REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Nova Scotia Energy Board

IN THE MATTER OF *The Public Utilities Act,* R.S.N.S. 1989, c.380, as amended

M11475

Cost of Service Study Process

NS Power

September 18, 2025

REDACTED

TABLE OF CONTENTS

1.0 INTRODUCTION 5
2.0 SUMMARY OF STAKEHOLDER PROCESS 7
3.0 SUMMARY OF COSS 10
3.1 The COSS Framework 10
3.2 Developments in the Company's Power System Impacting COS 11
4.0 OVERVIEW OF NS POWER'S PROPOSAL 12
5.0 PROPOSED CHANGES TO COSS 13
5.1 Classification of Generation Costs – SLF Methodology 13
5.2 FAM Related Cost Sub-Functionalization 14
5.3 Classification of Transmission Costs – Transmission 100 Percent to Demand 15
5.4 Transmission Links to Other Systems – No Sub-Functionalization of Interconnections 16
5.5 Removal of Distinction Between EHV and HV 17
5.6 Treatment of Battery in the COSS 17
5.7 Changes to Open Access Transmission Tarris (OATT) – Alignment of Bundled and Unbundled Service within the COSS 18
5.8 Radial to Generation 19
5.9 DSM Rider 19
5.10 Treatment of PHP as an Above-the-Line Customer 20
5.11 General Plant 21
5.12 Decarbonization Deferral Account (DDA) 21
6.0 PROPOSED MAINTENANCE OF STATUS QUO 23
6.1 Classification of Distribution Costs – Minimum System Study 23
6.2 Allocation of Demand Costs 24
6.3 Transmission Links to Other Systems – Maritime Link 24
6.4 Bulk Power Substations Refunctionalized from Transmission to Distribution 25
6.5 Distribution Sub-Functionalization and Refunctionalization 25
7.0 LINE LOSS STUDY 26
7.1 Network Components 26
7.1.1 Transmission Losses 26

7.1.2 Distribution Losses 26
7.1.3 Secondary Losses 27
7.1.4 Non-Technical Losses 27
8.0 RELIEF SOUGHT 29

LIST OF APPENDICES

Appendix 12A(1)	NS Power Cost of Service Model Run Iterations
Appendix 12A(2)	NS Power Data Request Responses
Appendix 12A(3)	NS Power Presentations and Slide Decks
Appendix 12A(4)	Jurisdictional Scans
Appendix 12A(5)	NS Power Memos
Appendix 12A(6)	Schedule and Summary of Formal Sessions
Appendix 12B	Elenchus Report
Appendix 12C	Line Loss Report

1.0 INTRODUCTION

In the Nova Scotia Energy Board's (NSEB, Board) decision on Nova Scotia Power Inc's NS Power, Company) general rate application (GRA), dated February 2, 2023, the Board approved a settlement agreement requiring NS Power to review and consider amendments to its Cost of Service Study (COSS) before its next GRA, or by December 31, 2025, whichever is sooner. The Board specifically noted that the updated study should reflect developments impacting NS Power's system since its last study in 2013, which are set out as follows:

> The Board concurs that the COSS and Line Loss Study should be updated to reflect a number of developments impacting NS Power's system since the 2013 COSS, including the greater integration of wind and other renewables, the addition of gas fired generation, the phasing-out of coal fired generation, the use of grid-scale battery storage, the increased reliance on purchased power agreements, and the integration of bundled and unbundled services, among other issues. All other cost allocation methodologies should be reviewed for their continued relevance and application. The Board concludes that this provision of the GRA Settlement Agreement is appropriate and directs the process and timeline as agreed to by the parties. The Board directs that semi-annual progress reports must be filed with the Board starting January 31, 2024.

On December 14, 2023, NS Power advised the (NSEB, Board) of its intention to apply for approval of the COSS. The Board requested Notices of Intervention and a Participant List was issued by the Board on January 11, 2024. All parties identified on the Participant List were afforded the opportunity to participate and engage in the stakeholder process. The filing of this application follows approximately a year of preliminary work with participating parties. The information contained within this application reflects the efforts of NS Power staff and its consultants, together with significant input from representatives and consultants for the Consumer Advocate (CA), the Small Business Advocate (SBA), the Industrial Group (IG), Port Hawkesbury Paper (PHP), the Municipal Electric Utilities (MEU), Solar Nova Scotia (SNS), and Energy Storage Canada (ESC). Although a consensus was not reached, the extensive participation of stakeholders has allowed NS Power to identify what it anticipates being the primary unresolved issues with the COSS. NS Power will focus on areas where the Company is proposing changes to the current COSS and the

sections of the COSS that NS Power anticipates will be the focus of discussions, based on the stakeholder engagement process.

NS Power is encouraged by the analysis and engagement to date. Many parts of the cost of service (COS) model continue to provide a robust and fair process for allocation of cost responsibility. These sections of the COSS have been identified, and the Company is proposing that the status quo can be maintained in these cases. However, where the opportunity for improvement was identified, NS Power had the opportunity to discuss potential refinements to the model with stakeholders and analyze those refinements. Informed by this process, NS Power is proposing several changes to the model that address the ongoing transformation of the grid and will better align the cost responsibility treatment in the bundled and unbundled services where appropriate. This will be discussed in more detail throughout this application.

In addition, NS Power has completed an updated Line Loss Study. Please refer to **Section 7.0** below.

2.0 SUMMARY OF STAKEHOLDER PROCESS

NS Power advised the Board in its December 14, 2023 letter of its intention for the COSS process to be consultative in nature, undertaken through a comprehensive stakeholder process facilitated by an expert COS consultant. NS Power retained Elenchus Research Associates Inc. (Elenchus) as its expert consultant at the end of 2023 and stakeholder sessions commenced on January 18, 2024.

Throughout 2024, technical conferences were held to provide in-depth educational sessions on the current COS treatment at NS Power and identify the primary issues to be resolved as part of the formal regulatory process, areas requiring additional examination, and areas of consensus and disagreement among parties. The goal of these sessions was for the Company to determine its view of the appropriate path forward, ideally with the development of a consensus agreement. This process culminated in two full-day Resolution Sessions. These sessions were held in person with stakeholders and expert consultants present, and NS Power retained Bruce Outhouse (KC) to mediate these sessions.

The process proved to be beneficial and has served to streamline COS discussions in the context of the GRA. NS Power received positive feedback from stakeholders concerning the opportunity for productive discussion and the breadth of information provided in this process. An extensive exchange of information took place through presentations, modelling, and data request (DR) cycles across the year. 67 models and iterations of models were prepared and are attached to this COSS as **Appendix 12A(1)**. In addition to that, stakeholders asked 152 DRs, these DRs and NS Power's responses to those DRs are appended to this COSS as **Appendix 12A(2)**. Other information provided included presentations and slide decks provided by NS Power and its consultants, appended as **Appendix 12A(3)**, jurisdictional scans, appended as **Appendix 12A(4)**, and memorandums, appended as **Appendix 12A(5)**.

At the outset of the COS process, NS Power provided a presentation to stakeholders with background information on COS, including a review of the general principles and purpose of a COSS and a detailed walkthrough of NS Power's current COSS, as approved in 2013 and utilized

in NS Power's 2023/2024 GRA. Following that, sessions were held regularly and focused either on more specific topics within the COSS, such as minimum system study or bundled vs unbundled service, or focused on review of models or a general discussion of positions. In total, 15 formal stakeholder sessions were held in 2024. In addition, numerous sessions were held with individual parties to gain better understanding of the positions, issues, and modeling requests of those parties. The schedule and a summary of the subject matter of each formal session is included **as Appendix 12A(6)**.

NS Power prepared and circulated a chart that was used to track the Company's position and the position of each stakeholder group as this process progressed. Stakeholder groups were encouraged to actively update and put forward a summary of their positions throughout this process. This tracking document was updated throughout the sessions and used extensively by NS Power when considering the COSS updates being proposed by the Company. This chart is not being provided with this COSS as it was an informational tool used to facilitate open discussion, but was not a binding representation of stakeholder positions and NS Power is not putting forward the positions of individual stakeholders within this application. However, NS Power did release a document outlining its updated positions and reasons for those updates following the Resolution Sessions. This document is included on pages 12-29 of **Appendix 12A(5)**. Please note that, since this document was released, further modifications were made which led to the final proposal of NS Power that is being put forward in this COSS.

The input and inquiries of the parties have served to:

- Identify areas of focus for this COSS;
- Provide direction with respect to prioritization of matters;
- Refine NS Power's position and proposed changes to the existing COSS; and
- Prompt a substantial exchange and analysis of information included in DR Responses and models.

Although consensus was not ultimately reached during the COSS process, the process and the work undertaken during it were instrumental in developing the consensus approach to this GRA.

3.0 SUMMARY OF COSS

3.1 The COSS Framework

NS Power is regulated according to a COSS framework, which is intended to provide for the fair allocation of utility costs among customer classes based on established principles of cost causation.[1]

The three sequential steps employed in the development of utility rates are:

(1) Determination of revenue requirement
(2) COSS development
(3) Rate design

The revenue requirement includes operating and maintenance expenses, depreciation, taxes, and financing, including return on common equity. The COSS serves to apportion these costs among rate classes. In a COSS, when possible, costs are assigned directly to the rate classes determined to be creating that cost. Costs within revenue requirement that are not directly assigned are allocated to rate classes by functionalizing, classifying and allocating those costs, as follows:

(1) Functionalization: Costs are functionalized as generation, transmission, distribution or retail.

(2) Classification: After costs are functionalized, they are classified as demand related, energy related, or customer related.

[1] Cost causation refers to determining which costs are directly attributable to specific customer classes based on how that customer class uses or consumes electricity. Consideration of cost causation principles ensures that, to the degree possible, the costs paid by customers are the costs actually caused by those customers.

(3) Allocation: After costs are classified, the demand, energy, and customer categories are allocated to the various customer classes based on their respective demands, energy use, customer number, or other established allocator base.

From a cost-of-service methodology perspective, NS Power's customers fall into two broad categories, Below-the-line (BTL) and Above-the-line (ATL). The COSS methodology subject to discussion in this section is concerned with the cost allocation to ATL classes only. Before costs are allocated to ATL classes, the total cost responsibility of this group must be determined by subtracting costs associated with serving BTL classes from the total revenue requirement of the Company.

3.2 Developments in the Company's Power System Impacting COS

As discussed by NS Power, the Board, and stakeholders throughout recent proceedings, including the Board decision issued in NS Power's last GRA, the electricity market in Nova Scotia is experiencing significant change. NS Power is required to transition off coal and is expecting a large amount of renewable electricity generation to come online within the coming years. This transition will fundamentally change the Company's resource portfolio and utilization of NS Power's assets, and therefore amendments to the COSS are required to recognize a broader diversity of generation coming online.

4.0 OVERVIEW OF NS POWER'S PROPOSAL

NS Power has identified several areas within the existing COSS that can be updated to respond to changes such as increased renewables being brought online, as was ordered by the Board, and to bring the COSS treatment for unbundled and bundled service into alignment. In addition to this, after extensive discussion and analysis of issues and suggestions raised by stakeholders, NS Power has identified some primary aspects of the COSS that do not require modification to respond to changes in the electricity market. Many of the COSS treatments utilized by NS Power are long standing. Although new assets are being brought online and existing assets are being phased out, this does not necessarily mean that change is required across the entire COSS. NS Power took a principled approach[2] to this review and focused on areas where change is justified, either because it responds to the changing electric system, or because it presents an enhancement or efficiency that improves upon the existing COSS. NS Power's proposal particularly takes into consideration factors such as cost causation[3] and alignment with other Canadian jurisdictions. In assessing options, NS Power sought solutions that best balance precision with practical considerations and transparency within the COSS model. NS Power's current COSS model is complex, and the need to simplify the COSS in select areas was identified as a factor to consider based on feedback received during the stakeholder process. NS Power also relied on the expertise of Elenchus in formulating this proposal, and the report prepared by Elenchus (Elenchus Report) is provided as **Appendix 12B**.

[2] A 'principled approach' refers to an approach that considers both the strengths and weaknesses of a method based on established factors, comparisons, and considerations, with the goal of reaching non-biased conclusions.
[3] Cost causation refers to the idea that those who cause costs should pay those costs.

5.0 PROPOSED CHANGES TO COSS

5.1 Classification of Generation Costs – SLF Methodology

NS Power's current approach to the classification of generation-related fixed costs (e.g. depreciation, financing) is first to classify environmental and fuel conversion-related capital costs to energy. After this, a secondary classification is done which classifies peaking assets 100 percent to demand, classifies wind assets using Effective Load Carrying Capability (ELCC), and categorizes the remaining generation assets using system load factor (SLF). The current approach is described in more detail within the Elenchus Report.[4]

NS Power is proposing that

- The initial classification of environmental and fuel conversion rate base capital 100 percent to energy will be eliminated.
- All generation assets will be classified to energy uniformly using the SLF.

This proposal represents a significant response to the changing system as many new, renewable generation assets are put on the system and old assets are being converted or retired to service the energy and demand requirements of the system and the generation resources are managed as part of an integrated system. This approach provides additional benefits by creating a simplified approach to the classification of generation costs moving forward, to allow for stakeholders and the Board to gain better insight into the operation of the COSS and to ensure that the COSS remains transparent as the pace of change and mix of resources in the generation fleet continues to increase in order to meet objectives for 2030 and beyond.

As part of achieving NS Power's 2030 decarbonization objectives, many of the projects being undertaken on the generation side will convert plants to alternate fuels to support the phase out of

[4] GRA Direct Evidence Appendix 12B, section 4.

coal-fired generation. In addition to this, NS Power's current approach to generation classification is complex. If a version of the current approach was maintained as new types of renewable generation assets come online, then the approach would need to become even more granular. This increased granularity would not necessarily create a more precise or effective COSS and inconsistencies within the COSS may begin to arise. One of the primary takeaways of NS Power from the stakeholder process was that the existing COSS is unnecessarily complex and that refinements could be made to streamline the COSS without sacrificing the validity of the COSS. Adopting the SLF method will achieve this goal and address many of the issues raised by stakeholders concerning treatment of generation related costs.

Classifying generation assets to energy and demand using SLF is an approach that is used and has been tested by other utilities throughout Canada, which was a factor in NS Power's selection of the SLF method. The primary justification for using this method, as described in more detail in the Elenchus Report,[5] is that SLF provides an allocator of both the demand and energy requirements to be served by the entire generation fleet. By applying this method consistently across the generation fleet, cost effects will average out across the fleet and result in an appropriate split of demand and energy costs, without becoming unnecessarily granular in analysis of generation and approach to generation resources. This proposed update recognizes that generation assets are designed and managed as part of an integrated system. Initial modelling also demonstrates that this approach will produce a similar cost effect to NS Power's current, disaggregated approach.

5.2 FAM Related Cost Sub-Functionalization

Going forward, all Fuel Adjustment Mechanism (FAM) related purchases that provide firm capacity will be classified between energy and demand based on SLF, while FAM related purchases that provide no capacity, such as non-firm imports, will be classified 100 percent to energy. This will align the Purchased Power Agreements (PPAs) providing firm capacity with the

[5] GRA Direct Evidence Appendix 12B, section 4

COSS treatment that is applicable to generation assets, while also recognizing that non-firm PPAs provide energy only.

5.3 Classification of Transmission Costs – Transmission 100 Percent to Demand

NS Power has used the SLF to classify transmission rate base and costs to energy and demand since Board's Decision on the Cost of Service proceeding in 1995 (NSPI864). In its decision the Board was of the view that classification of the COSS should reflect to some extent the intent of the asset.[6] The Board also found that transmission assets cannot be separated from generation and therefore whatever causal effects are in generation should also apply to transmission.[7] In addition, since generation has proven energy content, transmission should be classified to both energy and demand in conformity with generation.[8] To make a case for similar costing treatment of transmission to generation the Board drew on a real life example of the construction of a transmission line to a remote base-load plant location built to provide least-cost energy to a distant load centre.[9] More details on the current approach are provided with the Elenchus Report.[10]

With the transformation of the power system, investment in transmission is expected to be an increased driver of revenue requirement in future years. Meanwhile, classification of transmission based on SLF is becoming less relevant over time as dependence on coal fired generation located in Cape Breton is reduced, due to the requirement to phase out coal by 2030 and move to 80 percent renewable energy sales.

Transmission costs are primarily driven by demand, as they can be thought of as being incurred solely for the purpose of providing the required capacity on the system to respond to that demand. Jurisdictional scans completed by Elenchus have revealed that transmission costs are frequently

[6] NSPI 864 page 23.
[7] NSPI 864 page 20.
[8] NSPI 864 page 20.
[9] NSPI 864 page 17.
[10] GRA Direct Evidence Appendix 12B, section 5.

classified 100 percent to demand due to this fundamental link, and this is the predominant approach used by utilities throughout Canada. This Jurisdictional Scan is attached in **Appendix 12A(4)**.

Arguments in favour of transmission costs to energy generally make the most sense when they are attached to a radial type of system design, whereby transmission assets are intended to bring lower cost energy from distant generation sites. However, the shift from coal-fired to wind generation changes the nature of NS Power's system, moving it away from a radial type of system to a network type of system design intended to connect multiple renewable generation sites. With this type of system, transmission costs are less driven by the accumulated amount of transmitted energy and are better linked to the system peak loads.

NS Power is proposing that the approach to transmission costs should be changed from SLF to classification 100 percent to demand. Costs classified to demand are associated with the provision of capacity to serve customers based on system demand, which is the primary driver of NS Power's system costs and will increasingly be the driver of these costs as the system changes to accommodate more renewable energy. This change to NS Power's COSS will better reflect the purpose of transmission-based costs and place the Company into better alignment with industry practice in Canada.[11] In addition, this approach will better align the COSS with the treatment of transmission costs under the OATT, under which they are classified 100 percent to demand.

This change also means that allocation of transmission costs will proceed based on the allocation process for demand related costs, which NS Power proposes will continue to be based on 3CP, as described further in **Section 6.2** of this application.

5.4 Transmission Links to Other Systems – No Sub-Functionalization of Interconnections

NS Power proposes that transmission links to other systems, such as interties with the grids of other provinces, should generally be functionalized 100 percent to transmission and classified 100

[11] GRA Direct Evidence Appendix 12B, section 5.

percent demand, consistent with NS Power's proposals regarding other transmission. This proposed treatment does not have an immediate impact on the outcomes of the COSS, as this category of asset does not currently exist within rate base. The NB Intertie Application that is currently before the Board has not yet been approved, but the proposal for the Intertie is that it will fall under a new company outside of NS Power, so that rate base impacts will be contained within that new entity and not within NS Power. Therefore, the NB Intertie would not fall directly within NS Power's revenue requirement at this time, and the proposed treatment would apply only to future assets and could be the subject of future review by the Board and stakeholders, particularly given that this asset is not expected to be in service until 2028.

5.5 Removal of Distinction Between EHV and HV

NS Power proposes that the distinction between Extra High Voltage (EHV) and High Voltage (HV) within the current COSS model be removed and replaced with a single sub-function for EHV and HV, with the allocators for these categories also being combined. This approach will simplify NS Power's approach to sub-functionalization and allocation of EHV and HV. In addition to this, NS Power's system is integrated, so there is no real separation between the two systems and this distinction within the COSS is not supported moving forward. Elenchus discusses the justification for this change further in the Elenchus Report, which outlines the use of this approach in other Canadian jurisdictions as well as the reasons for moving away from this distinction.[12] This change is also consistent with the OATT methodology.

5.6 Treatment of Battery in the COSS

NS Power is in the process of building battery storage that is presently functionalized to transmission. However, it was identified that most participating stakeholders were of the view that these battery assets will primarily serve the purpose of supporting delivery of energy and capacity and therefore should likely be functionalized to generation. Therefore, NS Power proposed that

[12] GRA Direct Evidence Appendix 12B, section 5.

the COSS design should provide for battery sub-functions within each service area of generation, transmission and distribution. Battery storage units would then be looked at on a case-by-case basis and their costs would be functionalized to the area the asset is primarily supporting (recognizing that the asset may have benefits in other functional areas as well). For the grid scale batteries that are currently being built, these assets will primarily serve generation, so they are proposed to be functionalized to generation and be classified based on SLF.

5.7 Changes to Open Access Transmission Tarris (OATT) – Alignment of Bundled and Unbundled Service within the COSS

Due to methodological differences in how rates are set for transmission service in the unbundled market under the OATT and bundled market under the COSS, customers pay different amounts for the same transmission service in these two markets. This is an unequitable service situation which creates cost bias in customers' choice of energy service providers and therefore leads to inefficient market design.

The primary reason for this pricing difference is the differential between the capital-related cost requirement of transmission assets, which under the OATT are determined using a formulaic approach[13] whereas under the COSS they are taken directly from the Company's accounting records.

Two other reasons behind the pricing differences of transmission services in these two markets, identified for the purpose of this filing, are different approaches to:

- Classification of transmission costs: under the OATT they are classified 100 percent to demand while under the COSS they are classified to demand and energy based on SLF

[13] Depreciation costs are determined as a product of average depreciation rate and gross plant value. The carrying charges of tax, interest and return are determined as a product of the Company's weighed average cost of capital (WACC) and transmission rate base.

- Determination of usage for rate calculations: under the OATT the transmission rates are a function of historic usage while under the COSS they are a function of forecasted test year usage.

To align more closely cost of transmissions service between the bundled and unbundled services, NS Power proposes that:

- Transmission revenue requirement applicable under the OATT be set the same as under the Cost of Service.
- Transmission costs under the COSS be classified 100 precent to demand.
- Transmission usage used in OATT rate calculations reflect forecasted test year usage.

5.8 Radial to Generation

NS Power proposes that radial-to-generation assets, as defined under the OATT, be re-functionalized from transmission to generation in the COSS. This change will create a consistent treatment of these assets under the transmission pricing methodologies in the bundled and unbundled markets in Nova Scotia. It will also methodologically align NS Power's COSS with those of many North American utilities and the FERC's pro forma OATT design which provided the foundation for NS Power's OATT. This is the appropriate change to make from a cost causation perspective, as investment in radial-to-generation assets is supplementary to the generation function and therefore functionally belongs to the generation service area. Please refer to Section 4.1.3 of the Elenchus Report for further discussion of this subject matter.

5.9 DSM Rider

NS Power is proposing to amend the allocation of the Demand Side Management (DSM) Rider. Currently, the DSM Rider is allocated as 75 percent to the cost of programs undertaken for the rate class, with the remaining 25 percent allocated to the system benefit of the programs. Based on stakeholder feedback, NS Power is proposing to remove the allocation to system benefit, so that

100 percent of DSM Costs will be allocated to classes in accordance with program spending. This will more accurately align cost responsibility with the direct beneficiaries of DSM program spending. The 25 percent allocation to system benefit that was used previously was an arbitrary number, as discussed in NS Power's response to CA DR-87, which includes an analysis demonstrating that very little system benefit is provided by the DSM Rider. The change of allocation to remove system benefit, and allocation of the DSM Rider 100 percent to program costs, will also serve to place NS Power in better alignment with other jurisdictions and allow for simplification of the COS treatment of these costs. This is also described in more detail within the Elenchus Report.[14]

5.10 Treatment of PHP as an Above-the-Line Customer

Due to PHP's size, unique operating characteristics, and the anticipated continued provision of Active Demand Control (ADC) service to NS Power, PHP has been modeled in its own ATL rate class.

For the test years (2026 and 2027), the COS has been prepared based on the following PHP load characteristics, which are also reflected in the Base Cost of Fuel (BCF) model:

- Firm load of 8 MW at the three coincident peaks (3CP) in December, January, and February;
- Total load (firm plus interruptible) of 65 MW at the 3CP; and
- PHP's energy is set on PHP forecast usage net of forecast supply from the PHP Goose Harbour Lake Wind Farm.

[14] GRA Direct Evidence Appendix 12B, section 7.

5.11 General Plant

NS Power is proposing that the treatment of General Plant be refined to more consistently allocate General Plant with a clear and identifiable function. General Plant that is found to have a strong relationship with a category, will be allocated to that specific category. The analysis would only consider projects above one million dollars, based on the relative materiality and distinguishability of these projects. The proposed approach of NS Power is described in more detail in the memo on general plant that is included on pages 29-31 within **Appendix 12A(5)** and is also reviewed within the Elenchus Report.[15] In addition to the approach described in this section and within the memo on General Plant that was released to stakeholders, NS Power also proposes that certain General Plant costs can be appropriately allocated across two categories using a 'dual allocation' approach.

For example, vehicle costs are attributable to transmission and distribution far more than generation and so the utility proposes that these costs be allocated between transmission and distribution. The portion of costs to be allocated between each function would be determined by using allocators such as OM&G and rate base.

5.12 Decarbonization Deferral Account (DDA)

As a result of federal and provincial legislation regarding decarbonization, NS Power is required to phase out coal generation, which will include addressing associated marine unloading and fuel delivery facilities, by 2030. NS Power has not fully recovered its investment in the assets it expects to retire or the costs it will incur to decommission these facilities. In order to recover these energy transition costs in a more affordable manner, NS Power applied to the Board to transfer these costs to the DDA. The Board issued its Order approving the DDA on May 21, 2024. The DDA is a rate stabilization tool, and NS Power proposes that it be classified and allocated in the same manner as other rate stabilization tools. The current COSS approach to rate stabilization tools is to use current rate base to classify the associated costs and allocate those based on the usage applicable to the

[15] GRA Direct Evidence Appendix 12B, Section 7

service to which it was classified. The current Board-approved DDA COSS treatment is the appropriate scenario to consider as part of this COSS proceeding, and it would be premature to speculate on how the DDA scope could change in the future. Any changes to the scope of the DDA would require regulatory approval and the resulting COSS implications would be best addressed in that proceeding, or subsequently. This is discussed in more detail in the written response on this topic provided by NS Power to stakeholders on November 1, 2024, included within **Appendix 12A(5)** pages 6-11.

6.0 PROPOSED MAINTENANCE OF STATUS QUO

Through the detailed stakeholder sessions, NS Power and stakeholders comprehensively reviewed each component of the current COSS. Through this review, NS Power identified areas of interest to stakeholders and where stakeholders may have alternative proposed approaches to the treatment within COSS. NS Power has outlined these areas in the below sections and provided support for the Company's position that the maintenance of status quo is appropriate.

6.1 Classification of Distribution Costs – Minimum System Study

NS Power currently uses Minimum System Study to classify distribution costs and proposes that continued use of minimum system study to classify distribution costs between customer and demand is appropriate. This is supported by the Concentric Minimum System Study that was produced as part of the previous GRA Proceeding.[16] Using this approach, the minimum system cost is classified to customer and the difference between the minimum system cost and the peak system cost is classified to demand.

Minimum System Studies or Zero-Intercept Studies are the norm in Canada. The concept of the minimum system study is that a substantial portion of distribution costs are driven by the build-out of the system to reach each customer, regardless of the customer's consumption or demand. The allocation of costs by customer count reflects the system build-out costs caused by each rate class. The Elenchus Report provides a detailed and comprehensive discussion of the principles behind Minimum System Study and also explores alternative approaches to the classification of distribution costs in comparison to Minimum System Study. Elenchus' findings are supportive of continued use of Minimum System Study by NS Power.[17]

[16] M10431 2022-2024 GRA Application, Appendix 11A.
[17] GRA Direct Evidence Appendix 12B, section 6.2.

6.2 Allocation of Demand Costs

Allocators are used to determine cost responsibility. As noted above, costs classified to demand are associated with the cost of providing required capacity to serve customers. For this reason, looking at the drivers of system peaks is the primary factor to consider when determining cost causation, which is one of the considerations that goes into the approach to allocating demand costs in a manner that reflects cost responsibility. The second factor that is looked at when determining the allocation of demand costs is volatility, which is generally controlled by looking at a number of system peaks rather than a single peak event.

NS Power currently utilizes a fixed 3CP approach. NS Power is a winter peaking utility, so it looks to the top system peak in each of the months of December, January, and February, which are generally the coldest months in the province, to determine its allocation of demand costs. NS Power investigated several other potential approaches to this but determined that the current approach continues to best reflect cost causation while also balancing volatility in allocation of costs year over year by assessing cost causation across the three coldest months. The analysis conducted by NS Power is demonstrated by the data included in its response to DR-88.

6.3 Transmission Links to Other Systems – Maritime Link

The current approach to functionalization of the Maritime Link (ML) between transmission and generation is to functionalize all costs associated with purchases from the ML to generation, as transmission costs incurred as part of receiving this energy are relatively minor and not expressly singled out in the purchase price. As part of the stakeholder process, NS Power considered whether it would be appropriate to functionalize a portion of the assessment costs associated with the ML to transmission to account for this. However, following the analysis conducted by NS Power, it appears that the current approach to functionalize ML costs 100 percent to generation continues to be supported. Although some purchases associated with ML may have transmission components built into the cost of the purchased power, it would be challenging to determine the appropriate portion of these costs to functionalize to transmission, as this is very much a secondary function.

The primary purpose of the ML is to obtain base block and supplemental block energy, so the maintenance of status quo for functionalization of this asset remains an appropriate approach. This treatment was confirmed within the Base Cost of Fuel Proceeding for 2017-2019 (M07348). No other purchased power has a portion of its costs functionalized to transmission. It is acknowledged that the secondary benefit of ML is a connection to North America, and a portion of the costs are classified to demand through the SLF.

6.4 Bulk Power Substations Refunctionalized from Transmission to Distribution

Consistent with the findings from stakeholder consultations on the deferred project #9 "Transmission to Distribution Rate Base Adjustment" from the 2013 COSS decision, bulk power substation (BPS) costs should continue to be functionalized to distribution. For as long as these investments are not reflected in the distribution-related uniform system of accounts the current practice of transmission to distribution rate base adjustment needs to continue.[18]

6.5 Distribution Sub-Functionalization and Refunctionalization

NS Power suggests that distribution should continue to be sub-functionalized by voltage as currently designed. Such treatment is consistent with the principle of cost causation and fairness in allocation of costs where customers are only responsible for their share in the equipment they use and line losses they incur. This approach was upheld by the Board in its 2013 COSS decision, subject to the results of a Distribution Survey. The results of that survey were submitted in the Concentric Report in the 2022-2024 GRA.[19]

[18] NS Power's Report, Feb. 9, 2015.
[19] M10431 2022-2024 GRA Application, Appendix 11A.

7.0 LINE LOSS STUDY

The purpose of this project was to update NS Power's loss allocation methodology, leveraging advancements in system modelling and data acquisition from AMI. NS Power retained BBA as an expert consultant to assist with this process and complete the requisite analysis. The report prepared by BBA (Line Loss Report) is provided as **Appendix 12C**. The revised methodology improves accuracy and transparency in allocating energy and demand losses across customer classes.

7.1 Network Components

The study evaluated four primary network components – Transmission, Distribution, Secondary and Non-Technical losses. Separate evaluations were necessary to account for the use of different modelling systems, varying modelling capabilities, and distinct data sources for each component. Modelling each component independently enabled the allocation of losses to customer classes based on their proportionate use of each network segment.

7.1.1 Transmission Losses

Transmission losses were computed using detailed simulations with the PSS/e modelling software, incorporating hourly (8760) SCADA measurements and system configuration for the year 2023. The total transmission system energy losses, as well as the demand losses at peak load, were calculated directly from the results of these simulations.

7.1.2 Distribution Losses

Distribution losses were modelled using CYME Power Engineering Software, leveraging GIS data, asset attribute records, and metering data from AMI and MV90 systems. Demand losses were calculated directly for all 174 distribution networks, using a 2023 peak load model. A sensitivity analysis was performed to determine the impact of incremental changes of coincident demand to

total demand losses for each customer class. The results of the sensitivity analysis were used to allocate the total distribution demand losses to customer classes.

Annual distribution energy losses were calculated using an industry-standard formula that resulted in a loss factor of 31.6 percent, where loss factor is the ratio of average losses to peak demand losses. This loss factor was validated by performing detailed hourly CYME simulations for a sample of seven distribution networks.

7.1.3 Secondary Losses

Prior to this Line Loss Study, NS Power did not have the capability to model secondary networks. To advance the line loss calculations, the CYME low-voltage secondary distribution module was purchased.

Secondary demand losses were calculated using typical secondary models by customer type, combining meter data, GIS data, and standard equipment and conductor specifications. Typical secondary models were developed by service configuration (overhead, padmount, vault) and customer type (residential urban/suburban/rural, commercial, industrial). Secondary demand losses were allocated to each customer class based on the proportion of each typical secondary model that represents the total class.

Secondary energy losses were calculated using an industry standard formula to determine loss factor, similar to the distribution energy loss calculation.

7.1.4 Non-Technical Losses

Non-technical losses are used to account for theft, fraud, and errors in the modelling of technical losses.

As a reference point, BBA initially adopted an industry benchmark of 1.2 percent for non-technical losses. This value was then adjusted to 0.9 percent based on refined modelling results.

Non-technical demand losses were estimated based on the ratio of technical demand to energy losses by class and adjusted to align with total system coincident demand. The average class non-technical demand loss is 2.3 percent.

8.0 RELIEF SOUGHT

NS Power respectfully requests the Board:

(1) Approve changes to the current COSS as set out **Appendix 12A** and the proposed COSS model filed as **SR-01 Attachment 2** to the GRA Proceeding to which this COSS is appended.

(2) With respect to all other aspects of the existing COSS, confirm that the existing methodology employed is appropriate and should be maintained.

This filing seeks to give the Board and interested parties a complete record of activity over the past year. NS Power looks forward to the continued constructive engagement of all intervenors.

	Exhibit	Reference Cells	Modification
1. NSP Positions	All changes in models 2-5 (Some models require new rows so reference cells in the combined model may be a few cells lower than what is noted below. All changes are highlighted.)		
2. Intermediate Generation	BCF File – Rate Base Classification	G3:I3, A8:D15, A43, D43	Intermediate Generation split out from Steam and capacity factor applied to intermediate
	Input Tab	J12:K14, B16:K19, D38:K39, B91:D92, B224:D224, B259:K259, B572:D572	Intermediate Generation split out from Steam and Steam adjusted down. Intermediate Capacity Factor added
	Exh 2	Rows 14, 65	Intermediate Steam added
	Exh 2a	Rows 17, 40	Intermediate Steam added
	Exh 2b	Rows 17, 40	Intermediate Steam added
	Exh 3	Rows 17, 40, 145, 168	Intermediate Steam added
	Exh 4	Rows 27, 71	Intermediate Steam added
	Exh 5	Rows 22, 34, 213	Intermediate Steam added
	Exh 6	Rows 25, 147	Intermediate Steam added
	Exh 6d	Rows 17, 69	Intermediate Steam added
	Exh 7	Row 30	BUTU Adjustment
3. 100% Transmission Demand	Exh 2b	F52:F101	Further classifications of Transmission removed so all transmission remains in "Demand Plant"
	Exh 3	D179:M221	Allocations of transmission energy plant zeroed-out (avoid #DIV/0!)
	Exh 5	D64:E83	Demand expenses formulae revised to receive full classification, energy formulae revised to receive no classification
	Exh 6	D172:M194	Allocations of transmission energy expenses zeroed-out (avoid #DIV/0!)

	Exhibit	Reference Cells	Modification
	Exh 6d	D78:M82	Allocations of transmission general property zeroed-out (avoid #DIV/0!)
4. PHP as separate ATL class	BCF File – BCF Allocation	Rows 23 and 34	Move volumes and allocations to ATL
	BCF File – Monthly Fuel Cost Allocation	Rows 57, 72, 86, 103, 117, 130	Add PHP to ATL calculations
	BCF File – Monthly Energy Allocators	Rows 13, 29	Add PHP to ATL calculations
	BCF File – Data Inputs	Rows 46, 77, 92, 100, 118, 127	Move volumes to ATL
	Input Data	D217, D231:D239, D312:E322, D337:D345, D374:D377, D399:F399, D487:F487, D522, D534	Update values with outputs of the BCF file and move values from BTL to ATL
	Input Data Two	Rows 18, 24, 36, 42, 59, 72, 77, 81, 100, 105, 109	Move volumes to ATL
	Exh 5	D14:E20	Update values with outputs of the BCF file
	Exh 6	Rows 17-23, 42, 137-143, 160	Update values with outputs of the BCF file and assign Interruptible credit to PHP
	Exh 7	C30:E30	Adjust BUTU revenues with output of BCF file
	Exh 8a	Column K	Enter missing allocation values for PHP
5. Classify grid scale storage by ELCC	Input Tab	Rows 39, 40, 566	Batteries CWIP separated from Transmission Plant CWIP & add battery ELCC
	Exh 2	Rows 25, 27	Add Batteries subfunction and update subtotal calculations

	Exhibit	Reference Cells	Modification
	Exh 2a	E54:E66, E85:E99, Rows 103 & 105	Add Batteries subfunction, update subtotal calculations, and revise HV/EHV calculations to account for batteries
	Exh 2b	Rows 106 & 108	Add Batteries subfunction and update subtotal calculations
	Exh 3	Rows 101, 103, 229, 231	Add Batteries subfunction and update subtotal calculations
	Exh 4 Detail	D142:G142	Include battery net plant to transmission in functionalization of grants in lieu of taxes
	Exh 5	B99:F118	Add Batteries subfunction and update subtotal calculations
	Exh 6	B94:M110 & B215:M230	Add Batteries subfunction, update allocation factors, and update subtotal calculations
	Exh 8b	Rows 39, 40, 57, 58	Add new demand/energy allocation factors for batteries
6. EHV/HV	Exh 8a	J24&J33	Subtract EHV volumes from Large Industrial 3CP and loss-adjusted MWh volumes that are used to allocate HV costs
7. No Primary-Secondary Sub-functionalization	Exh 3c	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 3e	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 3g	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 8a	Rows 12, 49, 52, 56, 68	Set secondary allocators equal to primary allocators

	Exhibit	Reference Cells	Modification
8. Services on same basis as Meters	Exh 3i	Column G	New column added in Meter tab to allocate services on same basis as meters
	Exh 3a	D39:M39	Replace allocated rate base with allocations from Exh 3i. This indirectly impacts the allocation of OM&A
9. Allocate Services by Unweighted Customer Count	Input Data	D505:D512	Replace weighting factors with "1" for each class
10. a. Classify Steam Generation by Capacity Factor	BCF File-Rate Base Classification	G5:I6, F38	Classify Steam by weighted average capacity factor. Initial classification of Environmental & Fuel Conversion to 100% is maintained
	Input Tab	D565	Add Steam capacity factor
	Exh 2b	F16:G16, F38:G38	Classify Steam by steam capacity factor
	Exh 4 Detail	H184	Adjust Profit/Loss to balance total costs and revenues
	Exh 5	Rows 14, 15, 20	Update values with outputs of the BCF file
	Exh 6	Rows 17, 18, 23, 138, 139	Update values with outputs of the BCF file
10. b. Reclassify SLF Generation by Capacity Factor	BCF File-Rate Base Classification	G5:I6, F38, F39, F41	Classify Steam, Hydro and LM6000 by weighted average capacity factor. Initial classification of Environmental & Fuel Conversion to 100% is maintained
	BCF File – BCF Allocation	O28	Change Maritime Link classification to weighted average capacity factor
	Input Data	D562, D565, D566	Update values from BCF file and add weighted average capacity factors
	Exh 2b	F16:G17, F19:G19, F38:F39, F41	Revise classification factor to average capacity factor

	Exhibit	Reference Cells	Modification
	Exh 4 Detail	H184	Adjust Profit/Loss to balance total costs and revenues
	Exh 5	Rows 14, 15, 16, 20	Update values with outputs of the BCF file
	Exh 6	Rows 17, 18, 19, 23, 138, 139, 140	Update values with outputs of the BCF file
11. Municipal Under OATT	BCF File – Data Inputs	Rows 69, 92, 118	Add volumes of Municipal customers that take service under OATT
	BCF File – BCF Allocation	Row 23	Update calculation to include other municipalities
	BCF File – Monthly Fuel Cost Allocation	Rows 57, 72, 86, 103, 117, 130	Update calculation to include other municipalities
	BCF File – Monthly Energy Allocators	Rows 13, 29	Update calculation to include other municipalities
	Input Data	D390:D393, D403, F487:G487	Remove OATT costs/revenues & update characteristics of municipal customers
	Exh 8a	Column K	Update characteristics of municipal customers
	Exh 9b	K16	Include volumes of distribution-connected municipalities

Request for COSS Model Runs:

Run #	NSP Position	Model Run Description
1	Yes	NSP's positions in aggregate. This model includes the changes from model runs #2-5 below.
2	Yes	New Intermediate Generation sub-function classified to demand and energy by weighted-average capacity factor (Issue #1a)
3	Yes	Transmission classified 100% as demand (Issue #1a(i))
4	Yes	PHP as a separate above the line rate class (Issue #7).
5	Yes	Classify grid scale storage by ELCC factor
6		Sub-functionalize transmission into EHV and HV
7		No sub-functionalization of poles and conductors between Primary and Secondary
8		Allocate services on the same basis as meters
9		Allocate services with the customer count allocator
10a		Classify Steam generation by capacity factor instead of SLF
10b		Classify all generation that is currently classified by SLF by capacity factor
11		MEUs are included as an above the line rate class as "Municipal OATT"

Notes on COSS Model Runs:

All changes to the model cells are denoted with orange highlighting.

Model runs 1, 2, 4, 10a, 10b, and 11 require updates to the Base Cost Fuel ("BCF") file that is an input into the COSS. Revised versions of the BCF file are also submitted with the COSS model runs. Revisions to the BCF have minor impacts to the overall costs allocated between ATL and BTL classes, which creates a mismatch between total ATL revenues and ATL costs in the COSS. This mismatch is addressed by adjusting the total Profit/Loss figure of BTL classes that used to reduce the Profit/Loss allocated to ATL classes (Exh 4 Detail cell H184). In models 1, 4, and 11 the mismatch as attributed to the new rate class.

COSS Model Run #1, NSP Positions:

This model represents NSP's positions and includes all changes from model runs 2, 3, 4, and 5.

COSS Model Run #2, New Intermediate Generation Sub-Function:

New balances are included in the Input Data tab for intermediate generation (Tufts Cove 1,2, and 3). An explanation of the selection of the three Tufts Cove units is provided in PHP DR-1. All intermediate generation is currently within the Steam generation subfunction so the intermediate generation amounts are subtracted from Steam Plant. The Intermediate Generation capacity factor

is calculated as the weighted average capacity factor (weighted by net plant) of the three Tufts Cove units.

The current and proposed classification of the Tufts Cove units is summarized in the following table.

Intermediate Generation Unit	Net Book Value	Current Classification	New Classification
Tufts Cove 1	$16.5M	46.3% Energy 53.7% Demand	5.3% Energy 94.7% Demand
Tufts Cove 2	$28.8M	46.3% Energy 53.7% Demand	18.4% Energy 81.6% Demand
Tufts Cove 3	$46.3M	46.3% Energy 53.7% Demand	20.7% Energy 79.3% Demand
Average		**46.3% Energy 53.7% Demand**	**17.1% Demand 82.9% Energy**

COSS Model Run #3, Transmission Classified as 100% Demand:

The classification of a portion of Transmission as Energy is removed so all rate base and costs are classified as 100% Demand. The sections of the COSS that allocate Energy-related Transmission to rate classes (Exh 3 & 6) are zeroed out to avoid cell reference errors.

COSS Model Run #4, PHP is Included as a Separate Class:

This model follows the same methodology as PHP DR-12.

COSS Model Run #5, Classify Grid Scale Storage by ELCC Factor:

Grid Scale Storage is not yet operational and is fully CWIP in 2023 so there are no operating and maintenance expenses or depreciation functionalized to batteries. Only Interest, Return (Profit/Loss), and Corporate Taxes are functionalized to batters. The 62% ELCC is provided in CA DR-22.

COSS Model Run #6, Transmission Subfunctionalized to EHV and HV:

The current COSS includes subfunctionalization between EHV and HV but both subfunctions use the same allocators. The allocators applicable to the HV subfunction have been revised to exclude volumes of customers connected to EHV.

COSS Model Run #7, No Subfunctionalization of Poles and Conductors between Primary and Secondary:

Costs are no longer subfunctionlized between primary and secondary. Within this COSS model run all relevant distribution costs are included in the primary functionalization. Secondary allocators are set equal to primary allocators.

COSS Model Run #8, Services Allocated on the Same Basis as Meters:

A new allocator is calculated based on the allocation of meter costs. This allocator is used to allocate services.

COSS Model Run #9, Services Allocated with the Customer Count Allocator:

Services costs are allocated using the unweighted customer count allocator by removing weighting factors.

COSS Model Run #10a, All Steam Generation Classified by Capacity Factor:

All Steam generation is classified by a weighted average capacity factor (weighted by net plant). The weighted average capacity factor is 24.49%.

COSS Model Run #10b, All Generation Currently Classified by SLF is Classified by Capacity Factor:

All generation that is currently classified by the SLF is classified with a weighted average capacity factor (weighted by net plant). This includes Steam, Hydro, LM6000, and Maritime Link. The classification of Biomass is indirectly impacted as it is classified by the weighted average classification of all generation.

COSS Model Run #11, MEUs Included as an ATL "Municipal OATT" Rate Class:

This model run was prepared to provide context to the MEUs for how costs would be allocated in the COSS instead of the OATT. A new "OATT Municipal" class is included in the BCF and COSS, replacing ELIADC. The loads include consumption and demand of Antigonish, Berwick, Mahone Bay, and Riverport, less volumes from Ellershouse. Antigonish and Riverport loads (again net of Ellershouse) is included in distribution primary.

Model Run Details:

Details of the changes mate in each model are provided below.

	Exhibit	Reference Cells	Modification
1. NSP Positions	All changes in models 2-5 (Some models require new rows so reference cells in the combined model may be a few cells lower than what is noted below. All changes are highlighted.)		
2. Intermediate Generation	BCF File – Rate Base Classification	G3:I3, A8:D15, A43, D43	Intermediate Generation split out from Steam and capacity factor applied to intermediate
	Input Tab	J12:K14, B16:K19, D38:K39, B91:D92, B224:D224, B259:K259, B572:D572	Intermediate Generation split out from Steam and Steam adjusted down. Intermediate Capacity Factor added
	Exh 2	Rows 14, 65	Intermediate Steam added
	Exh 2a	Rows 17, 40	Intermediate Steam added
	Exh 2b	Rows 17, 40	Intermediate Steam added
	Exh 3	Rows 17, 40, 145, 168	Intermediate Steam added
	Exh 4	Rows 27, 71	Intermediate Steam added
	Exh 5	Rows 22, 34, 213	Intermediate Steam added
	Exh 6	Rows 25, 147	Intermediate Steam added
	Exh 6d	Rows 17, 69	Intermediate Steam added
	Exh 7	Row 30	BUTU Adjustment
3. 100% Transmission Demand	Exh 2b	F52:F101	Further classifications of Transmission removed so all transmission remains in "Demand Plant"

	Exh 3	D179:M221	Allocations of transmission energy plant zeroed-out (avoid #DIV/0!)
	Exh 5	D64:E83	Demand expenses formulae revised to receive full classification, energy formulae revised to receive no classification
	Exh 6	D172:M194	Allocations of transmission energy expenses zeroed-out (avoid #DIV/0!)
	Exh 6d	D78:M82	Allocations of transmission general property zeroed-out (avoid #DIV/0!)
4. PHP as separate ATL class	BCF File – BCF Allocation	Rows 23 and 34	Move volumes and allocations to ATL
	BCF File – Monthly Fuel Cost Allocation	Rows 57, 72, 86, 103, 117, 130	Add PHP to ATL calculations
	BCF File – Monthly Energy Allocators	Rows 13, 29	Add PHP to ATL calculations
	BCF File – Data Inputs	Rows 46, 77, 92, 100, 118, 127	Move volumes to ATL
	Input Data	D217, D231:D239, D312:E322, D337:D345, D374:D377, D399:F399, D487:F487, D522, D534	Update values with outputs of the BCF file and move values from BTL to ATL
	Input Data Two	Rows 18, 24, 36, 42, 59, 72, 77, 81, 100, 105, 109	Move volumes to ATL
	Exh 5	D14:E20	Update values with outputs of the BCF file
	Exh 6	Rows 17-23, 42, 137-143, 160	Update values with outputs of the BCF file and assign Interruptible credit to PHP

	Exh 7	C30:E30	Adjust BUTU revenues with output of BCF file
	Exh 8a	Column K	Enter missing allocation values for PHP
5. Classify grid scale storage by ELCC	Input Tab	Rows 39, 40, 566	Batteries CWIP separated from Transmission Plant CWIP & add battery ELCC
	Exh 2	Rows 25, 27	Add Batteries subfunction and update subtotal calculations
	Exh 2a	E54:E66, E85:E99, Rows 103 & 105	Add Batteries subfunction, update subtotal calculations, and revise HV/EHV calculations to account for batteries
	Exh 2b	Rows 106 & 108	Add Batteries subfunction and update subtotal calculations
	Exh 3	Rows 101, 103, 229, 231	Add Batteries subfunction and update subtotal calculations
	Exh 4 Detail	D142:G142	Include battery net plant to transmission in functionalization of grants in lieu of taxes
	Exh 5	B99:F118	Add Batteries subfunction and update subtotal calculations
	Exh 6	B94:M110 & B215:M230	Add Batteries subfunction, update allocation factors, and update subtotal calculations
	Exh 8b	Rows 39, 40, 57, 58	Add new demand/energy allocation factors for batteries
6. EHV/HV	Exh 8a	J24&J33	Subtract EHV volumes from Large Industrial 3CP and loss-adjusted MWh volumes that are used to allocate HV costs
7. No Primary-Secondary Sub-functionalization	Exh 3c	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 3e	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 3g	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 8a	Rows 12, 49, 52, 56, 68	Set secondary allocators equal to primary allocators

8. Services on same basis as Meters	Exh 3i	Column G	New column added in Meter tab to allocate services on same basis as meters
	Exh 3a	D39:M39	Replace allocated rate base with allocations from Exh 3i. This indirectly impacts the allocation of OM&A
9. Allocate Services by Unweighted Customer Count	Input Data	D505:D512	Replace weighting factors with "1" for each class
10. a. Classify Steam Generation by Capacity Factor	BCF File-Rate Base Classification	G5:I6, F38	Classify Steam by weighted average capacity factor. Initial classification of Environmental & Fuel Conversion to 100% is maintained
	Input Tab	D565	Add Steam capacity factor
	Exh 2b	F16:G16, F38:G38	Classify Steam by steam capacity factor
	Exh 4 Detail	H184	Adjust Profit/Loss to balance total costs and revenues
	Exh 5	Rows 14, 15, 20	Update values with outputs of the BCF file
	Exh 6	Rows 17, 18, 23, 138, 139	Update values with outputs of the BCF file
10. b. Reclassify SLF Generation by Capacity Factor	BCF File-Rate Base Classification	G5:I6, F38, F39, F41	Classify Steam, Hydro and LM6000 by weighted average capacity factor. Initial classification of Environmental & Fuel Conversion to 100% is maintained
	BCF File – BCF Allocation	O28	Change Maritime Link classification to weighted average capacity factor
	Input Data	D562, D565, D566	Update values from BCF file and add weighted average capacity factors
	Exh 2b	F16:G17, F19:G19, F38:F39, F41	Revise classification factor to average capacity factor
	Exh 4 Detail	H184	Adjust Profit/Loss to balance total costs and revenues
	Exh 5	Rows 14, 15, 16, 20	Update values with outputs of the BCF file

	Exh 6	Rows 17, 18, 19, 23, 138, 139, 140	Update values with outputs of the BCF file
11. Municipal OATT	BCF File – Data Inputs	Rows 69, 92, 118	Add volumes of Municipal customers that take service under OATT
	BCF File – BCF Allocation	Row 23	Update calculation to include other municipalities
	BCF File – Monthly Fuel Cost Allocation	Rows 57, 72, 86, 103, 117, 130	Update calculation to include other municipalities
	BCF File – Monthly Energy Allocators	Rows 13, 29	Update calculation to include other municipalities
	Input Data	D390:D393, D403, D474:D745, F487:G487	Remove OATT costs/revenues & update characteristics of municipal customers
	Exh 8a	Column K	Update characteristics of municipal customers
	Exh 8b	K170:L172	Adjust Municipal allocations
	Exh 9b	K16	Include volumes of distribution-connected municipalities

1

Request for COSS Model Runs:

Run #	NSP Position	Model Run Description
1	Yes	NSP's positions in aggregate. This model includes the changes from model runs #2-5 below.
2	Yes	New Intermediate Generation sub-function classified to demand and energy by weighted-average capacity factor (Issue #1a)
3	Yes	Transmission classified 100% as demand (Issue #1a(i))
4	Yes	PHP as a separate above the line rate class with total load treated as interruptible (Issue #7).
4c	Yes	PHP as a separate above the line rate class with first 9 MWs treated as firm.
5	Yes	Classify grid scale storage by ELCC factor
6		Sub-functionalize transmission into EHV and HV
7		No sub-functionalization of poles, conductors (including service lines) and transformers between Primary and Secondary.
8		Allocate services on the same basis as meters
9		Allocate services with the customer count allocator
10a		Classify Steam generation by capacity factor instead of SLF
10b		Classify all generation that is currently classified by SLF by capacity factor
10c		Classify all generation, that is currently classified by SLF, using operating factors.
10d		Classify all generation using operating factors.
11		OATT MEUs are placed above-the-line (ATL) as a separate rate class referred to as a "Municipal OATT" class.
12a		Basic Customer Method (demand)
12b		Basic Customer Method (distribution system load factor classification)
14a		Updated Fuel Costs
14b	Yes	Update Fuel Costs (NSP Positions)
15		Transmission clean import-enabling assets classified by SLF (remaining transmission classified 100% as demand)
16		Equivalent Peaker Method (applied to non-fuel costs only)

Notes on COSS Model Runs:

All changes to the model cells are denoted with orange highlighting.

Model runs 1, 2, 4, 10a, 10b, 10c, 10d, 11, 14a, and 14b require updates to the Base Cost Fuel ("BCF") file that is an input into the COSS. Revised versions of the BCF file are also submitted with the COSS model runs. Revisions to the BCF have minor impacts to the overall costs allocated between ATL and BTL classes, which creates a mismatch between total ATL revenues and ATL costs in the COSS. This mismatch is addressed by adjusting the total Profit/Loss figure of BTL

classes that used to reduce the Profit/Loss allocated to ATL classes (Exh 4 Detail cell H184). In models 1, 4, and 11 the mismatch as attributed to the new rate class.

COSS Model Run #1, NSP Positions:

This model represents NSP's positions and includes all changes from model runs 2, 3, 4, and 5.

COSS Model Run #2, New Intermediate Generation Sub-Function:

New balances are included in the Input Data tab for intermediate generation (Tufts Cove 1, 2, and 3 & Lingan 1, 3, and 4). All intermediate generation is currently within the Steam generation subfunction so, the intermediate generation amounts are subtracted from Steam Plant. Intermediate Generation capacity factors are calculated as the weighted average capacity factor (weighted by net plant) of the three Tufts Cove units and the three Lingan units, separately.

The current and proposed classification of the Tufts Cove and Lingan units is summarized in the following table.

Intermediate Generation Unit	Net Book Value	Current Classification (Further Classification)	New Classification (Further Classification)
Tufts Cove 1	$16.5M	53.7% Energy 46.3% Demand	17.1% Energy 82.9% Demand
Tufts Cove 2	$28.8M	53.7% Energy 46.3% Demand	17.1% Energy 82.9% Demand
Tufts Cove 3	$46.3M	53.7% Energy 46.3% Demand	17.1% Energy 82.9% Demand
Tufts Cove Average		**53.7% Energy 46.3% Demand**	**17.1% Energy 82.9% Demand**
Lingan 1-2[1]	$17.8M	53.7% Energy 46.3% Demand	21.1% Energy 78.9% Demand
Lingan 3-4	$114.3M	53.7% Energy 46.3% Demand	21.1% Energy 78.9% Demand
Average		**53.7% Energy 46.3% Demand**	**21.1% Energy 78.9% Demand**

[1] Lingan 2 New Classification is 58.8 percent Energy and 41.2 percent Demand

COSS Model Run #3, Transmission Classified as 100% Demand:

The classification of a portion of Transmission as Energy is removed so all rate base and costs are classified as 100% Demand. The sections of the COSS that allocate Energy-related Transmission to rate classes (Exh 3 & 6) are zeroed out to avoid cell reference errors.

COSS Model Run #4, PHP is Included as a Separate Class:

This model follows the same methodology as PHP DR-12. A variation to this model, with the first 9 MWs treated as firm load, has been labeled as 4c.

COSS Model Run #5, Classify Grid Scale Storage by ELCC Factor:

Grid Scale Storage is not yet operational and is fully CWIP in 2023 so there are no operating and maintenance expenses, or depreciation functionalized to batteries. Only Interest, Return (Profit/Loss), and Corporate Taxes are functionalized to batteries. The 62% ELCC is provided in CA DR-22.

COSS Model Run #6, Transmission Sub-functionalized to EHV and HV:

The current COSS includes sub-functionalization between EHV and HV but both subfunctions use the same allocators. The allocators applicable to the HV subfunction have been revised to exclude volumes of customers connected to EHV.

COSS Model Run #7, No Sub-functionalization of Poles and Conductors between Primary and Secondary:

Costs are no longer sub-functionalized between primary and secondary. Within this COSS model run all relevant distribution costs are included in the primary functionalization. Secondary allocators are set equal to primary allocators.

COSS Model Run #8, Services Allocated on the Same Basis as Meters:

A new allocator is calculated based on the allocation of meter costs. This allocator is used to allocate services.

COSS Model Run #9, Services Allocated with the Customer Count Allocator:
Services costs are allocated using the unweighted customer count allocator by removing weighting factors.

COSS Model Run #10a, All Steam Generation Classified by Capacity Factor:
All Steam generation is classified by a weighted average capacity factor (weighted by net plant).

COSS Model Run #10b, All Generation Currently Classified by SLF is Classified by Capacity Factor:
All generation that is currently classified by the SLF is classified with a weighted average capacity factor (weighted by net plant). This includes Steam, Hydro, LM6000, and Maritime Link. The classification of Biomass is indirectly impacted as it is classified by the weighted average classification of all generation.

COSS Model Run #10c, All Steam Generation Classified by Operating Factors:
All Steam generation is classified by a weighted average operating factor (weighted by net plant).

COSS Model Run #10d, All dispatchable Generation Classified by weighted-average Operating Factors grouped by steam, hydro, LM6000 and Gas Turbines:
All dispatchable generation is classified by Operating factors with a weighted average capacity factor (weighted by net plant), grouped by steam, hydro, LM6000 and Gas Turbines. The classification of Biomass is indirectly impacted as it is classified by the weighted average classification of all generation.

COSS Model Run #11, MEUs Included as an ATL "Municipal OATT" Rate Class:
This model run was prepared to provide context to the MEUs for how costs would be allocated in the COSS instead of the OATT. A new "OATT Municipal" class is included in the BCF and COSS, The loads include consumption and demand of Antigonish, Berwik, Mahone Bay, and Riverport, net of the bottom energy block supplied by direct deliveries (excludes surplus energy under "Spill)

from Ellershouse and top-up energy under the BUTU Tariff. Antigonish and Riverport loads (again net of Ellershouse) is included in distribution primary.

COSS Model Run #12a, Basic Customer Method (all Demand):

Distribution costs that were classified between demand and customer based on the minimum system method are now classified as demand, with two exceptions. Secondary pole costs that were classified as customer are split between demand and customer (50%/50% in this scenario). Transformer costs that were classified as demand are now split between network transformers (demand) and final line transformers (customer). NSP does not have reliable data on final line transformers so, 1/3 of overall transformers are classified as customer-related in this scenario.

COSS Model Run #12b, Basic Customer Method (Distribution SLF):

Distribution costs that were classified between demand and customer based on the minimum system method are now classified between demand and energy based on the distribution system load factor. The adjustments for secondary poles and line transformers described in Model Run #12a are continued in this run. Distribution system load factor is calculated by the same method as the overall SLF used for generation but excludes transmission volumes.

COSS Model Run #14a Updated Fuel Costs:

Fuel and purchase costs from the original BCF file are replaced with the 2023 updated test year fuel costs referred to as a "fuel cost refresh" in the 2023-2024 GRA proceeding. The updated test year costs are scaled on a monthly basis by the difference between updated and original volumes so the fuel and purchase costs reflect an approximation of updated costs at originally forecast volumes.

COSS Model Run #14b Updated Fuel Costs with NSP Positions:

This model run uses updated fuel costs, as described in model run #14a, with the NSP Positions model (model #1).

COSS Model Run #15 Transmission clean import-enabling assets classified by SLF:

This model functionalizes transmission costs associated with enabling clean imports and classifies these costs by the SLF, with remaining transmission costs classified 100% as demand. The model includes two summary tabs, one with variances between the scenario and the current COSS and one with variances between the scenario and Model #3 (Transmission Classified as 100% Demand).

COSS Model Run #16 Equivalent Peaker Method:

This model run classifies non-fuel generation costs using the equivalent peaker method. NSP does not build new CT or coal units so the cost per kW of capacity is based on Capital Costs for New Electricity Generating Plants from the U.S. Energy Information Administration. The share of each type of generation classified as demand is calculated based on the $/kW of a Combustion Turbine divided by the $/kW of other types of generation. The details of the calculation are provided in the BCF file.

Model Run Details:

Details of the changes mate in each model are provided below.

	Exhibit	Reference Cells	Modification
1. NSP Positions	All changes in models 2-5 (Some models require new rows so reference cells in the combined model may be a few cells lower than what is noted below. All changes are highlighted.)		
2. Intermediate Generation	BCF File – Rate Base Classification	G3:I4, A8:D19, A47:J48	Intermediate Generation split out from Steam and capacity factor applied to Tufts Cove and Lingan
	Input Tab	J12:K14, B16:K23, D42:K43, B96:D97, B229:D230, B265:K266, B579:D580	Intermediate Generation split out from Steam and Steam adjusted down. Intermediate capacity factors added
	Exh 2	Rows 14-15, 66-67	Intermediate Steam added
	Exh 2a	Rows 17-18, 41-42	Intermediate Steam added

	Exhibit	Reference Cells	Modification
	Exh 2b	Rows 17-18, 41-42	Intermediate Steam added
	Exh 3	Rows 17-18, 41-42, 147-148, 171-172	Intermediate Steam added
	Exh 4	Rows 27-28, 72-73	Intermediate Steam added
	Exh 5	Rows 22-23, 35-36, 215-216	Intermediate Steam added
	Exh 6	Rows 25-26, 148-149	Intermediate Steam added
	Exh 6d	Rows 17-18, 70-71	Intermediate Steam added
	Exh 7	Row 30	BUTU Adjustment
3. 100% Transmission Demand	Exh 2b	F52:F101	Further classifications of Transmission removed so all transmission remains in "Demand Plant"
	Exh 3	D179:M221	Allocations of transmission energy plant zeroed-out (avoid #DIV/0!)
	Exh 5	D64:E83	Demand expenses formulae revised to receive full classification, energy formulae revised to receive no classification
	Exh 6	D172:M194	Allocations of transmission energy expenses zeroed-out (avoid #DIV/0!)
	Exh 6d	D78:M82	Allocations of transmission general property zeroed-out (avoid #DIV/0!)
4. PHP as separate ATL class	BCF File – BCF Allocation	Rows 23 and 34	Move volumes and allocations to ATL
	BCF File – Monthly Fuel Cost Allocation	Rows 57, 72, 86, 103, 117, 130	Add PHP to ATL calculations
	BCF File – Monthly Energy Allocators	Rows 13, 29	Add PHP to ATL calculations

	Exhibit	Reference Cells	Modification
	BCF File – Data Inputs	Rows 46, 77, 92, 100, 118, 127	Move volumes to ATL
	Input Data	D217, D231:D239, D312:E322, D337:D345, D374:D377, D399:F399, D487:F487, D522, D534	Update values with outputs of the BCF file and move values from BTL to ATL
	Input Data Two	Rows 18, 24, 36, 42, 59, 72, 77, 81, 100, 105, 109	Move volumes to ATL
	Exh 5	D14:E20	Update values with outputs of the BCF file
	Exh 6	Rows 17-23, 42, 137-143, 160	Update values with outputs of the BCF file and assign Interruptible credit to PHP
	Exh 7	C30:E30	Adjust BUTU revenues with output of BCF file
	Exh 8a	Column K	Enter missing allocation values for PHP
5. Classify grid scale storage by ELCC	Input Tab	Rows 39, 40, 566	Batteries CWIP separated from Transmission Plant CWIP & add battery ELCC
	Exh 2	Rows 25, 27	Add Batteries subfunction and update subtotal calculations
	Exh 2a	E54:E66, E85:E99, Rows 103 & 105	Add Batteries subfunction, update subtotal calculations, and revise HV/EHV calculations to account for batteries
	Exh 2b	Rows 106 & 108	Add Batteries subfunction and update subtotal calculations
	Exh 3	Rows 101, 103, 229, 231	Add Batteries subfunction and update subtotal calculations
	Exh 4 Detail	D142:G142	Include battery net plant to transmission in functionalization of grants in lieu of taxes
	Exh 5	B99:F118	Add Batteries subfunction and update subtotal calculations

	Exhibit	Reference Cells	Modification
	Exh 6	B94:M110 & B215:M230	Add Batteries subfunction, update allocation factors, and update subtotal calculations
	Exh 8b	Rows 39, 40, 57, 58	Add new demand/energy allocation factors for batteries
6. EHV/HV	Exh 8a	J24&J33	Subtract EHV volumes from Large Industrial 3CP and loss-adjusted MWh volumes that are used to allocate HV costs
7. No Primary-Secondary Sub-functionalization	Exh 3c	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 3e	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 3g	C14:F14	Combine Primary/Secondary classification factors in Primary cells, zero out secondary factors
	Exh 8a	Rows 12, 49, 52, 56, 68	Set secondary allocators equal to primary allocators
8. Services on same basis as Meters	Exh 3i	Column G	New column added in Meter tab to allocate services on same basis as meters
	Exh 3a	D39:M39	Replace allocated rate base with allocations from Exh 3i. This indirectly impacts the allocation of OM&A
9. Allocate Services by Unweighted Customer Count	Input Data	D505:D512	Replace weighting factors with "1" for each class
10. a. Classify Steam Generation by Capacity Factor	BCF File-Rate Base Classification	G5:I6, F38	Classify Steam by weighted average capacity factor. Initial classification of Environmental & Fuel Conversion to 100% is maintained
	Input Tab	D565	Add Steam capacity factor
	Exh 2b	F16:G16, F38:G38	Classify Steam by steam capacity factor
	Exh 4 Detail	H184	Adjust Profit/Loss to balance total costs and revenues
	Exh 5	Rows 14, 15, 20	Update values with outputs of the BCF file
	Exh 6	Rows 17, 18, 23, 138, 139	Update values with outputs of the BCF file

	Exhibit	Reference Cells	Modification
10. b. Reclassify SLF Generation by Capacity Factor	BCF File-Rate Base Classification	G5:I6, F38, F39, F41	Classify Steam, Hydro and LM6000 by weighted average capacity factor. Initial classification of Environmental & Fuel Conversion to 100% is maintained
	BCF File – BCF Allocation	O28	Change Maritime Link classification to weighted average capacity factor
	Input Data	D562, D565, D566	Update values from BCF file and add weighted average capacity factors
	Exh 2b	F16:G17, F19:G19, F38:F39, F41	Revise classification factor to average capacity factor
	Exh 4 Detail	H184	Adjust Profit/Loss to balance total costs and revenues
	Exh 5	Rows 14, 15, 16, 20	Update values with outputs of the BCF file
	Exh 6	Rows 17, 18, 19, 23, 138, 139, 140	Update values with outputs of the BCF file
	Exh 6	Rows 17, 18, 19, 23, 138, 139, 140	Update values with outputs of the BCF file
11. Municipal OATT	BCF File – Data Inputs	Rows 69, 92, 118	Add volumes of Municipal customers that take service under OATT
	BCF File – BCF Allocation	Row 23	Update calculation to include other municipalities
	BCF File – Monthly Fuel Cost Allocation	Rows 57, 72, 86, 103, 117, 130	Update calculation to include other municipalities
	BCF File – Monthly Energy Allocators	Rows 13, 29	Update calculation to include other municipalities
	Input Data	D390:D393, D403, D474:D745, F487:G487	Remove OATT costs/revenues & update characteristics of municipal customers
	Exh 8a	Column K	Update characteristics of municipal customers
	Exh 8b	K170:L172	Adjust Municipal allocations

	Exhibit	Reference Cells	Modification
	Exh 9b	K16	Include volumes of distribution-connected municipalities
12. a. Basic Customer Method (Demand)	Exh 2a	E107:G107	Remove initial classification of distribution plant from Demand to Customer, except portion of Poles & Fixtures and Line Transformers
	Exh 3	Rows 259-260	Add transformers ARO to Customer classification
	Exh 3a	Row 38	Add allocation for Customer-related line transformers
	Exh 3c	Row 14	Move Primary Customer to Primary Demand. Move half of Secondary Customer to Secondary Demand
	Exh 3e	Row 14	Move Primary Customer to Primary Demand. Move Secondary Customer to Secondary Demand
	Exh 3g	Row 14	Move Primary Customer to Primary Demand. Move Secondary Customer to Secondary Demand
	Exh 5	Row 115	Move classification of underground lines to Demand
12. b. Basic Customer Method (SLF)	Exh 2a	E107:G107	Remove initial classification of distribution plant from Demand to Customer, except portion of Poles & Fixtures and Line Transformers
	Exh 2b	F122:G136	Further classification of distribution plant from demand to energy
	Exh 3	Rows 229-250, 280-281	Add distribution to Energy classification section. Add transformers ARO to Customer classification
	Exh 3a	Rows 29-43 Row 54	Add distribution to Energy classification section. Add allocation for Customer-related line transformers
	Exh 3c	Row 14 Columns D, G	Combine Primary Customer with Primary Demand and split between Demand and Energy

	Exhibit	Reference Cells	Modification
			by SLF. Combine Secondary Demand and half of Secondary Customer and split between Demand and Energy by SLF.
	Exh 3d	Columns D, G	Add Energy columns and allocate to classes by primary/ secondary Energy allocators
	Exh 3e	Row 14 Columns D, G	Combine Customer with Demand and split between Demand and Energy by SLF.
	Exh 3f	Columns D, G	Add Energy columns and allocate to classes by primary/ secondary Energy allocators
	Exh 3g	Row 14 Columns D, G	Combine Customer with Demand and split between Demand and Energy by SLF.
	Exh 3h	Columns D, G	Add Energy columns and allocate to classes by primary/ secondary Energy allocators
	Exh 5	D114:F119 E149, C256	Move classification of underground lines to Demand and Energy. Adjust classifications of Overhead lines, Reg. Affairs, and Pole Service Revenues. Revise pole & wire Demand/Customer split
	Exh 6	Rows 201-216, Rows 308-311	Add distribution to Energy classification section. Revise subtotal calculations.
	Exh 6.1	Rows 39, 108, 177, 246, 315, 384, 453, 522, 591, 660, 729	Add Energy distribution to each class total and unit cost summary.
	Exh 6a	Rows 25-36, Rows 59-66	Add distribution to Energy classification section. Revise subtotal calculations.
	Exh 6d	Rows 87-102	Add distribution to Energy classification section
	Exh 8a	Rows 39-40 & 42-43	Create distribution-specific MWh allocation factors
	Exh 8b	Rows 15-16, 24-25, 60-61, 103-	Create Energy-related distribution allocation factors

	Exhibit	Reference Cells	Modification
		104, 115-116, 179-180	
	Exh 9a Annual	Columns M-V	Calculate primary and secondary distribution MWh and load factor
14. a. Updated Fuel Costs	BCF File – Data Inputs	Rows 8-47	Update fuel cost inputs
	Input Data	D217, D232:D239, D337:345	Update values with outputs of the BCF file
	Exh 5	D14:E19	Update values with outputs of the BCF file
	Exh 6	Rows 17-23, 137-143, 160	Update values with outputs of the BCF file
14. b. Updated Fuel Costs (NSP Positions)	Same changes as Model 14a. made to NSP Positions Model (Model #1)		
15. Transmission clean import-enabling assets classified by SLF	Input File	Rows 38, 40	Add Transmission for Renewables rate base and remove amount from overall transmission plant
	Exh 2	Rows 25, 27	Add Transmission – Renewables and adjust sub-total
	Exh 2a	Rows 103-121, 123	Add Transmission – Renewables section and adjust sub-total
	Exh 2b	F52:F66, F86:F101, Rows 106-124, 126	Remove further classification of EHV/HV transmission to energy, Add Transmission – Renewables section and adjust sub-total
	Exh 3	Rows 101-119, 120, 197-211, 227-243, 247-266, 268	Add Transmission – Renewables section and adjust sub-total, Clear EHV/HV energy allocations
	Exh 4	Row 77	Add Transmission – Renewables
	Exh 4 Detail	E50:E51, Row 52, D64:H64, D142:G142, E150:E151, Row 152	Add Transmission – Renewables and adjust subtotals,

	Exhibit	Reference Cells	Modification
			Revise Grants in Lieu of Taxes and EHV/HV spreads to include Renewables
	Exh 5	D64:E65, D82:E83, Rows 99-116, 118, C280:D281, Row 282	Change classification of EHV/HV to 100% demand, Add Transmission – Renewables and adjust subtotals
	Exh 6	Rows 93-106, 108, 185-209, 213-226, 228, 317	Add Transmission – Renewables section and adjust sub-total, Clear EHV/HV energy allocations
	Exh 6.1	Rows 31, 35, 100, 104, 169, 173, 238, 242, 307, 311, 376, 380, 445, 449, 514, 518, 583, 587, 652, 656, 721, 725	Add Transmission – Renewable total and unit costs to each rate class
	Exh 6d	Rows 34-36, 89-91	Add Transmission – Renewable sections
	Exh 8b	Rows 39-40, 51-52, 54-55, 57-58, 75-76, 97-98, 100-101, 103-104, 133-134, 136-137, 139-140, 157-158, 166-167, 169-170, 172-173	Add new allocators for Transmission -Renewables and clear composite EHV/HV energy allocators
	Summary	Columns P-Q, AG-AH	Add class allocations of costs and rate base from Exh 6.1
16. Equivalent Peaker Method	BCF File – Rate Base Classification	G2:H5, F12:N22, F38:G42	Summary table of equivalent peaker calculations by generation type and incorporating calculation in rate base classifications
	Input Data	Rows 565-568	Add classifications to COSS input tab
	Exh 2b	F16:G17, F19:G20, F34:G34, F38:G39, F41:G41	Further classifications revised to the equivalent peaker classifications.

1

NS POWER GENERAL RATE APPLICATION ("GRA"):

GRA COST OF SERVICE STUDY ELEMENTS - REBUTTAL

PREPARED FOR:
NOVA SCOTIA POWER, INC.

AUGUST 23, 2022

CONCENTRIC ENERGY ADVISORS

CEADVISORS.COM

©2022 CONCENTRIC ENERGY ADVISORS, INC. ALL RIGHTS RESERVED.

CONCENTRIC ENERGY ADVISORS

TABLE OF CONTENTS

Section 1: **Introduction and Purpose** **1**

Section 2: **Theory Underpinning the Minimum System Study** **2**

Description of the MSS *2*

Zero Intercept Study *3*

Minimum Size Selection *3*

Prevalence in the Industry *4*

PRIOR COSS *5*

Section 3: **Response to Intervenor Evidence Regarding THE Minimum System** **6**

Minimum System Costs are Customer-related *6*

Relationship to Customer Additions *6*

Relationship between Feeder Length and Customer Count *7*

Size Used in the MSS *9*

Application of the minimum sized conductor to the appropriate length *9*

Minimum level of load-carrying capacity is appropriate under a minimum sized system *10*

Section 4: **Poles Sub-Functionalization** **12**

Secondary customers do not pay twice when combination poles are allocated between primary and secondary. *12*

Section 5: **Review of Cost Allocation Methods** **13**

Review of Cost Allocation Methods *13*

Section 6: **Pole Attachment Rate** **15**

Net Pole Investment and Depreciation Expense *15*

Shared Usage Allocation Factor *16*

Inclusion of Forecasted Costs *16*

Calculations of Attachments per Pole *17*

SECTION 1:

INTRODUCTION AND PURPOSE

My name is Bickey Rimal, and I am an Assistant Vice President with Concentric Energy Advisors, Inc. ("Concentric"). I provided evidence related to class cost of service, pricing and rate design matters in the 2022 General Rate Application ("GRA") submitted by Nova Scotia Power Incorporated ("NS Power" or the "Company").

This rebuttal testimony responds to the following evidence filed by Intervenors and consultants for Counsel to the Nova Scotia Utility and Review Board ("NSUARB" or the "Board"):

a. Dr. Karl Richard Pavlovic, PCMG and Associates ("PCMG"), on behalf of NSUARB Counsel;

b. Resource Insight, Inc. on behalf of the Nova Scotia Consumer Advocate ("CA"); and

c. Mr. Andrew Briggs, AGBriggs Consulting Inc., on behalf of Bragg Communications, Inc., et. al.

Specifically, I respond to the above noted Evidence regarding the following issues: a) claims that the Minimum System Method has no theoretical, practical, or empirical basis; b) alleged flaws in the Minimum System Study ("MSS"); c) critiques regarding the pole sub-functionalization study, specifically the treatment of combination poles; d) recommendation to review cost allocation methods; and, e) alleged flaws in the methodology used to calculate the Pole Attachment Rate.

SECTION 2:

THEORY UNDERPINNING THE MINIMUM SYSTEM STUDY

Dr. Pavlovic claims that the Minimum Size Method has no theoretical, practical or empirical basis to classify a portion of the distribution system cost as customer-related.[1] This position is at direct odds with the fact that this method is one of the two most widely used methods by utilities to classify costs, and is endorsed by the National Association of Regulatory Utility Commissioners ("NARUC") as an acceptable industry practice. As discussed below, Concentric found that a significant majority of electric utilities in each of the Canadian provinces classify distribution assets between customer and demand and majority of them use the MSS. It is important to understand the purpose of the MSS and distinguish it from other classification methods.

Description of the MSS

Distribution system costs are incurred to move electricity from generation and transmission facilities to individual customers that are distributed geographically throughout the service territory of a utility. A significant portion of those costs are incurred regardless of the peak demand of the customers. Increases or decreases in demand do not result in proportionate increases or decreases in the number of poles and kilometers of conductors required to distribute electricity geographically. For example, if the load of customers in Nova Scotia was significantly reduced, but the number of customers was unchanged, we would not expect the number of poles and kilometers of wires in the Province to reduce by the same proportion. As a result, and as discussed in my Cost of Service evidence filed as Appendix 11A to the GRA, the costs associated with a distribution system are related to both the peak amount of load that the system is designed to deliver and the number of customers it is designed to serve. As a result, it is appropriate to allocate a portion of the distribution system costs on a demand-related basis and a portion on a customer-related basis. The Electric Utility Cost Allocation Manual published by NARUC ("NARUC Manual") dedicates an entire chapter on classification and allocation of distribution plant.[2] As a part of that chapter, the NARUC Manual identifies two methods used to determine the demand-related and customer-related components of the distribution system. The two methods are the "Minimum Size Method" and the "Minimum-Intercept Method".

Concentric conducted a MSS using the Minimum Size Method to classify a portion of poles and conductors as demand-related and customer-related. The MSS essentially compares the cost of a hypothetical minimum system (i.e., a system sized to simply connect customers) to the total cost of

[1] Evidence of Pavlovic, at 2.

[2] NARUC, Electric Utility Cost Allocation Manual, Chapter 6, at 83-99 (1992).

the system. The minimum system cost represents the customer-related costs, whereas the total costs less the minimum system costs represent the demand-related costs.

Zero Intercept Study

The Minimum-Intercept Method, also referred to as the "zero-load" or "zero-intercept" method, seeks to identify the portion of the distribution plant that is associated with a hypothetical no-load situation. This method uses regression analysis to establish a relationship between the installed cost of an asset and current carrying capacity or demand ratings of that asset. The resulting relationship will be of the form:

Unit Installed Cost = Intercept + Coefficient * Load Carrying Capacity

The intercept resulting from the regression analysis represents the cost of a hypothetical asset that has no load-carrying capacity. The cost associated with the zero-intercept represents the customer component for that particular distribution account (poles, conductors, etc.). It is important to note the no load-carrying capacity requirement is relevant only for the Minimum-Intercept Method and not for the Minimum Size Method. The NARUC Manual acknowledges that the Minimum-Intercept Method requires significantly more data and calculations and can produce statistically unreliable and counterintuitive results. For example, since the zero intercept is estimated using regression analysis, the intercept could be a negative number and imply that the customer component is negative. In addition, if the regression analyses do not produce statistically significant relationships, then the results will be invalid and may not be useful. As a result, there can be significant controversy around the validity and accuracy of the Zero-Intercept Study. These shortcomings are acknowledged in Dr. Pavlovic's evidence. [3]

Minimum Size Selection

The NARUC Manual has specific guidance regarding the methodology to conduct a MSS for specific distribution accounts (poles, overhead conductors, and underground conductors).[4] There is specific guidance regarding the selection of a minimum-sized asset. For poles, it is the "minimum height pole currently being installed". Similarly, for overhead conductors, it is the "minimum size conductor currently being installed," and for underground conductors, it is the "minimum size cable currently being installed."

[3] Evidence of Pavlovic, at 6.

[4] NARUC, Electric Utility Cost Allocation Manual, at 91-92 (1992).

Prevalence in the Industry

Utilities throughout Canada and United States routinely use the MSS or the Zero-Intercept Study to classify a portion of the distribution assets as customer-related and demand-related. As described above, the costs associated with a distribution system are related to both the peak amount of load that the system is designed to deliver and the number of customers it is designed to serve. Concentric examined the classification methods of the major electric utilities in each of the Canadian provinces and found that the significant majority of them classify distribution assets between customer and demand as set out in Figure 1. Concentric also found that other than NS Power, half of the utilities examined use a MSS to determine the customer and demand portion of distribution assets.

Figure 1: Canada Results Summary

Utility	MSS Used?	Poles, Towers and Fixtures	Conductors	Line Transformers
Nova Scotia Power (Current)		PRI: 27% Customer, 73% Demand; SEC: 50% Customer, 50% Demand	PRI Overhead/Underground: 27% Customer, 73% Demand; SEC Overhead/Underground: 50% Customer, 50% Demand	100% Demand
Nova Scotia Power (Proposed)	Yes	PRI: 76% Customer, 24% Demand; SEC: 70% Customer, 30% Demand	PRI Overhead: 38% Customer, 62% Demand; SEC Overhead: 83% Customer, 17% Demand; PRI Underground: 17% Customer, 83% Demand; SEC Underground: 82% Customer, 18% Demand	100% Demand
ATCO Electric	Yes	55% Customer, 45% Demand	Overhead: 70% Customer, 30% Demand; Underground: 70% Customer, 30% Demand	55% Customer (Non-Rural); 60% Customer (Rural); (50% Rural Allocated)
BC Hydro	No	50% Customer, 50% Demand	50% Customer, 50% Demand	50% Customer, 50% Demand
Fortis BC Energy	Yes	81% Customer, 19% Demand	65% Customer, 35% Demand	69% Customer, 31% Demand
Maritime Electric	No	50% Site (Customer), 50% Demand	50% Site, 50% Demand	40% Site; 60% Demand

New Brunswick Power	No	50% Customer, 50% Demand	50% Customer, 50% Demand	25% Customer, 75% Demand
Newfoundland Power	Yes	37% Customer, 63% Demand,	37% Customer, 63% Demand	28% Customer, 72% Demand
Ontario	No	60% Customer if Density is < 30 customers per kM of lines, 40% Customer if Density between 30 and 60 customers per kM of lines, 35% Customer if Density between > 60 customers per kM of lines, or 30% Customer if Density is between > 60 customers per kM of lines		
SaskPower	Yes	70% Customer, 30% Demand	70% Customer, 30% Demand	35% Customer, 65% Demand

PRIOR COSS

The Board has approved the prior Cost of Service Study (COSS), which classified distribution cost as both demand and customer-related. Figure 1 above shows the customer and demand classification utilized in prior COSS by NS Power. The classification of distribution assets between customer and demand is the established practice in Nova Scotia.

SECTION 3:

RESPONSE TO INTERVENOR EVIDENCE REGARDING THE MINIMUM SYSTEM

Minimum System Costs are Customer-related

Dr. Pavlovic's cites Professor Bonbright's book *Principles of Public Utility Rates* as a basis for his criticism of the use of the Minimum System Method to classify a portion of the distribution system cost as customer-related. Citing Professor Bonbright, Dr. Pavlovic states:

> *Bonbright refers to the minimum size system methods as assuming "hypothetical" and "phantom" distribution systems that rest on the erroneous assumption that "since [the minimum system costs] vary directly with the area of the distribution system (or else with the lengths of the lines, depending on the type of distribution system), they therefore vary directly with the number of customers," which "makes no allowance for the density factor (customers per linear mile or square mile).* [5]

Dr. Pavlovic fails to provide the full context of the discussion by Professor Bonbright by omitting the succeeding paragraph where his preference of the inclusion of minimum system costs as customer-related versus demand-related is discussed. In the succeeding paragraph to the one referenced by Dr. Pavlovic, Professor Bonbright states:

> *. . .[T]he inclusion of the costs of a minimum-sized distribution system among customer-related costs seem to me clearly indefensible, its exclusion from the demand-related costs stands on much firmer ground.*[6]

The above quote suggests that given the choice between including the minimum-sized distribution costs as customer-related versus demand-related, Professor Bonbright's preference would be to classify it as customer-related, as was done in the Company's application. Between the two options, he indicates that treating minimum-sized distribution costs as customer-related costs is a better option than including them as demand-related costs.

Relationship to Customer Additions

Dr. Pavlovic states that "the Company's distribution poles and wires costs do not vary with the number of customers – additions and deletions of customers do not cause those costs to increase or decrease" and proceeds to conclude that the Company's distribution system should be classified as

5 Evidence of Pavlovic, at 9.

6 Bonbright, James C., Principles of Public Utility Rates, Columbia University Press (1988), page 491-492.

100% demand-related.[7] This assertion, however, fails to recognize the fact that a portion of the distribution system that already existed, before an additional customer is added, is required to serve the minimum requirements of the customers and their geographic dispersion. The whole point of conducting a MSS is to calculate the portion of the distribution system that does not vary with demand. A portion of the distribution costs is incurred regardless of the peak demand of the customers. As discussed earlier, increases or decreases in demand do not result in proportionate increases or decreases in the number of poles and kilometers of conductors required to distribute electricity geographically. The reason we classify a portion of the distribution system costs as customer-related is that the distribution system exists to deliver electricity to hundreds of thousands of customers who are widely dispersed throughout the service territory of the Company. A significant portion of those costs is totally unrelated to the peak demand and, thus, should not be allocated based on demand.

Relationship between Feeder Length and Customer Count

The Resource Insight evidence, filed on behalf of the CA, conducts regression analysis using length as a dependent variable and customer count as an independent variable and concludes that there is no relationship between the number of customers and the length of the feeder.[8] The regression analysis showing the relationship between customer count and feeder length is not appropriate because it does not account for the location of the feeder (i.e., whether the feeder is rural, sub-urban or urban), or that the number of customers served by each feeder is dependent on where the feeder is located. Figure 2 below indicates that more customers are served by smaller feeders in urban locations as compared to sub-urban and rural locations.

[7] Evidence of Pavlovic, at 10.

[8] Evidence of CA, at 58.

Figure 2: Relationship between Feeder Length and Customers by Geography

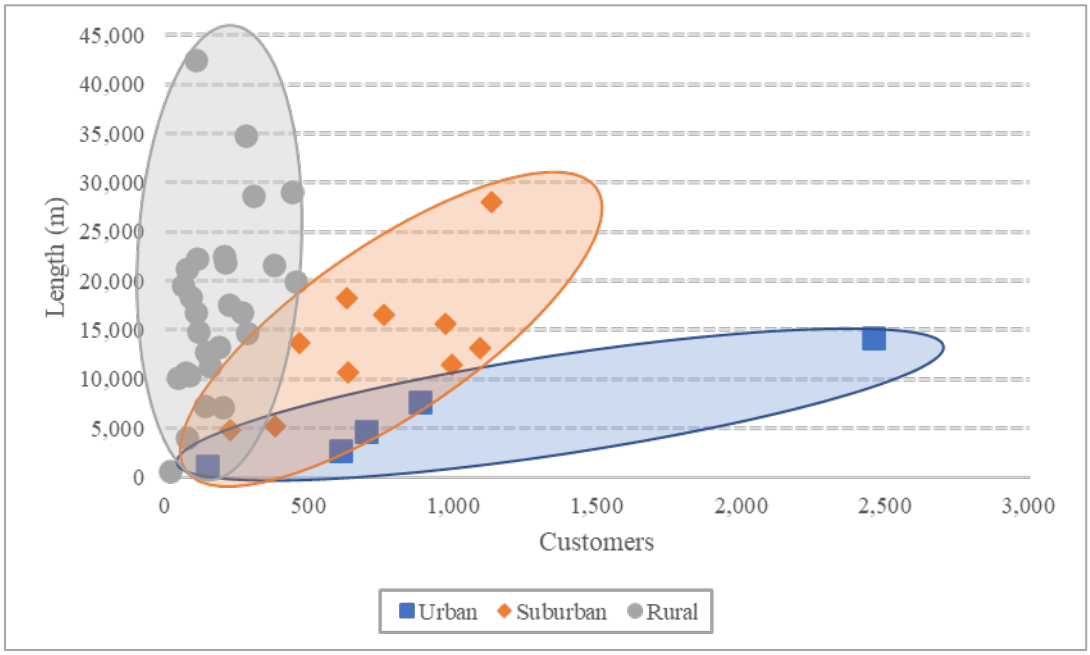


Figure 2 illustrates that geographic dispersion of the customers and where they are located and not their peak demand drives the length of the feeder. As stated previously, if given the choice between including the minimum-sized distribution costs as customer-related or demand-related, Professor Bonbright's preference would be to classify the minimum-sized costs as customer-related, as was done in this case.

The Ontario Energy Board ("OEB") has explicitly recognized that the customer component of distribution assets are directly linked to customer density. The OEB uses specific values for customer component of poles, conductors, and line transformers based on the density of the utility. The customer component is:

- 60% if Density is < 30 customers per kM of lines,
- 40% if Density between 30 and 60 customers per kM of lines,
- 35% if Density between > 60 customers per kM of lines, or
- 30% if Density is Between > 60 customers per kM of lines.

Since NS Power has relatively low customer density and if NS Power were to use these OEB guidelines, 60% of poles, conductors, and line transformers would be classified as being customer-related.



Size Used in the MSS

The Resource Insight evidence claims that the MSS uses an incorrect minimum-sized pole and further claims that the Company did not provide any basis for its choice of minimum poles. [9] Similarly, Resource Insight's evidence claims that the MSS uses incorrect minimum-sized conductors and that the study does not explain how the size and type of the minimum conductors were selected. [10] As mentioned above, the NARUC Manual provides specific guidance regarding the selection of the minimum-sized assets. Across all asset types, the minimum-sized asset used in the analysis should be the minimum-sized asset currently being installed. The hypothetical minimum system was constructed using the minimum-sized assets currently being installed by NS Power based on the information provided by engineering personnel at the Company. For example, minimum sized poles used in the analysis were based on the "minimum height pole currently being installed" in accordance with the NARUC Manual. [11]

The Resource Insight evidence calculates the impact of using conductors it perceives to be the appropriate minimum sized conductor[12] and presents the results in Table 8 of its evidence. [13] As stated previously, the minimum size conductor used in the MSS is based on the guidance provided by the NARUC Manual and as a result, the alternate calculations labelled "Corrected" and presented in Table 8 by Resource Insight is not correct. In addition, for primary overhead conductors, Resource Insight is using just one span of a conductor as a minimum size instead of two conductors (one conductor and one neutral) to complete the circuit.

Application of the minimum sized conductor to the appropriate length

The assertion in the Resource Insight evidence that "Concentric applied the cost of a multiple-conductor line such as triplex to the sum of the lengths of all the conductors and neutrals, it overstated the minimum conductor cost" is factually incorrect.[14] Concentric has applied the minimum-sized conductor to the appropriate length (i.e., circuit length), so the calculations are accurate.[15] The costing is based on the total span length; however, the cost associated with the minimum system is based on the circuit length and the application is correct.

---

9 Evidence of CA, at 60-61.

10 Evidence of CA, at 61.

11 NARUC, Electric Utility Cost Allocation Manual, at 91 (1992).

12 Evidence of CA, Table 7, at 61.

13 Evidence of CA, at 62-63.

14 Evidence of CA, at 62.

15 NS Power response to Synapse IR-032, Attachment 2, "min_sys_cond" and "Conductor Circuit Length" tabs.



Minimum level of load-carrying capacity is appropriate under a minimum sized system

The Resource Insight evidence claims that if the minimum size used in the MSS has some load-carrying capacity, that capacity should be credited to the classes that pay for it, reducing their demand to reflect the capacity that requires equipment above the minimum system level.[16] It is important to note that this is not a Zero-Intercept Study, and that a minimum level of load-carrying capacity is acceptable under a Minimum System. Study. Even though the minimum sized system has some load carrying capacity, virtually all customers impose some lowest common denominator amount of minimum load on the system, and so the minimum system costs should be treated as providing equal benefit to all customers on the relevant system.

Relevance of the NARUC Manual

The Resource Insight evidence, filed on behalf of the CA, attempts to discredit the NARUC Manual based on when it was last revised. [17] However, the NAURC Manual, although last revised in 1992, has withstood the test of time and is continually relied upon by regulators, utilities, and other relevant stakeholders for cost allocation purposes. For example, the Indiana Utility Regulatory Commission ("IURC") is currently in the process of updating its regulations associated with the Minimum Standard Filing Requirements to explicitly say *"For an electing energy utility, any cost of service study filed shall follow the guidelines established by the National Association of Regulatory Utility Commissioners (NARUC)."* This action by the IURC is a clear illustration that the NARUC Manual, in spite of when it was revised, is still very relevant and foundational for cost allocation.

In Nova Scotia, the Board has also relied on and referenced the NARUC Manual in prior decisions. For example, in its 2003 Rate Design Decision (P-878) the Board quoted the NARUC Manual to provide the breakdown of distribution costs between customer and demand.

> *The NARUC Electric Utility Cost Allocation Manual defines the following distribution plant as partly customer-related and partly demand-related:*
>
> *Land and Land Rights*
>
> *Structures and Improvements*
>
> *Poles, Towers and Fixtures*
>
> *Overhead Conductors and Devices*
>
> *Underground Conduit*
>
> *Underground Conductors and Devices*
>
> *Line Transformers*

[16] Evidence of CA, at 65.

[17] Evidence of CA, at 59.

NSPI uses the "minimum-size method" to classify the customer costs. This method of defining customer costs was approved by the Board in 1977 as an acceptable method of classifying distribution plant. [18]

Conclusions on Minimum System Study

With respect to issues raised regarding MSS:

- The cost associated with the Minimum System are customer-related and not demand-related;
- The feeder length and pole counts, which drives a significant portion of the costs of the distribution system, are driven by customer number and their geographic dispersion and not peak demand;
- The selection of minimum sized assets used in the MSS is appropriate and based on the NARUC Manual;
- The minimum sized conductors is applied to the circuit length appropriately in the MSS; and
- The NARUC Manual—specifically the classification of distribution assets between customer and demand—is still relevant and its use is standard industry practice.

[18] NSUARB Decision, (NSUARB-NSPI-P-878) at 42.

SECTION 4:

POLES SUB-FUNCTIONALIZATION

Secondary customers do not pay twice when combination poles are allocated between primary and secondary.

The Resource Insight evidence asserts that Concentric's treatment of combination poles (i.e., poles that contain facilities that carry both primary and secondary voltage) in the sub-functionalization study results in secondary customers paying twice for the same pole. [19] This assertion is factually incorrect. As mentioned in my Cost of Service Evidence filed as Appendix 11A to the GRA, for each feeder, Concentric allocated combination poles between secondary and primary voltage based on the ratio of unit costs of secondary and primary poles in that feeder.[20]

Concentric assumed that for each feeder, in the absence of combination poles, there would have to be the same number of primary-only and secondary-only poles. Using the average cost of secondary-only poles at that particular feeder, Concentric determined what the cost would be if all combination poles were replaced by secondary poles. Similarly, Concentric determined what the cost would be if all the combination poles were replaced by primary poles. The ratio of this calculated total cost, which is equivalent to the ratio of unit costs at that particular feeder, was then used as a basis to allocate the cost and counts of combination poles. Essentially, a portion of each combination pole is allocated to primary function and the remainder to secondary function; therefore, there is no double counting as claimed by Resource Insight.

The purpose of the sub-functionalization study is to ensure that customers not taking service at secondary voltage are not allocated costs of the secondary distribution system, since they do not use those assets. Since the vast majority of the NS Power customers are being served at secondary voltage level, the vast majority of the poles do not have primary customers attached to them. As a result, Concentric's approach to allocating combinations poles between primary and secondary ensures that the costs are allocated appropriately.

[19] Evidence of CA, at 55.

[20] 2022-2024 GRA Direct Evidence Appendix 11A, page 4 of 7.

SECTION 5:

REVIEW OF COST ALLOCATION METHODS

Review of Cost Allocation Methods

Resource Insight requests a review of NS Power's cost allocation methods through a new collaborative process. Resource Insight reasons that a review of cost allocation methods is needed due to existing and future investments in carbon-free generation resources, increased reliance on purchased power agreements, battery storage, and investments intended to support electrification and distributed energy resources ("DER"). There are several reasons the Board should reject this proposal at this time.

- First, these issues are not new or are not immediate. The treatment of carbon-free generation, specifically wind generation, and the classification and allocation of cost associated with purchased power were addressed in the 2013 Cost of Service ("2013 COS") proceeding (Matter No. M05473). No evidence has been provided that new Cost of Service treatment is required. Integration of batteries, and other DER, on a widespread basis remains to be determined and does not require an immediate response. Based on the most recent Integrated Resource Plan, battery resources are expected to fill a small portion of the total generation mix in the near future. [21] When those resources become more immediate and it becomes clear that the current approach to cost allocation is inappropriate, then revisiting this issue may be appropriate.

- Second, Resource Insight implies, with no clear evidence, that the transition to more distributed resources will occur practically overnight and the Board will be left unprepared. Nothing in the evidence compels that interpretation. It is far more likely that the transition will occur in a manner that provides ample time to address any alleged deficiencies in traditional cost of service approaches. Other energy transitions support this conclusion. The transition to lower utilization of coal-fired assets, increased penetration of wind, and increased reliance on purchased power were addressed in 2013.

- Third, Resource Insight claims that any future proceeding "should include any other allocation issues that need to be updated to reflect emerging resources and improvements in data and analytic capabilities." This vague statement provides no concrete guidance and is likely to lead to controversy as to what is meant and how the concepts should be applied. There are many issues that the Board would need to consider beyond the simple fact that information technology is changing before deciding whether a new proceeding is necessary.

[21] Nova Scotia Power, *Powering a Green Nova Scotia, Together: 2020 Integrated Resource Plan,* published November 27, 2020.



- Fourth, Resource Insight does not provide any logic, evidence or argument regarding what allocation methodologies, if any, can and should be updated to reflect emerging resources and improvements in data and analytics capabilities. A hasty proceeding, in the end, might not provide any useful advice to the Board concerning cost allocation methodologies that the Board could not obtain through the normal course of its activities (i.e., GRA and FAM proceedings).

- Finally, Resource Insight suggests that any future study "should not be restricted to or primarily guided by precedent." Such blanket dismissal of precedents is neither logical nor helpful. The prior decisions of the Board are based on facts and argument from prior cases; it is unreasonable to dismiss precedents because the Board has no evidence before it to do so in this proceeding. If, in a future proceeding, the Board determines, based on the argument and evidence in that proceeding, that changes are warranted it may make those decisions based on the evidence on record, if sufficiently compelling. In addition, abandoning precedents could, and likely would, cause instability in the allocation of costs and rate design, and perhaps even rate shock to some customers.[22]

For these reasons Resource Insight's recommendation is not supported and, at a minimum, premature. It should be rejected by the Board.

[22] "Stability of the rates themselves, with a minimum of unexpected changes seriously adverse to existing customers" is one of the foundational criteria of a sound rate structure established. Bonbright, James C, Principles of Public Utility Rates, 1961, page 291.

SECTION 6:

POLE ATTACHMENT RATE

Net Pole Investment and Depreciation Expense

Mr. Briggs's evidence disagrees with the derivation of the net pole investment included in the Company's calculation of the pole attachment fee proposed in the application.[23] Citing a change in methodology from the 2001 proceeding, he disagrees with the inclusion of certain Distribution Plant and General Plant in the calculation of net pole costs. The net pole investment costs only include a portion of the cost associated with specific Distribution Plant accounts. [24]

It is important to note that the Milton Hydro application, which formed the basis of the 1999 Canadian Radio-television and Telecommunications Commission ("CRTC") decision that was relied on by the Board in 2001, did in fact include certain non-pole assets in calculation of the net pole costs. The CRTC in its Decision 99-13, relied on the methodology developed by Milton Hydro to determine the net embedded pole cost and depreciation expense.[25] Milton Hydro's calculation of net pole investment includes a portion of General Plant and working capital.[26] Hence, the inclusion of certain related plant in addition to the pole account in the calculation of net pole value is not a change in the methodology that was considered by the Board.

It is reasonable for pole investment calculations to include other pole-related items in addition to what is booked directly to the Pole Plant account only. Specifically, it is reasonable to allocate a portion of distribution assets and general plant to the pole-related rate base and depreciation expenses used in calculation of pole rates. The net pole investment calculated by the Company is based on the allocated pole cost and considers the potential cross-subsidization between the customers of the third-party attachers and the Company's electric customers. Based on economic efficiency there is a range of costs that can be considered a "subsidy-free" range. The lower bound or the minimum cost of this range is the incremental cost the attacher imposes on the system. If the price covers the incremental cost, then there is no subsidy being provided to the third-party attachers by the Company. At the other end, the higher bound or the maximum cost is equal to the total avoided cost of the third party attachers. This is essentially the cost a third-party attacher would have to incur to build and own its own network of poles. As long as the price is below this maximum cost, there is

[23] Briggs Evidence, at 7.

[24] 0100 Land Distribution Plant, 0200 Land Rights Distribution Plant (60%), 0300 Bldg Struct Grnd Dist Plant. Please note the Company has addressed the inappropriate inclusion of account 5200 as part of Appendix F to the Rebutal.

[25] Telecom Decision CRTC 99-13, paragraph 207.

[26] Milton Hydro Study from CRTC 99-13.



no subsidy being provided to the Company by the third-party attachers. As a result, any price within this range can be considered economically efficient.

It is important to consider what costs the third-party attachers are avoiding by utilizing the Company poles and how those benefits should be shared between the shareholders of the third-party attachers and the Company's electric customers. Even though the net pole investment calculated by the Company that is attributable to third-party attachers is slightly higher than what it would have been if the calculation just focused on the net book value of the pole account, it is significantly lower than what it would cost the third-party attachers to actually install and own the pole. Since the net pole investment calculated by the Company is within the subsidy-free range, the benefits are being shared between the shareholders of third-party attachers and the customers of NS Power.

In his evidence, Mr. Briggs also disagrees with the inclusion of insulator investment in the calculation of net pole investment cost.[27] However, he fails to recognize that the shared usage allocation ratio (75%) used to allocate the net pole investment to shared usage between power and non-power attachers explicitly excludes the cost associated with insulators. Therefore, even though the cost of insulators is included in the initial net pole investment calculation, the final net pole investment used to determine the pole attachment fees excludes those costs.

Shared Usage Allocation Factor

Mr. Briggs also disagrees with the 75% ratio used to allocate the net pole investment to shared usage between power and non-power attachers. [28] The development of the 75% allocation factor is presented in Schedule 5 of PR-02 Attachment 5. The 75% allocation factor used in the pole attachment fee calculation is reasonable since the cost information is used primarily to inform cost relationships between various components of the pole (i.e., bare pole, cross arms, insulators, guys, anchors, and clamps). In fact, the 75% allocation factor used in the fee calculation may be a more conservative estimate because not every electric pole will have all these components excluded from the factor. For example, not every single pole may have a cross arm. As a result, the 75% allocation factor used in the analysis is reasonable and justified.

Inclusion of Forecasted Costs

Mr. Briggs disputes the use of forecasted costs in the derivation of net book value and depreciation expense associated with poles. [29] It is appropriate to use both capital and O&M forecasted costs in calculating the pole attachment rate since the revenue requirement in the GRA is based on forecasted rate years. The prudency of those costs will be reviewed as a part of the GRA, and the resulting rates

[27] AGBriggs Consulting Report, at 7.
[28] AGBriggs Consulting Report, at 14-15.
[29] AGBriggs Consulting Report, at 5.



will match the associated costs for the time period in question. Briggs also raises the issue of data mismatch with the use of forecasted net book value and depreciation expense while using the historical pole count. Briggs suggests that since the annual capital additions over the forecast period exceeds the forecasted depreciation expense, the forecasted count of poles will be larger than the historical count. [30] This suggests that when annual capital additions exceed annual depreciation expense then the capital addition is related to growth. However, a significant portion of the capital addition is also related to replacement of assets. In fact, a significant portion of the capital additions associated with the pole investment in the forecast period is associated with replacement and upgrade of the existing pole assets and not with addition of new pole assets.

Calculations of Attachments per Pole

In his evidence, Mr. Briggs disputes the use of the pole attachment ratio of 1.31 used by the Company in the pole attachment fee calculations. [31] The Company has calculated the pole attachment ratio by dividing the total number of attachments subject to pole attachment fees plus attachments under the NS Power/Bell Aliant Joint Use Agreement, by the total number of NS Power-owned mainline poles.

Briggs disputes the use of all poles instead of only the poles with an attachment as the denominator while calculating the pole attachment ratio. Since all the mainline poles are available to third party attachers, it is appropriate to use the count of all poles in the denominator. Since all the poles represent the amount of total usable capacity available to third party attachers, the calculation should include all poles and not be limited to poles with attachments only. This same issue has been addressed by the New Brunswick Energy and Utilities Board (NBEUB) in its 2015 Decision (Matter No. 272). The NBEUB stated:

> *NB Power's network of joint-use poles, together with those of Bell Aliant, are available as a service to current and potential third party attachers. Limiting the NB Power network, for rate calculation purposes, to poles to which there are actual third party attachments, would be inconsistent with these principles. . . . NB Power invests in taller poles and incurs additional costs in maintaining a network of joint-use poles. This reduces the potential for the proliferation of single use poles and economic inefficiency. Joint-use poles are available for attachment by third parties, subject to the payment of approved rates. It is reasonable that the rate methodology incorporates the incremental costs of maintaining an available network of joint-use poles. For these reasons, the Board accepts the average of 2.4 attachers per pole (1.4 communication attachers) for the purposes of the pole attachment rate calculation.*[32]

---

30 AGBriggs Consulting Report, at 6.

31 AGBriggs Consulting Report, at 29.

32 NBEUB 2015 Decision (Matter No. 272), pages 13-14.

NON-CONFIDENTIAL

Request DR-1:

Regarding use of ELCC factors in generation COS treatment, please clarify whether NS Power's proposal is for average or marginal ELCC factors, and whether NS Power's proposal is to use ELCC factors relevant to the test year or to the rate period.

Response DR-1:

NS Power's proposal under item 1a[1] is worded as follows.

> NS Power supports examination of alternate classification methodology of intermediate generation based on either its combined capacity factor or ELCC factor.

As provided in response to PHP DR-2, NS Power's preferred approach is to continue to classify rate base and costs of intermediate steam generation based on the capacity factors of the units concerned. A transition from the system load factor-based classification to the one based on ELCC would do away with the energy weighting premise behind the classification of steam generation under NS Power's current COSS and would require further discussion with stakeholders.

In the event that the use of ELCC, as a classification factor, was to be extended from non-dispatchable to intermediate steam generation, the application of average ELCC factors, based on prospective test year, would be consistent with the prospective, embedded cost premise of NS Power's COSS and also the average ELCC factors applied so far to classification of wind generation in past proceedings. Please note that the ELCC factors of thermal units, which are not dispatch-limited resources as is the case with the non-dispatchable renewable resources, are not subject to diminishing returns with an increase in their installed capacity, and therefore there is little variation between their average and marginal ELCC performance.

[1] 2024-04-18 – COSS – Summary of NS Power's Initial Position.pdf

NON-CONFIDENTIAL

Request DR-2:

Please state whether NS Power's proposal to use 3CP (and related) demand allocators is to base class demand on (a) monthly coincident peak load hours or (b) monthly coincident net peak load hours (e.g., peak load less intermittent resources), and explain the reasoning.

Response DR-2:

NS Power's proposal is to continue to use 3CP demand allocators in apportionment of all generation and transmission costs classified to demand. Under the current methodology there is no distinction made between system peak net of intermittent resource and intermittent resource load hours. The current approach is justified on the basis that NS Power is a winter peaking utility, where historically most of its winter system peaks occurred during one of the three winter months of January, February and December. Since NS Power's investment in its generation and transmission capacity is driven by meeting its annual system peaks occurring during winter months, the allocation of demand-related costs on the basis of class contributions to these winter peaks is consistent with cost causation. Further, the method is simple and easy to implement since the peak demand data required for its implementation is readily available.

Request DR-3:

Please indicate whether the ELCC factors relied upon by NS Power in resource planning reflect resource performance during the annual peak load hour, the top three-monthly peak load hours, a reliability-weighted function considering the many hours with significant loss of load probability, or some other description of the relevant hours.

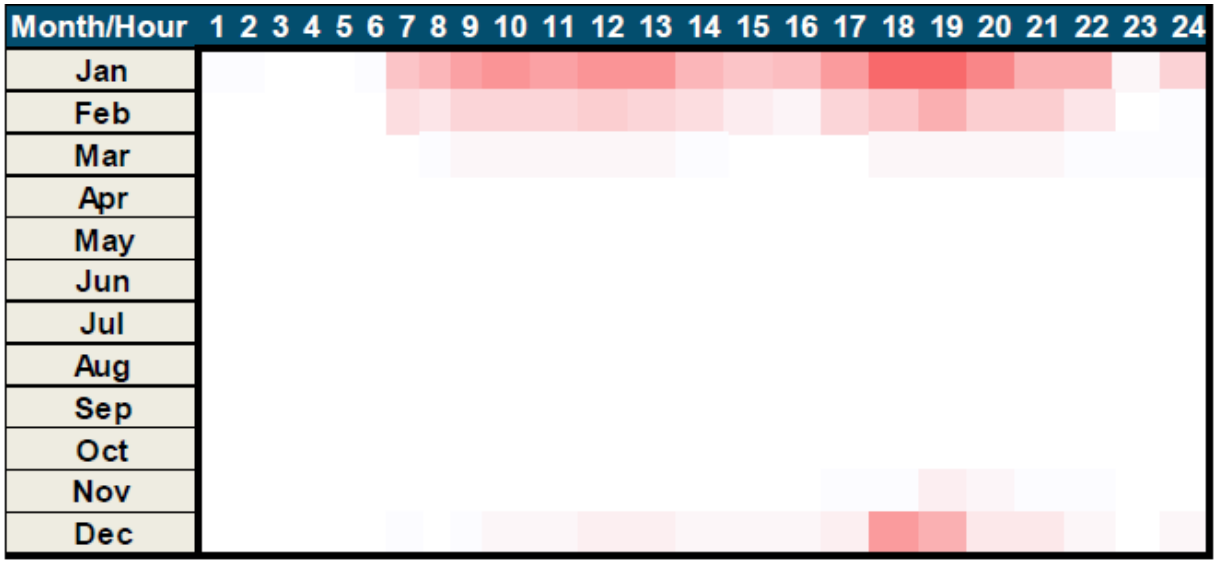
Response DR-3:

The ELCC values relied upon by NS Power in resource planning reflect the amount of perfect generation capacity needed to maintain the target resource adequacy measure, a loss of load expectation of 0.1 days per year, absent the supply side resource being assessed.

As a Winter peaking utility, LOLE is primarily driven by peak load events that result from cold weather and occur primarily in the winter months of December, January, and February in the morning and evening when electric heating loads are highest.[1] The below table, taken from the 2019 Planning Reserve Margin and Capacity Value Study, shows a heat map identifying the months and hours with the greatest loss of load probability. Since LOLE is calculated by completing a probabilistic assessment using many years of weather patterns and load profiles it is not representative of a single or small group of hours but rather captures the full range of anticipated system conditions over many years.

[1] Planning Reserve Margin and Capacity Value Study, Energy and Environmental Economics, Inc, July 2019, page 54

NON-CONFIDENTIAL



Request DR-4:

Please explain whether NS Power views run-of-river hydro (e.g., all but Wreck Cove) to function more like an intermittent resource (ELCC classification) or like a thermal/dispatchable resource (SLF classification).

Response DR-4:

Similar to the treatment of steam generation, all of NS Power's hydro generation is currently classified to energy based on the system load factor. There is no distinction made between run-of-river hydro and Wreck Cove in NS Power's COSS.

NS Power views its run-of-river hydro generation as a dispatchable resource because they are deemed to have sufficient pondage such that they are equivalent to firm resources from a reliability perspective. Their contribution to the system peak is evaluated using net dependable capacity.[1] Wreck Cove on the other hand is treated as a dispatch-limited resource whose contribution to system peak is assessed using the ELCC approach.

[1] Planning Reserve Maring and Capacity Value Study, July 2019 report provide by Energy Environmental Economics, Section 3.3.2 Hydro.

Request DR-5:

For each "peaking" unit, for each month in 2014-2023, please provide the following data:

(a) Starts

(b) Hours of operation

(c) Energy generation

(d) Monthly peak load on the unit, net of station power

Response DR-5:

Data is provided from 2018-2023. Data from 2014-2017 is not readily available.

(a-c) Please refer to Attachment 1.

(d) Please refer to Attachment 2.

Cost of Service Study Process DR-5 Attachment 1

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
2018	**14,606**	**902**	**344**
1	**3,671**	**205**	**64**
BS-1	1,304	57	24
BS-2	752	61	10
BS-3	1,296	70	19
TUS-1	143	8	7
VJ-1	101	4	2
VJ-2	75	4	2
2	**-18**	**19**	**11**
BS-1	-22	12	1
BS-2	38	7	9
BS-3	0	0	0
TUS-1	-26	0	0
VJ-1	8	0	1
VJ-2	-17	0	0
3	**-158**	**3**	**3**
BS-1	-10	2	1
BS-2	-45	1	1
BS-3	6	0	1
TUS-1	-50	0	0
VJ-1	-29	0	0
VJ-2	-30	0	0
4	**178**	**13**	**7**
BS-1	112	6	4
BS-2	86	7	1
BS-3	0	0	0
TUS-1	-24	0	1
VJ-1	16	0	1
VJ-2	-12	0	0
5	**149**	**12**	**13**
BS-1	60	4	2
BS-2	25	3	2
BS-3	36	2	3
TUS-1	-12	0	1
VJ-1	25	1	1
VJ-2	15	2	4
6	**59**	**10**	**8**
BS-1	-2	1	2
BS-2	55	4	2
BS-3	1	0	2
BS-4	0	2	0
TUS-1	-12	0	0
VJ-1	8	1	1
VJ-2	9	1	1
7	**1,203**	**64**	**26**
BS-1	179	9	6
BS-2	276	15	5
BS-3	407	22	8
BS-4	94	2	0
TUS-1	16	2	2
VJ-1	109	6	2
VJ-2	121	7	3

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
8	**4,682**	**277**	**59**
BS-1	756	48	13
BS-2	1,547	87	16
BS-3	1,616	92	19
BS-4	96	9	0
TUS-1	28	2	2
VJ-1	463	29	3
VJ-2	177	10	6
9	**516**	**30**	**24**
BS-1	57	3	4
BS-2	165	13	10
BS-3	189	11	7
BS-4	83	1	1
TUS-1	-11	0	0
VJ-1	31	1	1
VJ-2	1	0	1
10	**957**	**56**	**36**
BS-1	295	14	13
BS-2	240	13	11
BS-3	149	10	5
BS-4	191	14	3
TUS-1	-11	0	0
VJ-1	57	3	2
VJ-2	35	2	2
11	**1,729**	**106**	**39**
BS-1	653	39	13
BS-2	551	29	14
BS-3	303	18	6
BS-4	183	16	3
TUS-1	-21	0	0
VJ-1	51	4	2
VJ-2	10	1	1
12	**1,638**	**107**	**54**
BS-1	474	26	16
BS-2	454	23	14
BS-3	476	35	15
BS-4	250	21	8
TUS-1	-29	0	0
VJ-1	26	2	1
VJ-2	-13	0	0
2019	**5,230**	**313**	**183**
1	**2,499**	**126**	**38**
BS-1	677	35	11
BS-2	590	30	7
BS-3	525	23	7
BS-4	213	18	6
TUS-1	-27	0	0
VJ-1	449	16	4
VJ-2	71	4	3
2	**74**	**12**	**11**
BS-1	52	5	4
BS-2	94	4	3
BS-3	38	2	2
BS-4	-50	1	2

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
TUS-1	-28	0	0
VJ-1	-18	0	0
VJ-2	-14	0	0
3	**224**	**19**	**18**
BS-1	54	5	5
BS-2	131	6	6
BS-3	58	3	3
BS-4	-13	3	3
TUS-1	-25	0	0
VJ-1	-18	0	0
VJ-2	38	2	1
4	**-110**	**2**	**5**
BS-1	-52	0	1
BS-2	-22	0	0
BS-3	7	1	1
BS-4	-18	1	1
TUS-1	-21	0	0
VJ-1	-1	0	1
VJ-2	-4	0	1
5	**79**	**17**	**21**
BS-1	28	4	4
BS-2	0	2	3
BS-3	41	9	9
BS-4	26	2	4
TUS-1	-23	0	0
VJ-1	-4	0	0
VJ-2	11	2	1
6	**721**	**4**	**12**
BS-1	166	2	4
BS-2	559	0	2
BS-3	0	0	2
BS-4	-12	1	2
TUS-1	-23	0	0
VJ-1	34	0	2
VJ-2	-4	0	0
7	**156**	**14**	**13**
BS-1	139	9	5
BS-2	37	2	4
BS-3	13	1	2
BS-4	1	1	1
TUS-1	-23	0	0
VJ-1	-14	0	0
VJ-2	2	0	1
8	**293**	**22**	**14**
BS-1	205	11	4
BS-2	90	4	2
BS-3	17	5	2
BS-4	8	2	4
TUS-1	-33	0	0
VJ-1	10	0	2
VJ-2	-4	0	0
9	**200**	**16**	**11**
BS-1	95	7	4
BS-2	6	0	1

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
BS-3	64	4	2
BS-4	-10	1	1
TUS-1	-16	0	0
VJ-1	11	1	1
VJ-2	52	3	2
10	**630**	**34**	**12**
BS-1	268	13	2
BS-2	0	0	0
BS-3	132	8	2
BS-4	53	5	3
TUS-1	-18	0	0
VJ-1	153	6	3
VJ-2	41	2	2
11	**291**	**28**	**12**
BS-1	131	9	4
BS-2	0	0	0
BS-3	68	8	3
BS-4	5	4	3
TUS-1	-19	0	0
VJ-1	82	4	2
VJ-2	24	3	0
12	**172**	**18**	**16**
BS-1	87	6	5
BS-2	0	0	0
BS-3	52	4	3
BS-4	-43	2	3
TUS-1	-23	0	0
VJ-1	34	2	2
VJ-2	65	4	3
2020	**4,970**	**308**	**226**
1	**167**	**14**	**14**
BS-1	90	5	2
BS-2	174	3	3
BS-3	-36	2	2
BS-4	-39	3	5
TUS-1	0	0	0
VJ-1	5	1	1
VJ-2	-27	0	1
2	**-181**	**1**	**2**
BS-1	-52	0	0
BS-2	0	0	0
BS-3	-10	0	0
BS-4	-89	1	2
TUS-1	0	0	0
VJ-1	-16	0	0
VJ-2	-14	0	0
3	**-94**	**4**	**5**
BS-1	-20	2	1
BS-2	7	0	2
BS-3	12	1	2
BS-4	-63	0	0
TUS-1	0	0	0
VJ-1	-16	0	0
VJ-2	-14	0	0

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
4	**-20**	**5**	**13**
BS-1	-51	0	2
BS-2	23	1	2
BS-3	31	2	4
BS-4	-18	1	3
TUS-1	0	0	0
VJ-1	-2	0	1
VJ-2	-2	0	1
5	**-69**	**2**	**3**
BS-1	-44	0	0
BS-2	10	1	1
BS-3	19	1	1
BS-4	-37	0	0
TUS-1	0	0	0
VJ-1	-15	0	0
VJ-2	-3	0	1
6	**-63**	**0**	**2**
BS-1	-24	0	0
BS-2	2	0	1
BS-3	0	0	0
BS-4	-22	0	0
TUS-1	0	0	0
VJ-1	-15	0	0
VJ-2	-5	0	1
7	**464**	**30**	**25**
BS-1	85	5	4
BS-2	92	6	7
BS-3	120	8	5
BS-4	73	6	4
TUS-1	0	0	0
VJ-1	98	5	3
VJ-2	-4	0	2
8	**399**	**24**	**21**
BS-1	65	4	5
BS-2	52	3	4
BS-3	116	6	7
BS-4	25	3	3
TUS-1	0	0	0
VJ-1	63	3	1
VJ-2	78	4	1
9	**100**	**9**	**11**
BS-1	55	4	3
BS-2	14	1	2
BS-3	17	2	2
BS-4	14	2	2
TUS-1	0	0	0
VJ-1	3	0	1
VJ-2	-2	0	1
10	**714**	**46**	**33**
BS-1	244	16	10
BS-2	265	16	12
BS-3	110	6	5
BS-4	96	8	4
TUS-1	0	0	0

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
VJ-1	2	0	1
VJ-2	-3	0	1
11	**2,894**	**127**	**46**
BS-1	877	40	7
BS-2	593	27	9
BS-3	580	24	9
BS-4	483	26	10
TUS-1	0	0	0
VJ-1	171	7	5
VJ-2	190	2	6
12	**659**	**45**	**51**
BS-1	12	1	5
BS-2	165	9	9
BS-3	149	11	14
BS-4	167	13	12
TUS-1	133	8	7
VJ-1	28	1	2
VJ-2	6	1	2
2021	**6,913**	**477**	**384**
1	**1,396**	**86**	**51**
BS-1	179	12	19
BS-2	336	17	7
BS-3	204	12	7
BS-4	361	23	7
TUS-1	16	5	4
VJ-1	163	9	3
VJ-2	136	8	4
2	**353**	**29**	**38**
BS-1	40	4	8
BS-2	108	5	6
BS-3	4	2	7
BS-4	198	14	13
TUS-1	33	3	4
VJ-1	-18	0	0
VJ-2	-12	0	0
3	**230**	**23**	**32**
BS-1	8	3	7
BS-2	189	13	11
BS-3	41	3	7
BS-4	51	3	5
TUS-1	-43	0	0
VJ-1	-9	0	1
VJ-2	-7	0	1
4	**339**	**25**	**31**
BS-1	184	11	12
BS-2	119	8	7
BS-3	0	0	0
BS-4	90	5	10
TUS-1	-39	0	1
VJ-1	-6	0	1
VJ-2	-10	0	0
5	**-111**	**2**	**4**
BS-1	-34	1	1
BS-2	-31	1	1

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
BS-3	1	0	1
BS-4	0	0	0
TUS-1	-34	0	0
VJ-1	-6	1	1
VJ-2	-7	0	0
6	**275**	**23**	**19**
BS-1	28	3	4
BS-2	-14	1	3
BS-3	144	9	4
BS-4	99	6	5
TUS-1	-33	0	0
VJ-1	53	3	2
VJ-2	-1	0	1
7	**159**	**16**	**24**
BS-1	-20	0	0
BS-2	61	5	8
BS-3	9	1	6
BS-4	47	3	5
TUS-1	50	6	2
VJ-1	0	0	1
VJ-2	11	1	2
8	**984**	**66**	**53**
BS-1	-16	0	0
BS-2	256	18	11
BS-3	209	14	9
BS-4	236	15	12
TUS-1	135	10	9
VJ-1	99	5	7
VJ-2	67	5	5
9	**-22**	**4**	**8**
BS-1	-21	0	0
BS-2	-4	1	3
BS-3	7	1	2
BS-4	21	1	1
TUS-1	-7	1	2
VJ-1	-13	0	0
VJ-2	-4	0	0
10	**157**	**17**	**20**
BS-1	-40	0	0
BS-2	89	8	7
BS-3	63	4	4
BS-4	36	2	2
TUS-1	-18	1	3
VJ-1	9	1	2
VJ-2	16	1	2
11	**1,441**	**90**	**48**
BS-1	-29	1	3
BS-2	275	18	12
BS-3	443	25	13
BS-4	510	30	14
TUS-1	28	4	2
VJ-1	163	10	3
VJ-2	51	3	1
12	**1,712**	**97**	**56**

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
BS-1	225	14	9
BS-2	308	16	11
BS-3	643	34	13
BS-4	341	20	13
TUS-1	-23	1	2
VJ-1	75	4	5
VJ-2	143	8	3
2022	**21,931**	**1,157**	**477**
1	**9,100**	**495**	**103**
BS-1	2,212	119	24
BS-2	2,249	113	20
BS-3	2,057	105	21
BS-4	1,021	58	17
TUS-1	737	45	7
VJ-1	438	28	7
VJ-2	385	27	7
2	**2,725**	**89**	**53**
BS-1	153	10	6
BS-2	1,150	33	15
BS-3	1,079	26	13
BS-4	366	17	14
TUS-1	-38	0	1
VJ-1	-10	0	2
VJ-2	26	2	2
3	**1,334**	**71**	**47**
BS-1	-52	0	0
BS-2	258	11	11
BS-3	368	20	12
BS-4	492	24	15
TUS-1	-5	2	2
VJ-1	218	10	4
VJ-2	55	5	3
4	**114**	**14**	**20**
BS-1	0	0	0
BS-2	18	1	2
BS-3	17	4	6
BS-4	38	4	8
TUS-1	2	3	2
VJ-1	0	0	0
VJ-2	40	3	2
5	**-155**	**2**	**6**
BS-1	0	0	0
BS-2	21	1	1
BS-3	-52	1	2
BS-4	-46	0	2
TUS-1	-65	0	1
VJ-1	0	0	0
VJ-2	-13	0	0
6	**264**	**12**	**13**
BS-1	0	0	0
BS-2	62	4	5
BS-3	46	5	2
BS-4	16	2	2
TUS-1	-12	1	3

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
VJ-1	161	0	1
VJ-2	-9	0	0
7	**559**	**32**	**20**
BS-1	48	0	2
BS-2	127	6	7
BS-3	236	15	5
BS-4	186	10	6
TUS-1	-27	0	0
VJ-1	-8	0	0
VJ-2	-3	0	0
8	**866**	**50**	**33**
BS-1	166	8	5
BS-2	411	20	7
BS-3	195	13	8
BS-4	31	3	6
TUS-1	-51	0	0
VJ-1	71	4	4
VJ-2	43	3	3
9	**217**	**22**	**26**
BS-1	0	0	0
BS-2	167	8	15
BS-3	114	13	10
BS-4	-29	0	0
TUS-1	-22	0	1
VJ-1	-8	0	0
VJ-2	-5	0	0
10	**1,455**	**82**	**30**
BS-1	41	1	3
BS-2	790	38	12
BS-3	616	40	13
BS-4	-36	0	0
TUS-1	11	1	1
VJ-1	41	2	1
VJ-2	-9	0	0
11	**1,706**	**82**	**52**
BS-1	246	14	10
BS-2	441	25	13
BS-3	744	24	11
BS-4	-55	0	0
TUS-1	2	2	3
VJ-1	137	6	7
VJ-2	192	11	8
12	**3,746**	**206**	**74**
BS-1	979	50	16
BS-2	1,002	53	17
BS-3	883	49	15
BS-4	-60	0	0
TUS-1	298	19	7
VJ-1	361	18	11
VJ-2	284	18	8
2023	**11,923**	**699**	**392**
1	**2,550**	**125**	**61**
BS-1	854	45	21
BS-2	720	36	16

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
BS-3	460	25	12
BS-4	-63	0	0
TUS-1	-40	0	1
VJ-1	382	6	4
VJ-2	236	13	7
2	**4,633**	**253**	**81**
BS-1	1,033	52	19
BS-2	882	45	15
BS-3	1,095	57	17
BS-4	409	24	11
TUS-1	583	28	8
VJ-1	314	16	5
VJ-2	316	31	6
3	**172**	**31**	**23**
BS-1	62	5	6
BS-2	53	4	5
BS-3	77	6	4
BS-4	-4	2	3
TUS-1	-47	0	0
VJ-1	15	13	3
VJ-2	17	2	2
4	**855**	**45**	**28**
BS-1	252	13	8
BS-2	195	11	6
BS-3	70	5	4
BS-4	151	6	3
TUS-1	-36	0	0
VJ-1	95	4	3
VJ-2	128	7	4
5	**504**	**30**	**31**
BS-1	228	11	11
BS-2	95	5	4
BS-3	85	5	4
BS-4	-18	1	2
TUS-1	40	4	5
VJ-1	63	4	2
VJ-2	11	2	3
6	**836**	**51**	**22**
BS-1	161	10	5
BS-2	262	14	4
BS-3	123	8	4
BS-4	166	9	3
TUS-1	82	6	2
VJ-1	-18	0	0
VJ-2	60	4	4
7	**377**	**25**	**23**
BS-1	135	6	3
BS-2	35	2	3
BS-3	40	2	2
BS-4	13	2	3
TUS-1	44	6	8
VJ-1	7	1	1
VJ-2	102	6	3
8	**173**	**15**	**25**

Year / Month / Unit	Net Generation (MWh)	Unit Generating Hours	Unit Starts
BS-1	18	2	3
BS-2	94	6	7
BS-3	15	2	3
BS-4	49	4	6
TUS-1	-14	1	1
VJ-1	-5	1	3
VJ-2	16	1	2
9	**27**	**7**	**16**
BS-1	47	3	5
BS-2	8	1	1
BS-3	2	1	3
BS-4	-1	1	2
TUS-1	-24	0	2
VJ-1	-12	0	1
VJ-2	9	1	2
10	**114**	**10**	**12**
BS-1	19	2	4
BS-2	29	3	2
BS-3	45	3	3
BS-4	64	1	1
TUS-1	-31	0	1
VJ-1	-11	1	1
VJ-2	0	0	0
11	**138**	**15**	**16**
BS-1	40	6	3
BS-2	53	6	8
BS-3	21	1	1
BS-4	1	1	1
TUS-1	44	2	2
VJ-1	-20	0	0
VJ-2	-2	0	1
12	**1,543**	**90**	**54**
BS-1	333	21	11
BS-2	474	25	13
BS-3	262	15	9
BS-4	239	14	11
TUS-1	56	5	3
VJ-1	112	7	4
VJ-2	66	4	3

Max Load

		1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018	12/1/2018
Start													
End		2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018	12/1/2018	1/1/2019
Unit	PI Tag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BS-1	BURNSIDE_GT.14HBS1_MW.AN	32.8	22.0	28.8	30.6	27.5	25.0	26.2	26.2	27.2	31.8	31.5	32.9
BS-2	BURNSIDE_GT.14HBS2_MW.AN	31.2	18.7	29.1	27.9	27.3	27.8	25.7	25.3	29.3	30.1	29.8	31.7
BS-3	BURNSIDE_GT.14HBS3_MW.AN	33.5	0.0	29.6	0.0	25.2	16.3	26.2	26.0	28.0	30.9	29.5	33.0
BS-4	BURNSIDE_GT.14HBS4_MW.AN	0.0	0.0	0.0	0.0	25.4	28.0	22.0	24.9	25.4	28.3	28.9	27.4
VJ-1	VJGT.83SVJ1_MW.AN	33.9	17.3	2.0	29.9	19.4	30.6	20.1	22.6	17.7	21.8	28.8	19.0
VJ-2	VJGT.83SVJ2_MW.AN	32.6	0.0	0.0	0.0	30.6	29.0	27.4	26.4	15.4	20.8	16.4	0.0
TUS-1	TUSKET.10WTK4_MW.AN	31.0	0.0	0.0	15.9	24.5	0.3	20.1	21.8	0.0	0.0	0.0	0.0

Max Load

		1/1/2019	2/1/2019	3/1/2019	4/1/2019	5/1/2019	6/1/2019	7/1/2019	8/1/2019	9/1/2019	10/1/2019	11/1/2019	12/1/2019
Start													
End		2/1/2019	3/1/2019	4/1/2019	5/1/2019	6/1/2019	7/1/2019	8/1/2019	9/1/2019	10/1/2019	11/1/2019	12/1/2019	1/1/2020
Unit	PI Tag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BS-1	BURNSIDE_GT.14HBS1_MW.AN	33.3	32.7	31.8	15.7	30.0	25.8	25.1	25.8	27.0	29.3	31.9	31.8
BS-2	BURNSIDE_GT.14HBS2_MW.AN	31.5	31.3	31.1	1.6	28.2	15.4	23.7	25.2	23.8	0.0	0.0	1.9
BS-3	BURNSIDE_GT.14HBS3_MW.AN	33.8	33.0	32.0	15.2	29.2	22.7	24.2	25.3	28.0	29.5	32.4	32.6
BS-4	BURNSIDE_GT.14HBS4_MW.AN	28.1	27.9	30.5	16.3	26.1	25.3	23.7	23.5	26.5	26.4	28.8	29.4
VJ-1	VJGT.83SVJ1_MW.AN	32.3	0.9	0.9	18.0	1.6	25.8	1.0	18.7	21.4	31.2	31.0	30.8
VJ-2	VJGT.83SVJ2_MW.AN	32.1	0.0	32.9	15.2	29.5	0.0	17.3	0.0	24.4	26.6	20.2	24.7
TUS-1	TUSKET.10WTK4_MW.AN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Max Load

Start		1/1/2020	2/1/2020	3/1/2020	4/1/2020	5/1/2020	6/1/2020	7/1/2020	8/1/2020	9/1/2020	10/1/2020	11/1/2020	12/1/2020
End		2/1/2020	3/1/2020	4/1/2020	5/1/2020	6/1/2020	7/1/2020	8/1/2020	9/1/2020	10/1/2020	11/1/2020	12/1/2020	1/1/2021
Unit	PI Tag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BS-1	BURNSIDE_GT.14HBS1_MW.AN	31.1	0.0	32.7	16.2	0.0	0.0	23.1	21.3	29.0	31.3	32.4	29.8
BS-2	BURNSIDE_GT.14HBS2_MW.AN	29.6	1.4	19.3	28.5	25.5	24.7	24.2	21.2	25.8	30.0	31.1	30.7
BS-3	BURNSIDE_GT.14HBS3_MW.AN	31.0	0.0	21.2	29.8	26.4	0.0	25.2	27.8	25.8	29.9	32.6	32.0
BS-4	BURNSIDE_GT.14HBS4_MW.AN	27.9	22.7	0.0	26.4	0.0	0.0	23.0	21.0	27.4	28.0	33.0	31.8
VJ-1	VJGT.83SVJ1_MW.AN	18.9	2.2	2.3	18.6	0.9	0.5	21.7	26.6	17.1	19.1	33.0	27.8
VJ-2	VJGT.83SVJ2_MW.AN	16.9	-0.5	1.4	16.1	17.7	15.4	17.9	25.0	16.2	15.6	31.1	23.1
TUS-1	TUSKET.10WTK4_MW.AN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8

Max Load

		1/1/2021	2/1/2021	3/1/2021	4/1/2021	5/1/2021	6/1/2021	7/1/2021	8/1/2021	9/1/2021	10/1/2021	11/1/2021	12/1/2021
Start													
End		2/1/2021	3/1/2021	4/1/2021	5/1/2021	6/1/2021	7/1/2021	8/1/2021	9/1/2021	10/1/2021	11/1/2021	12/1/2021	1/1/2022
Unit	PI Tag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BS-1	BURNSIDE_GT.14HBS1_MW.AN	30.9	31.7	30.9	30.5	27.8	24.5	-0.1	-0.1	-0.1	-0.1	28.7	32.4
BS-2	BURNSIDE_GT.14HBS2_MW.AN	29.8	30.6	31.7	29.3	27.6	22.6	26.4	24.4	19.1	29.4	29.7	31.6
BS-3	BURNSIDE_GT.14HBS3_MW.AN	31.2	31.9	30.8	0.0	15.5	29.2	20.8	24.4	16.0	24.7	31.2	32.9
BS-4	BURNSIDE_GT.14HBS4_MW.AN	31.8	33.2	32.3	30.5	0.0	29.8	29.6	27.1	16.5	26.8	32.0	33.3
VJ-1	VJGT.83SVJ1_MW.AN	31.5	0.4	25.6	20.7	27.0	20.4	17.9	23.8	0.0	21.2	30.5	31.9
VJ-2	VJGT.83SVJ2_MW.AN	29.6	0.0	16.1	0.0	0.0	20.3	22.1	24.6	0.0	26.4	28.3	30.8
TUS-1	TUSKET.10WTK4_MW.AN	30.1	31.0	0.0	15.4	0.0	0.0	16.7	25.9	18.6	18.9	28.3	16.0

Max Load

Start		1/1/2022	2/1/2022	3/1/2022	4/1/2022	5/1/2022	6/1/2022	7/1/2022	8/1/2022	9/1/2022	10/1/2022	11/1/2022	12/1/2022
End		2/1/2022	3/1/2022	4/1/2022	5/1/2022	6/1/2022	7/1/2022	8/1/2022	9/1/2022	10/1/2022	11/1/2022	12/1/2022	1/1/2023
Unit	PI Tag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BS-1	BURNSIDE_GT.14HBS1_MW.AN	32.1	32.0	0.0	0.0	0.0	0.0	23.8	25.3	-0.1	27.0	30.4	31.4
BS-2	BURNSIDE_GT.14HBS2_MW.AN	31.8	32.5	30.5	26.3	27.3	27.3	25.1	25.5	26.4	29.2	30.8	31.3
BS-3	BURNSIDE_GT.14HBS3_MW.AN	33.9	34.1	32.4	30.3	30.4	28.6	27.0	25.2	27.1	28.7	29.6	31.8
BS-4	BURNSIDE_GT.14HBS4_MW.AN	33.5	34.1	33.8	31.1	28.1	29.2	28.3	25.0	0.0	0.0	0.0	0.0
VJ-1	VJGT.83SVJ1_MW.AN	31.4	18.3	32.1	0.0	0.0	26.2	0.0	24.1	0.5	25.6	28.5	28.9
VJ-2	VJGT.83SVJ2_MW.AN	32.4	31.8	31.2	28.5	0.0	0.0	0.0	20.2	0.0	-0.4	30.0	30.9
TUS-1	TUSKET.10WTK4_MW.AN	31.0	30.9	26.3	26.4	17.0	21.3	0.0	0.0	20.9	17.4	29.9	30.4

Max Load

		1/1/2023	2/1/2023	3/1/2023	4/1/2023	5/1/2023	6/1/2023	7/1/2023	8/1/2023	9/1/2023	10/1/2023	11/1/2023	12/1/2023
Start													
End		2/1/2023	3/1/2023	4/1/2023	5/1/2023	6/1/2023	7/1/2023	8/1/2023	9/1/2023	10/1/2023	11/1/2023	12/1/2023	1/1/2024
Unit	PI Tag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BS-1	BURNSIDE_GT.14HBS1_MW.AN	31.1	32.6	30.6	29.4	28.6	26.6	25.9	25.1	25.2	30.3	29.5	31.3
BS-2	BURNSIDE_GT.14HBS2_MW.AN	30.6	31.4	30.0	29.0	28.5	25.6	24.5	24.4	16.4	29.3	27.7	31.0
BS-3	BURNSIDE_GT.14HBS3_MW.AN	31.5	34.2	32.0	29.0	29.8	28.0	26.5	26.1	26.1	29.8	25.6	30.4
BS-4	BURNSIDE_GT.14HBS4_MW.AN	22.3	33.2	29.8	31.8	23.3	29.2	28.2	28.3	23.0	29.6	26.1	30.1
VJ-1	VJGT.83SVJ1_MW.AN	28.8	32.2	29.0	27.8	26.2	0.4	23.3	24.4	22.6	22.6	0.2	28.1
VJ-2	VJGT.83SVJ2_MW.AN	31.1	33.9	28.7	29.5	22.8	27.1	25.6	25.1	24.5	0.0	18.1	30.7
TUS-1	TUSKET.10WTK4_MW.AN	18.5	31.3	0.0	0.0	28.1	26.1	25.2	24.8	24.8	6.9	27.0	31.0

NON-CONFIDENTIAL

Request DR-6:

Please provide NS Power's estimated cost for a benchmark greenfield "peaker" plant using liquid or gas fuel, considering the technology and fuel choice considered to be most likely for future investments.

(a) Please break the cost down by generation plant, interconnection costs, and fuel-related infrastructure costs (tanks, loading facilities, pipelines, etc.).

(b) Please identify any date beyond which NS Power views it as unlikely that it will build such plants under current regulations.

Response DR-6:

(a) Please refer to SBA DR-2 for estimated costs for the lowest capital cost peaking natural gas fired combustion turbine as per the most recent IRP. NS Power does not have the cost break down requested.

(b) NS Power cannot identify a date beyond which it is unlikely that it will build such plants. Under current regulations, fast acting generation is a viable solution to compliment intermittent renewable generation and provide firm capacity. Current information about the Clean Energy Regulations, in development by Environment and Climate Change Canada, indicates there will continue to be a place for natural gas-fired units to meet peak demand.[1]

[1] https://www.canada.ca/content/dam/eccc/documents/pdf/climate-change/clean-fuel/electricity/clean-electricity-regulations-public-update-16022024.pdf

Request DR-7:

Please provide NS Power's estimated cost for a benchmark greenfield battery storage unit providing capacity and energy arbitrage services, and excluding upgrade costs for grid forming, black start, and other advanced capabilities.

(a) Please break the cost down by generation plant and interconnection costs.

Response DR-7:

During the 2022 Evergreen IRP NS Power used $1,632 per kw ($2022 dollars) as its benchmark price for a greenfield four (4) hour lithium ion battery. This value was selected after surveying a number of different industry benchmarks.[1]

Since the 2022 Evergreen IRP, industry benchmarks for battery energy storage systems have increased. As an example, the overnight capital cost used in the 2022 Evergreen IRP most closely aligns with the NREL benchmark cost estimate for BESS at that time. NREL's current estimate for a utility-scale 4 hour battery storage systems is $1,639 USD (in 2021 dollars) per kW. This is equal to $2,356 CAD (in 2022 dollars) per kW when adjusting for exchange rate (using a $1.35 USD exchange rate) and inflation (using the US Bureau of Labour consumer price index of 6.5% for 2022).

(a) NREL does not provide the details necessary to break its cost estimates down by generation plant and interconnection costs, but based on NS Power's experience with its BESS capital project, $93 per kW (in 2024 dollars) is a reasonable estimate for the interconnection costs for a greenfield BESS site. All other costs would be generation plant.

[1] https://www.nspower.ca/docs/default-source/irp/2022-evergreen-irp-updated-assumptions-january-2023-update.pdf, Slide 17

Request DR-8:

Please provide bulk electric system reliability event data for the past ten years, including the time the event began and ended, including the following data. If NS Power uses different classifications for such events, please explain the response accordingly.

(a) System warnings and emergencies. In the case of emergencies that resulted in blackouts, please identify the affected load by hour.

(b) Demand response or load interruption events.

(c) System alerts, including requests to customers for voluntary reductions in power use.

(d) Internal system alerts requiring suspension of non-essential maintenance activities, particularly to generation and transmission assets, to maximize availability during any period of anticipated grid stress.

Response DR-8:

(a) Data is provided for events primarily involving the NS Power capacity and energy emergency procedure. These notifications are issued to large industrial customers when operating reserves drop below reliability requirements or are expected to drop below requirement given the prevailing system conditions and load trends. This data is available for 2017 to 2023. Data prior to 2017 is not available. These notification details are provided on the "Capacity" tab of Attachment 1.

During this period, there were two events involving automatic load rejection causing customer outages for under-frequency conditions due to the loss of transmission. These event dates are listed on the UFLS tab of Attachment 1.

Additionally, there were eight Level 4 major storms that affected the bulk electric system and caused customer outages. The dates of these events are provided on the "Major Storms" tab of Attachment 1.

During this period there were no system blackouts.

(b) Events involving industrial load interruptions are indicated on the "Interruptions" tab of Attachment 1.

There is also a pilot program called Critical Peak Pricing intended to reduce residential and commercial customer demand during periods of predicted high demand. These activation dates are listed on the "CPP" tab of Attachment 1.[1]

(c) During this period, there were no public alerts or requests for voluntary reductions in power use.

(d) During system capacity and energy emergency events, there is typically an internal declaration of "Quiet Time" where non-essential maintenance activities are suspended. These events have not been tabulated and gathering this data would be a significant and time intensive undertaking.

[1] CPP events are also listed on NS Power's website at Critical Peak Events | Nova Scotia Power (nspower.ca)

Message log for Industrial Load Management Procedure 2017 - 2023

Message	Time
Advisory Notification GRLF	Wed 10-May-17 4:04
Advisory Notification LIIR	Wed 10-May-17 4:05
Advisory Cancellation LIIR	Wed 10-May-17 5:00
Advisory Cancellation GRLF	Wed 10-May-17 5:00
Advisory Notification GRLF	Mon 25-Sep-17 9:54
Advisory Notification LIIR	Mon 25-Sep-17 9:55
Advisory Cancellation LIIR	Mon 25-Sep-17 11:21
Advisory Cancellation GRLF	Mon 25-Sep-17 11:22
Advisory Notification GRLF	Tue 26-Sep-17 10:39
Advisory Notification LIIR	Tue 26-Sep-17 10:40
Alert Notification GRLF	Tue 26-Sep-17 15:59
Alert Notification LIIR	Tue 26-Sep-17 16:00
Alert Cancellation LIIR	Tue 26-Sep-17 20:25
Alert Cancellation GRLF	Tue 26-Sep-17 20:26
Advisory Cancellation LIIR	Tue 26-Sep-17 21:11
Advisory Cancellation GRLF	Tue 26-Sep-17 21:11
Advisory Notification GRLF	Tue 7-Nov-17 17:22
Advisory Notification LIIR	Tue 7-Nov-17 17:23
Advisory Cancellation LIIR	Tue 7-Nov-17 19:51
Advisory Cancellation GRLF	Tue 7-Nov-17 19:52
Advisory Notification GRLF	Mon 8-Jan-18 16:59
Alert Notification GRLF	Mon 8-Jan-18 16:59
Advisory Notification LIIR	Mon 8-Jan-18 17:00
Alert Cancellation LIIR	Mon 8-Jan-18 17:00
Alert Notification LIIR	Mon 8-Jan-18 17:36
Alert Cancellation LIIR	Mon 8-Jan-18 19:28
Advisory Cancellation LIIR	Mon 8-Jan-18 19:29
Alert Cancellation GRLF	Mon 8-Jan-18 19:29
Advisory Cancellation GRLF	Mon 8-Jan-18 19:30
Advisory Notification GRLF	Mon 16-Jul-18 15:56
Advisory Notification LIIR	Mon 16-Jul-18 15:56
Alert Notification GRLF	Mon 16-Jul-18 16:45
Alert Notification LIIR	Mon 16-Jul-18 16:46
Alert Cancellation LIIR	Mon 16-Jul-18 19:23
Alert Cancellation GRLF	Mon 16-Jul-18 19:23

Message	Time
Advisory Cancellation LIIR	Mon 16-Jul-18 19:26
Advisory Cancellation GRLF	Mon 16-Jul-18 19:27
Advisory Notification GRLF	Tue 17-Jul-18 10:40
Advisory Notification LIIR	Tue 17-Jul-18 10:47
Advisory Cancellation LIIR	Tue 17-Jul-18 15:08
Advisory Cancellation GRLF	Tue 17-Jul-18 15:09
Advisory Notification GRLF	Tue 7-Aug-18 12:39
Advisory Notification LIIR	Tue 7-Aug-18 12:39
Alert Notification GRLF	Tue 7-Aug-18 16:16
Alert Notification LIIR	Tue 7-Aug-18 16:17
Alert Cancellation LIIR	Tue 7-Aug-18 21:12
Alert Cancellation GRLF	Tue 7-Aug-18 21:13
Advisory Cancellation LIIR	Tue 7-Aug-18 21:13
Advisory Cancellation GRLF	Tue 7-Aug-18 21:14
Advisory Notification GRLF	Wed 8-Aug-18 14:43
Advisory Notification LIIR	Wed 8-Aug-18 14:44
Advisory Cancellation GRLF	Wed 8-Aug-18 21:53
Advisory Cancellation LIIR	Wed 8-Aug-18 21:55
Advisory Notification GRLF	Tue 23-Oct-18 17:02
Advisory Notification LIIR	Tue 23-Oct-18 17:02
Advisory Cancellation LIIR	Tue 23-Oct-18 20:44
Advisory Cancellation GRLF	Tue 23-Oct-18 20:44
Advisory Notification GRLF	Tue 13-Nov-18 8:02
Advisory Notification LIIR	Tue 13-Nov-18 8:03
Advisory Cancellation LIIR	Tue 13-Nov-18 9:29
Advisory Cancellation GRLF	Tue 13-Nov-18 9:30
Advisory Notification GRLF	Sun 18-Nov-18 16:50
Advisory Notification LIIR	Sun 18-Nov-18 16:51
Alert Notification GRLF	Sun 18-Nov-18 16:56
Alert Notification LIIR	Sun 18-Nov-18 16:57
Alert Cancellation LIIR	Sun 18-Nov-18 21:05
Alert Cancellation GRLF	Sun 18-Nov-18 21:05
Advisory Cancellation LIIR	Sun 18-Nov-18 21:06
Advisory Cancellation GRLF	Sun 18-Nov-18 21:06
Advisory Notification GRLF	Mon 19-Nov-18 6:30
Advisory Notification LIIR	Mon 19-Nov-18 6:30

Message	Time
Alert Notification GRLF	Mon 19-Nov-18 17:16
Alert Notification LIIR	Mon 19-Nov-18 17:17
Alert Cancellation LIIR	Mon 19-Nov-18 19:55
Alert Cancellation GRLF	Mon 19-Nov-18 19:55
Advisory Cancellation LIIR	Mon 19-Nov-18 20:20
Advisory Cancellation GRLF	Mon 19-Nov-18 20:21
Advisory Notification GRLF	Sun 25-Nov-18 8:53
Advisory Notification LIIR	Sun 25-Nov-18 8:53
Advisory Cancellation LIIR	Sun 25-Nov-18 10:52
Advisory Cancellation GRLF	Sun 25-Nov-18 10:52
Interruption Notification GRLF	Thu 29-Nov-18 7:28
Interruption Notification LIIR Team Blue 21 MW	Thu 29-Nov-18 7:29
Interruption Notification LIIR Team Red 18 MW	Thu 29-Nov-18 7:30
Interruption Notification LIIR Team Yellow 15 MW	Thu 29-Nov-18 7:30
Reserve Activation CALL PHP	Thu 29-Nov-18 7:31
LIIR Reserve Activation I 12 MW	Thu 29-Nov-18 7:32
LIIR Reserve Activation II 13 MW	Thu 29-Nov-18 7:32
LIIR Reserve Activation III 21 MW	Thu 29-Nov-18 7:33
RESTORE LIIR Reserve Activation I 12 MW	Thu 29-Nov-18 14:24
LIIR Reserve Activation II 13 MW	Thu 29-Nov-18 14:25
LIIR Reserve Activation III 21 MW	Thu 29-Nov-18 14:26
RESTORE Reserve CALL PHP	Thu 29-Nov-18 14:27
RESTORE LIIR Reserve Activation II 13 MW	Thu 29-Nov-18 14:35
RESTORE LIIR Reserve Activation III 21 MW	Thu 29-Nov-18 14:35
CANCEL SUPPLY Interruption LIIR Team Blue	Thu 29-Nov-18 14:40
CANCEL SUPPLY Interruption LIIR Team Red	Thu 29-Nov-18 14:40
CANCEL SUPPLY Interruption LIIR Team Yellow	Thu 29-Nov-18 14:41
CANCEL SUPPLY Interruption GRLF	Thu 29-Nov-18 14:41
Alert Cancellation LIIR	Thu 29-Nov-18 15:00
Alert Cancellation GRLF	Thu 29-Nov-18 19:29
Advisory Cancellation LIIR	Fri 30-Nov-18 3:29
Advisory Cancellation GRLF	Fri 30-Nov-18 3:29
Advisory Notification GRLF	Mon 3-Dec-18 16:48
Advisory Notification LIIR	Mon 3-Dec-18 16:49
Advisory Cancellation LIIR	Mon 3-Dec-18 18:49
Advisory Cancellation GRLF	Mon 3-Dec-18 18:50
Advisory Notification GRLF	Fri 7-Dec-18 6:54
Advisory Notification LIIR	Fri 7-Dec-18 6:55
Alert Notification GRLF	Fri 7-Dec-18 7:19

Message	Time
Alert Notification LIIR	Fri 7-Dec-18 7:19
Alert Cancellation LIIR	Fri 7-Dec-18 8:27
Alert Cancellation GRLF	Fri 7-Dec-18 8:27
Advisory Cancellation LIIR	Fri 7-Dec-18 10:14
Advisory Cancellation GRLF	Fri 7-Dec-18 10:14
Advisory Notification GRLF	Sat 8-Dec-18 17:19
Advisory Notification LIIR	Sat 8-Dec-18 17:19
Advisory Cancellation LIIR	Sat 8-Dec-18 18:24
Advisory Cancellation GRLF	Sat 8-Dec-18 18:24
Advisory Notification GRLF	Fri 28-Dec-18 9:35
Advisory Notification LIIR	Fri 28-Dec-18 9:36
Alert Notification GRLF	Fri 28-Dec-18 9:39
Alert Notification LIIR	Fri 28-Dec-18 9:39
Alert Cancellation LIIR	Fri 28-Dec-18 13:03
Advisory Cancellation LIIR	Fri 28-Dec-18 13:03
Alert Cancellation GRLF	Fri 28-Dec-18 13:04
Advisory Cancellation GRLF	Fri 28-Dec-18 13:04
Advisory Notification GRLF	Thu 3-Jan-19 5:00
Advisory Notification LIIR	Thu 3-Jan-19 5:00
Alert Notification GRLF	Thu 3-Jan-19 6:17
Alert Notification LIIR	Thu 3-Jan-19 6:17
Alert Cancellation LIIR	Thu 3-Jan-19 13:11
Alert Cancellation GRLF	Thu 3-Jan-19 13:11
Advisory Cancellation LIIR	Thu 3-Jan-19 18:26
Advisory Cancellation GRLF	Thu 3-Jan-19 18:27
Advisory Notification GRLF	Mon 14-Jan-19 7:26
Advisory Notification LIIR	Mon 14-Jan-19 7:27
Advisory Cancellation LIIR	Mon 14-Jan-19 9:03
Advisory Cancellation GRLF	Mon 14-Jan-19 9:05
Advisory Notification GRLF	Fri 15-Feb-19 6:59
Advisory Notification LIIR	Fri 15-Feb-19 6:59
Advisory Cancellation LIIR	Fri 15-Feb-19 8:57
Advisory Cancellation GRLF	Fri 15-Feb-19 8:58
Advisory Notification GRLF	Sat 2-Mar-19 8:40
Advisory Notification LIIR	Sat 2-Mar-19 8:41
Advisory Cancellation LIIR	Sat 2-Mar-19 10:11
Advisory Cancellation GRLF	Sat 2-Mar-19 10:11

Message	Time
Advisory GRLF	Fri 10-May-19 8:16
Advisory LIIR	Fri 10-May-19 8:39
Advisory Cancellation GRLF	Fri 10-May-19 10:06
Advisory Cancellation LIIR	Fri 10-May-19 10:06
Advisory GRLF and Shore	Sat 11-May-19 8:17
Advisory LIIR	Sat 11-May-19 8:18
Advisory Cancellation GRLF and Shore	Sat 11-May-19 13:10
Advisory Cancellation LIIR	Sat 11-May-19 13:11
Advisory GRLF and Shore	Sun 12-May-19 20:52
Advisory LIIR	Sun 12-May-19 20:53
Advisory Cancellation GRLF and Shore	Sun 12-May-19 22:07
Advisory Cancellation LIIR	Sun 12-May-19 22:07
Advisory GRLF and Shore	Mon 13-May-19 10:42
Advisory LIIR	Mon 13-May-19 10:43
Advisory Cancellation GRLF and Shore	Mon 13-May-19 13:39
Advisory Cancellation LIIR	Mon 13-May-19 13:40
Advisory Cancellation LIIR	Mon 13-May-19 13:46
Advisory GRLF and Shore	Mon 20-May-19 16:40
Advisory LIIR	Mon 20-May-19 16:41
Advisory Cancellation GRLF and Shore	Mon 20-May-19 21:12
Advisory Cancellation LIIR	Mon 20-May-19 21:13
Advisory GRLF and Shore	Thu 26-Sep-19 10:06
Advisory LIIR	Thu 26-Sep-19 10:06
Alert GRLF and Shore	Thu 26-Sep-19 10:07
Alert LIIR	Thu 26-Sep-19 10:07
Advisory LIIR T and C	Thu 26-Sep-19 10:09
Advisory Cancellation LIIR T and C	Thu 26-Sep-19 19:49
Alert Cancellation LIIR	Thu 26-Sep-19 19:50
Alert Cancellation GRLF and Shore	Thu 26-Sep-19 19:51
Advisory Cancellation LIIR	Thu 26-Sep-19 19:51
Advisory Cancellation GRLF and Shore	Thu 26-Sep-19 19:52
Advisory GRLF and Shore	Thu 14-Nov-19 7:33
Advisory LIIR	Thu 14-Nov-19 7:33
Advisory LIIR T and C	Thu 14-Nov-19 7:42
Alert GRLF and Shore	Thu 14-Nov-19 7:43
Alert LIIR	Thu 14-Nov-19 7:44

Message	Time
Alert Cancellation LIIR	Thu 14-Nov-19 11:02
Alert Cancellation GRLF and Shore	Thu 14-Nov-19 11:03
Advisory Cancellation LIIR T and C	Thu 14-Nov-19 11:04
Advisory Cancellation LIIR	Thu 14-Nov-19 18:35
Advisory Cancellation GRLF and Shore	Thu 14-Nov-19 18:41
Alert GRLF and Shore	Tue 19-Nov-19 16:59
Alert LIIR	Tue 19-Nov-19 17:00
Advisory LIIR T and C	Tue 19-Nov-19 17:00
Alert Cancellation LIIR	Tue 19-Nov-19 19:41
Alert Cancellation GRLF and Shore	Tue 19-Nov-19 19:41
Advisory Cancellation LIIR T and C	Tue 19-Nov-19 19:42
Advisory Cancellation GRLF and Shore	Tue 19-Nov-19 20:04
Advisory Cancellation LIIR	Tue 19-Nov-19 20:04
Advisory GRLF and Shore	Wed 22-Jan-20 7:25
Advisory LIIR	Wed 22-Jan-20 7:26
Advisory Cancellation LIIR	Wed 22-Jan-20 9:50
Advisory Cancellation GRLF and Shore	Wed 22-Jan-20 9:50
Advisory GRLF and Shore	Mon 13-Jul-20 12:04
Advisory LIIR	Mon 13-Jul-20 12:05
Advisory Cancellation GRLF and Shore	Mon 13-Jul-20 22:27
Advisory Cancellation LIIR	Mon 13-Jul-20 22:27
Advisory GRLF and Shore	Tue 21-Jul-20 11:09
Advisory LIIR	Tue 21-Jul-20 11:09
Alert GRLF and Shore	Tue 21-Jul-20 11:35
Alert LIIR	Tue 21-Jul-20 11:36
Advisory LIIR T and C	Tue 21-Jul-20 11:36
Alert Cancellation GRLF and Shore	Tue 21-Jul-20 14:09
Advisory Cancellation LIIR T and C	Tue 21-Jul-20 14:12
Advisory Cancellation LIIR	Tue 21-Jul-20 14:13
Advisory Cancellation GRLF and Shore	Tue 21-Jul-20 14:13
Advisory GRLF and Shore	Mon 12-Oct-20 10:08
Advisory LIIR	Mon 12-Oct-20 10:08
Advisory Cancellation GRLF and Shore	Mon 12-Oct-20 14:41
Advisory Cancellation LIIR	Mon 12-Oct-20 14:41
Advisory GRLF and Shore	Mon 19-Oct-20 9:53
Advisory LIIR	Mon 19-Oct-20 9:53
Advisory Cancellation LIIR	Mon 19-Oct-20 21:21

Message	Time
Advisory Cancellation GRLF and Shore	Mon 19-Oct-20 21:22
Advisory GRLF and Shore	Tue 20-Oct-20 8:24
Advisory LIIR	Tue 20-Oct-20 8:24
Advisory Cancellation GRLF and Shore	Tue 20-Oct-20 9:07
Advisory Cancellation LIIR	Tue 20-Oct-20 9:07
Advisory GRLF and Shore	Wed 28-Oct-20 7:46
Advisory LIIR	Wed 28-Oct-20 7:46
Advisory Cancellation LIIR	Wed 28-Oct-20 10:19
Advisory Cancellation GRLF and Shore	Wed 28-Oct-20 10:19
Advisory GRLF and Shore	Wed 4-Nov-20 6:50
Advisory LIIR	Wed 4-Nov-20 6:50
Advisory Cancellation GRLF and Shore	Wed 4-Nov-20 19:27
Advisory Cancellation LIIR	Wed 4-Nov-20 19:27
Advisory LIIR	Wed 9-Dec-20 16:24
Advisory Cancellation LIIR	Wed 9-Dec-20 19:05
Advisory LIIR	Thu 10-Dec-20 16:22
Advisory Cancellation LIIR	Thu 10-Dec-20 18:09
Advisory LIIR	Sun 20-Dec-20 9:07
Advisory Cancellation LIIR	Sun 20-Dec-20 12:54
Advisory GRLF and Shore	Fri 8-Jan-21 12:46
Advisory LIIR	Fri 8-Jan-21 12:47
Alert GRLF and Shore	Fri 8-Jan-21 12:48
Alert LIIR	Fri 8-Jan-21 12:48
Advisory LIIR T and C	Fri 8-Jan-21 13:23
Advisory Cancellation LIIR T and C	Fri 8-Jan-21 21:07
Alert Cancellation LIIR	Fri 8-Jan-21 21:08
Alert Cancellation GRLF and Shore	Fri 8-Jan-21 21:08
Advisory Cancellation LIIR	Fri 8-Jan-21 21:11
Advisory Cancellation GRLF and Shore	Fri 8-Jan-21 21:11
Advisory GRLF and Shore	Sat 9-Jan-21 7:10
Advisory LIIR	Sat 9-Jan-21 7:10
Alert GRLF and Shore	Sat 9-Jan-21 8:53
Alert LIIR	Sat 9-Jan-21 8:53
Advisory LIIR T and C	Sat 9-Jan-21 8:54
Advisory Cancellation LIIR T and C	Sat 9-Jan-21 11:43

Message	Time
Alert Cancellation LIIR	Sat 9-Jan-21 11:43
Alert Cancellation GRLF and Shore	Sat 9-Jan-21 11:43
Advisory Cancellation LIIR	Sat 9-Jan-21 11:44
Advisory Cancellation GRLF and Shore	Sat 9-Jan-21 11:44
Advisory GRLF and Shore	Sat 9-Jan-21 17:09
Advisory LIIR	Sat 9-Jan-21 17:10
Alert GRLF and Shore	Sat 9-Jan-21 17:10
Advisory LIIR T and C	Sat 9-Jan-21 17:19
Alert LIIR	Sat 9-Jan-21 17:19
Alert LIIR T and C	Sat 9-Jan-21 17:20
Interruption GRLF and Shore	Sat 9-Jan-21 17:20
Interruption LIIR Team Yellow 15 MW	Sat 9-Jan-21 17:21
Interruption LIIR Team Blue 21 MW	Sat 9-Jan-21 17:21
Interruption LIIR Team Red 18 MW	Sat 9-Jan-21 17:22
RESTORE LIIR Team Yellow	Sat 9-Jan-21 18:06
RESTORE LIIR Team Blue	Sat 9-Jan-21 18:14
RESTORE LIIR Team Red	Sat 9-Jan-21 18:20
RESTORE GRLF and Shore	Sat 9-Jan-21 18:29
Alert Cancellation LIIR T and C	Sat 9-Jan-21 20:40
Alert Cancellation LIIR	Sat 9-Jan-21 20:40
Advisory Cancellation LIIR T and C	Sat 9-Jan-21 20:41
Alert Cancellation GRLF and Shore	Sat 9-Jan-21 20:41
Advisory Cancellation LIIR	Sat 9-Jan-21 20:42
Advisory Cancellation GRLF and Shore	Sat 9-Jan-21 20:42
Advisory GRLF and Shore	Mon 11-Jan-21 7:07
Advisory LIIR	Mon 11-Jan-21 7:07
Alert GRLF and Shore	Mon 11-Jan-21 7:34
Alert LIIR	Mon 11-Jan-21 7:35
Advisory LIIR T and C	Mon 11-Jan-21 7:35
Advisory Cancellation GRLF and Shore	Mon 11-Jan-21 10:08
Advisory Cancellation LIIR	Mon 11-Jan-21 10:08
Advisory Cancellation LIIR	Mon 11-Jan-21 10:09
Alert Cancellation GRLF and Shore	Mon 11-Jan-21 10:10
Alert Cancellation LIIR	Mon 11-Jan-21 10:10
Advisory Cancellation LIIR T and C	Mon 11-Jan-21 10:12
Advisory GRLF and Shore	Tue 2-Mar-21 17:28
Advisory LIIR	Tue 2-Mar-21 17:29
Advisory Cancellation LIIR	Tue 2-Mar-21 21:05
Advisory Cancellation GRLF and Shore	Tue 2-Mar-21 21:06

Message	Time
Advisory GRLF and Shore	Mon 8-Mar-21 6:45
Advisory LIIR	Mon 8-Mar-21 6:46
Advisory Cancellation LIIR	Mon 8-Mar-21 9:11
Advisory Cancellation GRLF and Shore	Mon 8-Mar-21 9:11
Advisory GRLF and Shore	Tue 6-Apr-21 7:32
Advisory LIIR	Tue 6-Apr-21 7:32
Advisory Cancellation GRLF and Shore	Tue 6-Apr-21 11:58
Advisory Cancellation LIIR	Tue 6-Apr-21 11:58
Advisory GRLF and Shore	Thu 15-Apr-21 7:04
Advisory LIIR	Thu 15-Apr-21 7:04
Advisory Cancellation GRLF and Shore	Thu 15-Apr-21 7:52
Advisory Cancellation LIIR	Thu 15-Apr-21 7:52
Advisory GRLF and Shore	Fri 18-Jun-21 13:48
Advisory LIIR	Fri 18-Jun-21 13:49
Alert GRLF and Shore	Fri 18-Jun-21 13:51
Advisory LIIR T and C	Fri 18-Jun-21 13:52
Alert Cancellation GRLF and Shore	Fri 18-Jun-21 16:30
Advisory Cancellation LIIR	Fri 18-Jun-21 16:31
Advisory Cancellation GRLF and Shore	Fri 18-Jun-21 16:32
Advisory Cancellation GRLF and Shore	Fri 18-Jun-21 16:38
Advisory Cancellation LIIR T and C	Sat 19-Jun-21 8:30
Advisory GRLF and Shore	Mon 28-Jun-21 9:05
Advisory LIIR	Mon 28-Jun-21 9:05
Alert GRLF and Shore	Mon 28-Jun-21 9:19
Alert LIIR	Mon 28-Jun-21 9:19
Advisory LIIR T and C	Mon 28-Jun-21 9:20
Interruption GRLF and Shore	Mon 28-Jun-21 17:08
Interruption LIIR Team Yellow 15 MW	Mon 28-Jun-21 17:16
RESTORE LIIR Team Yellow	Mon 28-Jun-21 18:45
RESTORE GRLF and Shore	Mon 28-Jun-21 18:46
Alert Cancellation LIIR	Mon 28-Jun-21 19:47
Alert Cancellation GRLF and Shore	Mon 28-Jun-21 19:48
Advisory Cancellation LIIR T and C	Mon 28-Jun-21 20:06
Advisory Cancellation LIIR	Mon 28-Jun-21 20:06
Advisory Cancellation GRLF and Shore	Mon 28-Jun-21 20:11
Advisory GRLF and Shore	Tue 13-Jul-21 9:06
Advisory LIIR	Tue 13-Jul-21 9:06
Advisory Cancellation LIIR	Tue 13-Jul-21 13:51

Message	Time
Advisory Cancellation GRLF and Shore	Tue 13-Jul-21 13:51
Advisory GRLF and Shore	Wed 25-Aug-21 10:13
Advisory LIIR	Wed 25-Aug-21 10:14
Advisory LIIR T and C	Wed 25-Aug-21 11:30
Alert GRLF and Shore	Wed 25-Aug-21 11:31
Alert LIIR	Wed 25-Aug-21 11:33
Interruption GRLF and Shore	Wed 25-Aug-21 17:38
Alert LIIR T and C	Wed 25-Aug-21 17:43
Interruption LIIR Team Blue 21 MW	Wed 25-Aug-21 17:50
RESTORE LIIR Team Blue	Wed 25-Aug-21 21:35
RESTORE GRLF and Shore	Wed 25-Aug-21 21:37
Alert Cancellation LIIR T and C	Wed 25-Aug-21 22:04
Alert Cancellation LIIR	Wed 25-Aug-21 22:06
Advisory Cancellation LIIR T and C	Wed 25-Aug-21 22:06
Advisory LIIR	Wed 25-Aug-21 22:08
Advisory GRLF and Shore	Wed 25-Aug-21 22:08
Advisory GRLF and Shore	Thu 26-Aug-21 12:16
Advisory LIIR	Thu 26-Aug-21 12:17
Advisory Cancellation LIIR	Thu 26-Aug-21 19:14
Advisory Cancellation GRLF and Shore	Thu 26-Aug-21 19:14
Advisory GRLF and Shore	Fri 27-Aug-21 9:57
Advisory LIIR	Fri 27-Aug-21 9:58
Advisory Cancellation GRLF and Shore	Fri 27-Aug-21 13:40
Advisory Cancellation LIIR	Fri 27-Aug-21 13:41
Advisory GRLF and Shore	Tue 31-Aug-21 12:31
Advisory LIIR	Tue 31-Aug-21 12:32
Alert GRLF and Shore	Tue 31-Aug-21 12:44
Alert LIIR	Tue 31-Aug-21 12:45
Advisory LIIR T and C	Tue 31-Aug-21 12:45
Advisory Cancellation LIIR T and C	Tue 31-Aug-21 18:35
Alert Cancellation LIIR	Tue 31-Aug-21 18:37
Alert Cancellation GRLF and Shore	Tue 31-Aug-21 18:37
Advisory Cancellation LIIR	Tue 31-Aug-21 19:32
Advisory Cancellation GRLF and Shore	Tue 31-Aug-21 19:34
Advisory GRLF and Shore	Tue 2-Nov-21 7:18
Advisory LIIR	Tue 2-Nov-21 7:18
Alert GRLF and Shore	Tue 2-Nov-21 7:31
Alert LIIR	Tue 2-Nov-21 7:32

Message	Time
Advisory LIIR T and C	Tue 2-Nov-21 7:32
Advisory Cancellation LIIR T and C	Tue 2-Nov-21 10:49
Alert Cancellation LIIR	Tue 2-Nov-21 10:50
Alert Cancellation GRLF and Shore	Tue 2-Nov-21 10:51
Advisory Cancellation LIIR	Tue 2-Nov-21 10:52
Advisory Cancellation GRLF and Shore	Tue 2-Nov-21 10:53
Advisory GRLF and Shore	Fri 5-Nov-21 7:20
Advisory LIIR	Fri 5-Nov-21 7:20
Advisory Cancellation GRLF and Shore	Fri 5-Nov-21 11:33
Advisory Cancellation LIIR	Fri 5-Nov-21 11:33
Advisory GRLF and Shore	Wed 17-Nov-21 16:57
Advisory LIIR	Wed 17-Nov-21 16:58
Alert GRLF and Shore	Wed 17-Nov-21 17:15
Alert LIIR	Wed 17-Nov-21 17:16
Advisory LIIR T and C	Wed 17-Nov-21 17:16
Advisory Cancellation LIIR T and C	Wed 17-Nov-21 22:40
Alert Cancellation LIIR	Wed 17-Nov-21 22:40
Alert Cancellation GRLF and Shore	Wed 17-Nov-21 22:41
Advisory Cancellation LIIR	Wed 17-Nov-21 22:41
Advisory Cancellation GRLF and Shore	Wed 17-Nov-21 22:42
Advisory GRLF and Shore	Thu 18-Nov-21 7:08
Advisory LIIR	Thu 18-Nov-21 7:08
Alert GRLF and Shore	Thu 18-Nov-21 8:03
Alert LIIR	Thu 18-Nov-21 8:04
Advisory LIIR T and C	Thu 18-Nov-21 8:04
Advisory Cancellation LIIR T and C	Thu 18-Nov-21 9:17
Alert Cancellation LIIR	Thu 18-Nov-21 9:18
Alert Cancellation GRLF and Shore	Thu 18-Nov-21 9:18
Advisory Cancellation LIIR	Thu 18-Nov-21 9:45
Advisory Cancellation GRLF and Shore	Thu 18-Nov-21 9:45
Advisory GRLF and Shore	Sat 27-Nov-21 16:36
Advisory LIIR	Sat 27-Nov-21 16:36
Advisory Cancellation LIIR	Sat 27-Nov-21 18:33
Advisory Cancellation GRLF and Shore	Sat 27-Nov-21 18:33
Advisory GRLF and Shore	Sat 4-Dec-21 16:41
Advisory LIIR	Sat 4-Dec-21 16:41
Alert GRLF and Shore	Sat 4-Dec-21 17:05
Alert LIIR	Sat 4-Dec-21 17:05

Message	Time
Advisory LIIR T and C	Sat 4-Dec-21 17:06
Advisory Cancellation LIIR T and C	Sat 4-Dec-21 21:59
Alert Cancellation GRLF and Shore	Sat 4-Dec-21 22:00
Alert Cancellation LIIR	Sat 4-Dec-21 22:00
Advisory Cancellation LIIR	Sat 4-Dec-21 22:01
Advisory Cancellation GRLF and Shore	Sat 4-Dec-21 22:02
Advisory GRLF and Shore	Wed 8-Dec-21 15:25
Advisory LIIR	Wed 8-Dec-21 15:26
Advisory Cancellation GRLF and Shore	Wed 8-Dec-21 18:41
Advisory Cancellation LIIR	Wed 8-Dec-21 18:42
Advisory GRLF and Shore	Fri 10-Dec-21 6:49
Advisory LIIR	Fri 10-Dec-21 6:50
Alert GRLF and Shore	Fri 10-Dec-21 7:06
Alert LIIR	Fri 10-Dec-21 7:06
Advisory LIIR T and C	Fri 10-Dec-21 7:06
Interruption GRLF and Shore	Fri 10-Dec-21 7:30
Interruption LIIR Team Red 18 MW	Fri 10-Dec-21 7:34
Interruption LIIR Team Yellow 15 MW	Fri 10-Dec-21 7:35
Interruption LIIR Team Blue 21 MW	Fri 10-Dec-21 7:35
Alert LIIR T and C	Fri 10-Dec-21 7:35
RESTORE LIIR Team Red	Fri 10-Dec-21 10:40
RESTORE LIIR Team Yellow	Fri 10-Dec-21 10:41
RESTORE LIIR Team Blue	Fri 10-Dec-21 10:41
RESTORE GRLF and Shore	Fri 10-Dec-21 10:41
Alert Cancellation LIIR T and C	Fri 10-Dec-21 17:32
Alert Cancellation LIIR	Fri 10-Dec-21 17:34
Alert Cancellation GRLF and Shore	Fri 10-Dec-21 17:35
Advisory Cancellation LIIR T and C	Fri 10-Dec-21 17:36
Advisory Cancellation LIIR	Fri 10-Dec-21 17:37
Advisory Cancellation GRLF and Shore	Fri 10-Dec-21 17:40
Advisory GRLF and Shore	Mon 13-Dec-21 17:22
Advisory LIIR	Mon 13-Dec-21 17:23
Advisory Cancellation GRLF and Shore	Mon 13-Dec-21 18:03
Advisory Cancellation LIIR	Mon 13-Dec-21 18:04
Advisory GRLF and Shore	Mon 3-Jan-22 16:57
Advisory LIIR	Mon 3-Jan-22 16:58
Advisory Cancellation LIIR	Mon 3-Jan-22 19:12
Advisory Cancellation GRLF and Shore	Mon 3-Jan-22 19:12

Message	Time
Advisory GRLF and Shore	Wed 12-Jan-22 6:52
Advisory LIIR	Wed 12-Jan-22 6:52
Advisory Cancellation LIIR	Wed 12-Jan-22 10:01
Advisory Cancellation GRLF and Shore	Wed 12-Jan-22 10:01
Advisory GRLF and Shore	Thu 13-Jan-22 17:41
Advisory LIIR	Thu 13-Jan-22 17:42
Advisory Cancellation LIIR	Thu 13-Jan-22 19:06
Advisory Cancellation GRLF and Shore	Thu 13-Jan-22 19:06
Advisory GRLF and Shore	Sun 16-Jan-22 17:08
Advisory LIIR	Sun 16-Jan-22 17:08
Alert GRLF and Shore	Sun 16-Jan-22 20:32
Alert LIIR	Sun 16-Jan-22 20:32
Advisory LIIR T and C	Sun 16-Jan-22 20:33
Interruption GRLF and Shore	Mon 17-Jan-22 6:26
Interruption LIIR Team Red 18 MW	Mon 17-Jan-22 6:28
Interruption LIIR Team Yellow 15 MW	Mon 17-Jan-22 6:29
Interruption LIIR Team Blue 21 MW	Mon 17-Jan-22 6:30
Alert LIIR T and C	Mon 17-Jan-22 6:32
RESTORE LIIR Team Red	Mon 17-Jan-22 8:05
RESTORE LIIR Team Yellow	Mon 17-Jan-22 8:05
RESTORE LIIR Team Blue	Mon 17-Jan-22 8:06
RESTORE GRLF and Shore	Mon 17-Jan-22 8:07
Alert Cancellation LIIR T and C	Mon 17-Jan-22 8:07
Alert Cancellation GRLF and Shore	Mon 17-Jan-22 10:19
Alert Cancellation LIIR	Mon 17-Jan-22 10:19
Advisory Cancellation LIIR T and C	Mon 17-Jan-22 10:21
Advisory Cancellation GRLF and Shore	Mon 17-Jan-22 10:36
Advisory Cancellation LIIR	Mon 17-Jan-22 10:37
Advisory GRLF and Shore	Fri 21-Jan-22 8:17
Advisory LIIR	Fri 21-Jan-22 8:18
Alert GRLF and Shore	Fri 21-Jan-22 8:47
Alert LIIR	Fri 21-Jan-22 8:47
Advisory LIIR T and C	Fri 21-Jan-22 8:48
Interruption GRLF and Shore	Fri 21-Jan-22 9:04
Interruption LIIR Team Red 18 MW	Fri 21-Jan-22 9:05
Interruption LIIR Team Yellow 15 MW	Fri 21-Jan-22 9:07
Interruption LIIR Team Blue 21 MW	Fri 21-Jan-22 9:08
Alert LIIR T and C	Fri 21-Jan-22 9:11
RESTORE LIIR Team Red	Fri 21-Jan-22 11:27
RESTORE LIIR Team Yellow	Fri 21-Jan-22 11:46

Message	Time
RESTORE LIIR Team Blue	Fri 21-Jan-22 12:37
Alert Cancellation LIIR T and C	Fri 21-Jan-22 16:10
RESTORE GRLF and Shore	Fri 21-Jan-22 16:12
Interruption GRLF and Shore	Sat 22-Jan-22 9:01
Interruption LIIR Team Red 18 MW	Sat 22-Jan-22 9:03
Interruption LIIR Team Yellow 15 MW	Sat 22-Jan-22 9:04
Interruption LIIR Team Blue 21 MW	Sat 22-Jan-22 9:04
Alert LIIR T and C	Sat 22-Jan-22 9:06
Alert Cancellation LIIR T and C	Sat 22-Jan-22 12:41
RESTORE LIIR Team Red	Sat 22-Jan-22 12:46
RESTORE LIIR Team Yellow	Sat 22-Jan-22 13:08
RESTORE LIIR Team Blue	Sat 22-Jan-22 13:08
RESTORE GRLF and Shore	Sat 22-Jan-22 16:11
Advisory Cancellation LIIR T and C	Sat 22-Jan-22 20:29
Alert Cancellation LIIR	Sat 22-Jan-22 20:29
Alert Cancellation GRLF and Shore	Sat 22-Jan-22 20:30
Advisory Cancellation LIIR	Sat 22-Jan-22 20:30
Advisory Cancellation GRLF and Shore	Sat 22-Jan-22 20:31
Advisory GRLF and Shore	Thu 27-Jan-22 6:41
Advisory LIIR	Thu 27-Jan-22 6:42
Advisory LIIR T and C	Thu 27-Jan-22 7:02
Alert GRLF and Shore	Thu 27-Jan-22 7:03
Alert LIIR	Thu 27-Jan-22 7:03
Alert LIIR T and C	Thu 27-Jan-22 7:18
Interruption GRLF and Shore	Thu 27-Jan-22 7:20
Interruption LIIR Team Red 18 MW	Thu 27-Jan-22 7:21
Interruption LIIR Team Yellow 15 MW	Thu 27-Jan-22 7:21
Interruption LIIR Team Blue 21 MW	Thu 27-Jan-22 7:22
RESTORE LIIR Team Red	Thu 27-Jan-22 12:59
RESTORE LIIR Team Yellow	Thu 27-Jan-22 13:01
RESTORE LIIR Team Blue	Thu 27-Jan-22 13:02
RESTORE GRLF and Shore	Thu 27-Jan-22 13:03
Alert Cancellation LIIR T and C	Thu 27-Jan-22 13:05
Advisory Cancellation LIIR T and C	Thu 27-Jan-22 13:45
Alert Cancellation GRLF and Shore	Thu 27-Jan-22 13:46
Alert Cancellation LIIR	Thu 27-Jan-22 13:47
Advisory Cancellation GRLF and Shore	Thu 27-Jan-22 13:48
Advisory Cancellation LIIR	Thu 27-Jan-22 13:49
Advisory GRLF and Shore	Tue 1-Mar-22 6:12
Advisory LIIR	Tue 1-Mar-22 6:13

Message	Time
Advisory LIIR T and C	Tue 1-Mar-22 6:32
Alert GRLF and Shore	Tue 1-Mar-22 6:33
Alert LIIR	Tue 1-Mar-22 6:34
Advisory Cancellation LIIR T and C	Tue 1-Mar-22 11:01
Alert Cancellation LIIR	Tue 1-Mar-22 11:02
Alert Cancellation GRLF and Shore	Tue 1-Mar-22 11:03
Advisory Cancellation LIIR	Tue 1-Mar-22 11:37
Advisory Cancellation GRLF and Shore	Tue 1-Mar-22 11:37
Advisory GRLF and Shore	Thu 3-Mar-22 7:58
Advisory LIIR	Thu 3-Mar-22 7:58
Advisory LIIR T and C	Thu 3-Mar-22 8:20
Alert GRLF and Shore	Thu 3-Mar-22 8:20
Alert LIIR	Thu 3-Mar-22 8:21
Advisory Cancellation LIIR T and C	Thu 3-Mar-22 10:45
Alert Cancellation LIIR	Thu 3-Mar-22 10:45
Alert Cancellation GRLF and Shore	Thu 3-Mar-22 10:46
Advisory Cancellation LIIR	Thu 3-Mar-22 11:31
Advisory Cancellation GRLF and Shore	Thu 3-Mar-22 11:31
Advisory GRLF and Shore	Wed 9-Mar-22 7:08
Advisory LIIR	Wed 9-Mar-22 7:09
Advisory LIIR T and C	Wed 9-Mar-22 7:19
Alert GRLF and Shore	Wed 9-Mar-22 7:20
Alert LIIR	Wed 9-Mar-22 7:20
Interruption GRLF and Shore	Wed 9-Mar-22 8:15
Interruption LIIR Team Red 18 MW	Wed 9-Mar-22 8:16
Interruption LIIR Team Yellow 15 MW	Wed 9-Mar-22 8:17
Interruption LIIR Team Blue 21 MW	Wed 9-Mar-22 8:17
Alert LIIR T and C	Wed 9-Mar-22 8:18
RESTORE LIIR Team Red	Wed 9-Mar-22 9:42
RESTORE LIIR Team Yellow	Wed 9-Mar-22 9:44
RESTORE LIIR Team Blue	Wed 9-Mar-22 9:46
Advisory Cancellation LIIR T and C	Wed 9-Mar-22 10:21
Alert Cancellation LIIR	Wed 9-Mar-22 10:22
Alert Cancellation GRLF and Shore	Wed 9-Mar-22 10:23
Advisory Cancellation LIIR	Wed 9-Mar-22 10:24
Advisory Cancellation GRLF and Shore	Wed 9-Mar-22 10:25
Advisory GRLF and Shore	Mon 14-Mar-22 7:49
Advisory LIIR	Mon 14-Mar-22 7:49
Alert GRLF and Shore	Mon 14-Mar-22 8:03
Advisory LIIR T and C	Mon 14-Mar-22 8:03

Message	Time
Alert LIIR	Mon 14-Mar-22 8:03
Alert Cancellation LIIR	Mon 14-Mar-22 12:06
Advisory Cancellation GRLF and Shore	Mon 14-Mar-22 12:07
Advisory Cancellation LIIR T and C	Mon 14-Mar-22 12:07
Advisory Cancellation LIIR	Mon 14-Mar-22 12:07
Advisory Cancellation GRLF and Shore	Mon 14-Mar-22 12:07
Advisory GRLF and Shore	Sun 10-Apr-22 11:31
Advisory LIIR	Sun 10-Apr-22 11:31
Advisory LIIR T and C	Sun 10-Apr-22 11:45
Alert GRLF and Shore	Sun 10-Apr-22 11:45
Alert LIIR	Sun 10-Apr-22 11:46
Advisory Cancellation LIIR T and C	Sun 10-Apr-22 16:12
Alert Cancellation LIIR	Sun 10-Apr-22 16:13
Alert Cancellation GRLF and Shore	Sun 10-Apr-22 16:13
Advisory Cancellation GRLF and Shore	Sun 10-Apr-22 16:55
Advisory Cancellation LIIR	Sun 10-Apr-22 16:55
Advisory GRLF and Shore	Thu 28-Jul-22 13:10
Advisory LIIR	Thu 28-Jul-22 13:11
Alert GRLF and Shore	Thu 28-Jul-22 16:33
Alert LIIR	Thu 28-Jul-22 16:33
Advisory LIIR T and C	Thu 28-Jul-22 16:34
Advisory Cancellation LIIR T and C	Thu 28-Jul-22 19:11
Alert Cancellation LIIR	Thu 28-Jul-22 19:12
Alert Cancellation GRLF and Shore	Thu 28-Jul-22 19:13
Advisory Cancellation LIIR	Thu 28-Jul-22 19:14
Advisory Cancellation GRLF and Shore	Thu 28-Jul-22 19:14
Advisory GRLF and Shore	Sat 6-Aug-22 10:01
Advisory LIIR	Sat 6-Aug-22 10:01
Alert GRLF and Shore	Sat 6-Aug-22 10:23
Alert LIIR	Sat 6-Aug-22 10:23
Advisory LIIR T and C	Sat 6-Aug-22 10:24
Alert Cancellation LIIR	Sat 6-Aug-22 18:25
Alert Cancellation GRLF and Shore	Sat 6-Aug-22 18:25
Advisory Cancellation LIIR	Sat 6-Aug-22 18:25
Advisory Cancellation GRLF and Shore	Sat 6-Aug-22 18:25
Advisory Cancellation LIIR T and C	Sat 6-Aug-22 20:13
Advisory GRLF and Shore	Tue 9-Aug-22 13:28
Advisory LIIR	Tue 9-Aug-22 13:29
Advisory Cancellation GRLF and Shore	Tue 9-Aug-22 14:32

Message	Time
Advisory Cancellation LIIR	Tue 9-Aug-22 14:33
Advisory GRLF and Shore	Tue 23-Aug-22 16:16
Advisory LIIR	Tue 23-Aug-22 16:16
Advisory Cancellation GRLF and Shore	Tue 23-Aug-22 18:11
Advisory Cancellation LIIR	Tue 23-Aug-22 18:13
Advisory GRLF and Shore	Fri 26-Aug-22 10:35
Advisory LIIR	Fri 26-Aug-22 10:35
Advisory Cancellation GRLF and Shore	Fri 26-Aug-22 18:15
Advisory Cancellation LIIR	Fri 26-Aug-22 18:15
Advisory GRLF and Shore	Sun 11-Sep-22 15:53
Advisory LIIR	Sun 11-Sep-22 15:54
Advisory LIIR T and C	Sun 11-Sep-22 16:43
Alert GRLF and Shore	Sun 11-Sep-22 16:43
Alert LIIR	Sun 11-Sep-22 16:44
Alert Cancellation LIIR	Sun 11-Sep-22 20:44
Alert Cancellation GRLF and Shore	Sun 11-Sep-22 20:45
Advisory Cancellation LIIR T and C	Sun 11-Sep-22 20:46
Advisory Cancellation LIIR	Sun 11-Sep-22 20:47
Advisory Cancellation GRLF and Shore	Sun 11-Sep-22 20:48
Advisory GRLF and Shore	Mon 3-Oct-22 7:34
Advisory LIIR	Mon 3-Oct-22 7:35
Advisory Cancellation GRLF and Shore	Mon 3-Oct-22 15:37
Advisory Cancellation LIIR	Mon 3-Oct-22 15:37
Advisory GRLF and Shore	Tue 4-Oct-22 6:28
Advisory LIIR	Tue 4-Oct-22 6:28
Alert LIIR	Tue 4-Oct-22 7:02
Advisory LIIR T and C	Tue 4-Oct-22 7:02
Alert GRLF and Shore	Tue 4-Oct-22 7:04
Interruption GRLF and Shore	Tue 4-Oct-22 7:11
RESTORE GRLF and Shore	Tue 4-Oct-22 11:30
Advisory Cancellation GRLF and Shore	Tue 4-Oct-22 21:22
Advisory Cancellation LIIR	Tue 4-Oct-22 21:22
Advisory Cancellation LIIR T and C	Tue 4-Oct-22 21:22
Alert Cancellation GRLF and Shore	Tue 4-Oct-22 21:22
Alert Cancellation LIIR	Tue 4-Oct-22 21:23
Advisory GRLF and Shore	Wed 5-Oct-22 7:07
Advisory LIIR	Wed 5-Oct-22 7:08

Message	Time
Alert GRLF and Shore	Wed 5-Oct-22 9:34
Alert LIIR	Wed 5-Oct-22 9:35
Advisory LIIR T and C	Wed 5-Oct-22 9:35
Advisory Cancellation LIIR T and C	Wed 5-Oct-22 21:15
Alert Cancellation LIIR	Wed 5-Oct-22 21:15
Alert Cancellation GRLF and Shore	Wed 5-Oct-22 21:15
Advisory Cancellation GRLF and Shore	Wed 5-Oct-22 21:26
Advisory Cancellation LIIR	Wed 5-Oct-22 21:26
Advisory GRLF and Shore	Thu 6-Oct-22 7:14
Advisory LIIR	Thu 6-Oct-22 7:14
Alert GRLF and Shore	Thu 6-Oct-22 9:01
Alert LIIR	Thu 6-Oct-22 9:01
Advisory LIIR T and C	Thu 6-Oct-22 9:02
Advisory LIIR	Fri 7-Oct-22 7:09
Alert GRLF and Shore	Fri 7-Oct-22 9:13
Alert LIIR	Fri 7-Oct-22 9:13
Advisory LIIR T and C	Fri 7-Oct-22 9:15
Alert Cancellation LIIR	Fri 7-Oct-22 18:05
Alert Cancellation GRLF and Shore	Fri 7-Oct-22 18:06
Advisory Cancellation LIIR T and C	Fri 7-Oct-22 18:07
Advisory Cancellation LIIR	Fri 7-Oct-22 18:08
Advisory Cancellation GRLF and Shore	Fri 7-Oct-22 18:09
Advisory GRLF and Shore	Sat 29-Oct-22 8:51
Advisory LIIR	Sat 29-Oct-22 8:51
Advisory Cancellation GRLF and Shore	Sat 29-Oct-22 11:23
Advisory Cancellation LIIR	Sat 29-Oct-22 11:23
Advisory GRLF and Shore	Wed 9-Nov-22 17:02
Advisory LIIR	Wed 9-Nov-22 17:02
Alert GRLF and Shore	Wed 9-Nov-22 17:11
Alert LIIR	Wed 9-Nov-22 17:11
Advisory Cancellation GRLF and Shore	Wed 9-Nov-22 20:59
Advisory Cancellation LIIR	Wed 9-Nov-22 20:59
Alert Cancellation GRLF and Shore	Wed 9-Nov-22 20:59
Alert Cancellation LIIR	Wed 9-Nov-22 20:59
Advisory GRLF and Shore	Tue 15-Nov-22 10:10
Advisory LIIR	Tue 15-Nov-22 10:10
Advisory LIIR T and C	Tue 15-Nov-22 16:08
Alert GRLF and Shore	Tue 15-Nov-22 16:08

Message	Time
Alert LIIR	Tue 15-Nov-22 16:08
Interruption GRLF and Shore	Tue 15-Nov-22 17:18
Interruption LIIR Team Red 18 MW	Tue 15-Nov-22 17:19
Interruption LIIR Team Yellow 15 MW	Tue 15-Nov-22 17:20
Interruption LIIR Team Blue 21 MW	Tue 15-Nov-22 17:21
Alert LIIR T and C	Tue 15-Nov-22 17:22
RESTORE LIIR Team Red	Tue 15-Nov-22 19:11
RESTORE LIIR Team Yellow	Tue 15-Nov-22 19:12
RESTORE LIIR Team Blue	Tue 15-Nov-22 19:13
RESTORE GRLF and Shore	Tue 15-Nov-22 19:14
Alert Cancellation LIIR T and C	Tue 15-Nov-22 19:15
Alert Cancellation GRLF and Shore	Tue 15-Nov-22 19:37
Alert Cancellation LIIR	Tue 15-Nov-22 19:37
Advisory Cancellation LIIR T and C	Tue 15-Nov-22 19:38
Advisory Cancellation LIIR	Tue 15-Nov-22 19:39
Advisory Cancellation GRLF and Shore	Tue 15-Nov-22 19:39
Advisory GRLF and Shore	Fri 18-Nov-22 18:03
Advisory LIIR	Fri 18-Nov-22 18:03
Advisory Cancellation GRLF and Shore	Fri 18-Nov-22 21:11
Advisory Cancellation LIIR	Fri 18-Nov-22 21:11
Advisory GRLF and Shore	Sat 19-Nov-22 16:12
Advisory LIIR	Sat 19-Nov-22 16:13
Alert GRLF and Shore	Sat 19-Nov-22 17:05
Alert LIIR	Sat 19-Nov-22 17:05
Advisory LIIR T and C	Sat 19-Nov-22 17:12
Alert LIIR T and C	Sat 19-Nov-22 17:15
Alert Cancellation LIIR T and C	Sat 19-Nov-22 20:54
Advisory Cancellation LIIR T and C	Sat 19-Nov-22 20:54
Alert Cancellation GRLF and Shore	Sat 19-Nov-22 20:54
Alert Cancellation LIIR	Sat 19-Nov-22 20:55
Advisory Cancellation GRLF and Shore	Sat 19-Nov-22 20:55
Advisory Cancellation LIIR	Sat 19-Nov-22 20:55
Advisory GRLF and Shore	Mon 21-Nov-22 16:51
Advisory LIIR	Mon 21-Nov-22 16:52
Alert GRLF and Shore	Mon 21-Nov-22 16:57
Alert LIIR	Mon 21-Nov-22 16:58
Advisory LIIR T and C	Mon 21-Nov-22 16:58
Advisory Cancellation LIIR T and C	Mon 21-Nov-22 19:11
Alert Cancellation GRLF and Shore	Mon 21-Nov-22 19:12
Alert Cancellation LIIR	Mon 21-Nov-22 19:12

Message	Time
Advisory Cancellation GRLF and Shore	Mon 21-Nov-22 19:13
Advisory Cancellation LIIR	Mon 21-Nov-22 19:14
Advisory Cancellation LIIR	Mon 21-Nov-22 19:14
Advisory GRLF and Shore	Tue 22-Nov-22 17:28
Advisory LIIR	Tue 22-Nov-22 17:28
Advisory Cancellation GRLF and Shore	Tue 22-Nov-22 19:27
Advisory Cancellation LIIR	Tue 22-Nov-22 19:27
Advisory GRLF and Shore	Thu 24-Nov-22 9:35
Advisory LIIR	Thu 24-Nov-22 9:35
Alert GRLF and Shore	Thu 24-Nov-22 9:35
Alert LIIR	Thu 24-Nov-22 9:35
Advisory LIIR T and C	Thu 24-Nov-22 9:36
Interruption GRLF and Shore	Thu 24-Nov-22 9:39
Interruption LIIR Team Red 18 MW	Thu 24-Nov-22 9:40
Interruption LIIR Team Yellow 15 MW	Thu 24-Nov-22 9:40
Interruption LIIR Team Blue 21 MW	Thu 24-Nov-22 9:40
RESTORE LIIR Team Red	Thu 24-Nov-22 9:57
RESTORE LIIR Team Yellow	Thu 24-Nov-22 10:00
RESTORE LIIR Team Blue	Thu 24-Nov-22 10:53
RESTORE GRLF and Shore	Thu 24-Nov-22 10:53
Advisory Cancellation GRLF and Shore	Thu 24-Nov-22 17:47
Advisory GRLF and Shore	Fri 25-Nov-22 6:08
Advisory LIIR	Fri 25-Nov-22 6:09
Advisory LIIR T and C	Fri 25-Nov-22 6:48
Alert GRLF and Shore	Fri 25-Nov-22 6:48
Alert LIIR	Fri 25-Nov-22 6:48
Alert Cancellation GRLF and Shore	Fri 25-Nov-22 9:14
Alert Cancellation LIIR	Fri 25-Nov-22 9:14
Advisory Cancellation LIIR T and C	Fri 25-Nov-22 9:15
Advisory Cancellation LIIR	Fri 25-Nov-22 9:16
Advisory Cancellation GRLF and Shore	Fri 25-Nov-22 9:16
Advisory GRLF and Shore	Wed 30-Nov-22 7:00
Advisory LIIR	Wed 30-Nov-22 7:00
Alert GRLF and Shore	Wed 30-Nov-22 7:33
Alert LIIR	Wed 30-Nov-22 7:34
Advisory LIIR T and C	Wed 30-Nov-22 7:33
Advisory Cancellation LIIR T and C	Wed 30-Nov-22 9:30
Alert Cancellation GRLF and Shore	Wed 30-Nov-22 9:30
Alert Cancellation LIIR	Wed 30-Nov-22 9:30

Message	Time
Advisory Cancellation GRLF and Shore	Wed 30-Nov-22 9:32
Advisory Cancellation LIIR	Wed 30-Nov-22 9:32
Advisory GRLF and Shore	Thu 1-Dec-22 18:45
Advisory LIIR	Thu 1-Dec-22 18:45
Alert GRLF and Shore	Thu 1-Dec-22 18:45
Alert LIIR	Thu 1-Dec-22 18:45
Advisory LIIR	Fri 2-Dec-22 17:00
LIIR Interruptions	Fri 2-Dec-22 18:00
LIIR T&C Interruptions	Fri 2-Dec-22 18:00
LIIR T&C Restored	Fri 2-Dec-22 18:55
LIIR Restored	Fri 2-Dec-22 23:05
Advisory GRLF and Shore	Mon 5-Dec-22 7:00
Advisory LIIR	Mon 5-Dec-22 7:00
Alert GRLF and Shore	Mon 5-Dec-22 7:00
Alert LIIR	Mon 5-Dec-22 7:00
Alert LIIR	Sun 11-Dec-22 15:46
Advisory LIIR T and C	Sun 11-Dec-22 15:46
LIIR Interruptions	Sun 11-Dec-22 16:52
LIIR Interruption Cancellation	Sun 11-Dec-22 18:24
Advisory LIIR Cancellation	Sun 11-Dec-22 23:30
Advisory LIIR	Mon 12-Dec-22 7:29
Alert LIIR	Mon 12-Dec-22 7:43
Advisory LIIR T and C	Mon 12-Dec-22 7:43
Advisory LIIR	Wed 21-Dec-22 16:56
Alert LIIR	Wed 21-Dec-22 17:03
Advisory LIIR T&C	Wed 21-Dec-22 17:05
Advisory LIIR T&C Cancellation	Wed 21-Dec-22 21:29
Alert LIIR Cancellation	Wed 21-Dec-22 21:32
Advisory LIIR Cancellation	Wed 21-Dec-22 21:35
Advisory LIIR	Thu 22-Dec-22 8:51
Advisory LIIR Cancellation	Thu 22-Dec-22 10:33
Advisory LIIR	Thu 22-Dec-22 16:20
Alert LIIR	Thu 22-Dec-22 16:50
Advisory LIIR T&C	Thu 22-Dec-22 16:53
Advisory LIIR T&C Cancellation	Thu 22-Dec-22 20:06

Message	Time
Alert LIIR Cancellation	Thu 22-Dec-22 20:09
Alvisory LIIR Cancellation	Thu 22-Dec-22 20:12
Advisory LIIR	Thu 5-Jan-23 16:18
Alert LIIR	Thu 5-Jan-23 17:05
Alert LIIR Cancellation	Thu 5-Jan-23 19:37
Advisory LIIR Cancellation	Thu 5-Jan-23 20:23
Advisory LIIR	Fri 6-Jan-23 17:17
Advisory LIIR Cancellation	Fri 6-Jan-23 18:33
Advisory LIIR	Sun 8-Jan-23 16:51
Alert LIIR	Sun 8-Jan-23 17:06
Alert LIIR Cancellation	Sun 8-Jan-23 19:00
Advisory LIIR Cancellation	Sun 8-Jan-23 19:02
Advisory LIIR	Mon 9-Jan-23 17:05
Advisory LIIR Cancellation	Mon 9-Jan-23 18:10
Advisory LIIR	Wed 11-Jan-23 7:01
Alert LIIR	Wed 11-Jan-23 7:19
Advisory LIIR T&C	Wed 11-Jan-23 7:22
Advisory LIIR T&C Cancellation	Wed 11-Jan-23 12:03
Alert LIIR Cancellation	Wed 11-Jan-23 12:05
Advisory LIIR Cancellation	Wed 11-Jan-23 12:06
Advisory LIIR	Thu 12-Jan-23 7:07
Alert LIIR	Thu 12-Jan-23 7:46
Advisory LIIR T&C	Thu 12-Jan-23 7:46
LIIR Interruptions	Thu 12-Jan-23 8:11
LIIR Interruption Cancellation	Thu 12-Jan-23 10:06
Advisory LIIR T&C Cancellation	Thu 12-Jan-23 19:20
Alert LIIR Cancellation	Thu 12-Jan-23 19:22
Advisory LIIR Cancellation	Thu 12-Jan-23 19:23
Advisory LIIR	Mon 16-Jan-23 16:51
Alert LIIR	Mon 16-Jan-23 17:22
Advisory LIIR T&C	Mon 16-Jan-23 17:23
Advisory LIIR T&C Cancellation	Mon 16-Jan-23 20:37
Alert LIIR Cancellation	Mon 16-Jan-23 20:37
Advisory LIIR Cancellation	Mon 16-Jan-23 21:46
Advisory LIIR	Wed 25-Jan-23 17:10

Message	Time
Advisory LIIR Cancellation	Wed 25-Jan-23 19:27
Advisory LIIR	Wed 1-Feb-23 7:04
Alert LIIR	Wed 1-Feb-23 7:12
Advisory LIIR T&C	Wed 1-Feb-23 7:29
LIIR Interruptions	Wed 1-Feb-23 7:41
LIIR Interruption Cancellation	Wed 1-Feb-23 9:21
Alert LIIR T&C Cancellation	Wed 1-Feb-23 10:11
Advisory LIIR T&C Cancellation	Wed 1-Feb-23 10:13
Alert LIIR Cancellation	Wed 1-Feb-23 10:14
Advisory LIIR Cancellation	Wed 1-Feb-23 10:15
Advisory LIIR	Thu 2-Feb-23 6:03
Alert LIIR	Thu 2-Feb-23 6:13
Advisory LIIR T&C	Thu 2-Feb-23 6:14
LIIR Interruptions	Thu 2-Feb-23 6:24
LIIR Interruption Cancellation	Thu 2-Feb-23 10:16
Advisory LIIR T&C Cancellation	Thu 2-Feb-23 10:17
Alert LIIR Cancellation	Thu 2-Feb-23 10:38
Advisory LIIR Cancellation	Thu 2-Feb-23 10:38
Advisory LIIR	Sat 4-Feb-23 7:43
Alert LIIR	Sat 4-Feb-23 8:16
Advisory LIIR T&C	Sat 4-Feb-23 11:04
LIIR Interruptions	Sat 4-Feb-23 11:13
Alert LIIR T&C	Sat 4-Feb-23 11:26
LIIR Interruption Cancellation	Sat 4-Feb-23 19:19
Advisory LIIR T&C Cancellation	Sat 4-Feb-23 20:28
Alert LIIR Cancellation	Sat 4-Feb-23 20:29
Advisory LIIR T&C Cancellation	Sat 4-Feb-23 20:30
Advisory LIIR Cancellation	Sat 4-Feb-23 21:50
Advisory LIIR	Thu 9-Feb-23 18:34
Advisory LIIR Cancellation	Thu 9-Feb-23 21:09
Advisory LIIR	#VALUE!
Alert LIIR	#VALUE!
Advisory LIIR T&C	#VALUE!
Advisory LIIR T&C Cancellation	#VALUE!
Alert LIIR Cancellation	#VALUE!
Advisory LIIR Cancellation	#VALUE!
Advisory GRLF and Shore	Thu 1-Jun-23 17:00

Message	Time
Advisory LIIR	Thu 1-Jun-23 17:00
Advisory LIIR T and C	Thu 1-Jun-23 17:01
Alert GRLF and Shore	Thu 1-Jun-23 17:01
Alert LIIR	Thu 1-Jun-23 17:01
Alert LIIR T and C	Thu 1-Jun-23 17:02
Interruption GRLF and Shore	Thu 1-Jun-23 17:02
Interruption LIIR Team Red 18 MW	Thu 1-Jun-23 17:03
Interruption LIIR Team Yellow 15 MW	Thu 1-Jun-23 17:03
Interruption LIIR Team Blue 21 MW	Thu 1-Jun-23 17:03
RESTORE LIIR Team Red	Thu 1-Jun-23 18:06
RESTORE LIIR Team Yellow	Thu 1-Jun-23 18:06
RESTORE LIIR Team Blue	Thu 1-Jun-23 18:07
RESTORE GRLF and Shore	Thu 1-Jun-23 18:09
Alert Cancellation GRLF and Shore	Thu 1-Jun-23 20:46
Alert Cancellation LIIR	Thu 1-Jun-23 20:47
Alert Cancellation LIIR T and C	Thu 1-Jun-23 20:47
Advisory Cancellation GRLF and Shore	Thu 1-Jun-23 20:53
Advisory Cancellation LIIR	Thu 1-Jun-23 20:53
Advisory Cancellation LIIR T and C	Thu 1-Jun-23 20:53
Advisory GRLF and Shore	Sun 18-Jun-23 15:49
Advisory LIIR	Sun 18-Jun-23 15:49
Advisory LIIR T and C	Sun 18-Jun-23 15:54
Alert GRLF and Shore	Sun 18-Jun-23 15:54
Alert LIIR	Sun 18-Jun-23 15:55
Interruption GRLF and Shore	Sun 18-Jun-23 17:15
Alert LIIR T and C	Sun 18-Jun-23 17:17
Interruption LIIR Team Yellow 15 MW	Sun 18-Jun-23 17:17
Interruption LIIR Team Red 18 MW	Sun 18-Jun-23 17:19
Interruption LIIR Team Blue 21 MW	Sun 18-Jun-23 17:19
RESTORE LIIR Team Yellow	Sun 18-Jun-23 20:36
RESTORE LIIR Team Red	Sun 18-Jun-23 20:37
RESTORE LIIR Team Blue	Sun 18-Jun-23 20:37
RESTORE GRLF and Shore	Sun 18-Jun-23 20:38
Alert Cancellation LIIR T and C	Sun 18-Jun-23 20:40
Alert Cancellation LIIR	Sun 18-Jun-23 20:40
Alert Cancellation GRLF and Shore	Sun 18-Jun-23 20:41
Advisory Cancellation LIIR T and C	Sun 18-Jun-23 20:42
Advisory Cancellation LIIR	Sun 18-Jun-23 20:42
Advisory Cancellation GRLF and Shore	Sun 18-Jun-23 20:42
Advisory GRLF and Shore	Thu 22-Jun-23 9:38
Advisory LIIR	Thu 22-Jun-23 9:39

Message	Time
Advisory LIIR T and C	Thu 22-Jun-23 9:39
Alert GRLF and Shore	Thu 22-Jun-23 10:07
Alert LIIR	Thu 22-Jun-23 10:08
Advisory Cancellation LIIR T and C	Thu 22-Jun-23 14:18
Alert Cancellation LIIR	Thu 22-Jun-23 14:20
Alert Cancellation GRLF and Shore	Thu 22-Jun-23 14:21
Advisory Cancellation LIIR	Thu 22-Jun-23 14:23
Advisory Cancellation GRLF and Shore	Thu 22-Jun-23 14:24
Advisory GRLF and Shore	Tue 4-Jul-23 11:53
Advisory LIIR	Tue 4-Jul-23 11:54
Advisory Cancellation LIIR	Tue 4-Jul-23 18:43
Advisory Cancellation GRLF and Shore	Tue 4-Jul-23 18:43
Advisory GRLF and Shore	Wed 5-Jul-23 12:24
Advisory LIIR	Wed 5-Jul-23 12:24
Alert GRLF and Shore	Wed 5-Jul-23 12:38
Alert LIIR	Wed 5-Jul-23 12:38
Advisory LIIR T and C	Wed 5-Jul-23 12:40
Advisory Cancellation LIIR T and C	Wed 5-Jul-23 14:23
Alert Cancellation GRLF and Shore	Wed 5-Jul-23 14:24
Alert Cancellation LIIR	Wed 5-Jul-23 14:24
Advisory Cancellation LIIR	Wed 5-Jul-23 18:04
Advisory Cancellation GRLF and Shore	Wed 5-Jul-23 18:05
Advisory GRLF and Shore	Mon 10-Jul-23 8:42
Advisory LIIR	Mon 10-Jul-23 8:43
Advisory Cancellation GRLF and Shore	Mon 10-Jul-23 14:28
Advisory Cancellation LIIR	Mon 10-Jul-23 14:28
Advisory GRLF and Shore	Thu 24-Aug-23 11:20
Advisory LIIR	Thu 24-Aug-23 11:21
Advisory Cancellation GRLF and Shore	Thu 24-Aug-23 12:59
Advisory Cancellation LIIR	Thu 24-Aug-23 13:00
Advisory GRLF and Shore	Wed 6-Dec-23 7:41
Advisory LIIR	Wed 6-Dec-23 7:41
Advisory LIIR	Wed 6-Dec-23 7:48
Advisory GRLF and Shore	Wed 6-Dec-23 7:54
Advisory LIIR T and C	Wed 6-Dec-23 8:03
Alert GRLF and Shore	Wed 6-Dec-23 8:05
Alert LIIR	Wed 6-Dec-23 8:20
Alert Cancellation LIIR	Wed 6-Dec-23 10:14

Message	Time
Alert Cancellation GRLF and Shore	Wed 6-Dec-23 10:14
Advisory Cancellation LIIR T and C	Wed 6-Dec-23 10:15
Advisory Cancellation LIIR	Wed 6-Dec-23 10:17
Advisory Cancellation GRLF and Shore	Wed 6-Dec-23 10:17
Advisory GRLF and Shore	Sat 16-Dec-23 21:03
Advisory LIIR	Sat 16-Dec-23 21:03
Alert GRLF and Shore	Sat 16-Dec-23 21:31
Alert LIIR	Sat 16-Dec-23 21:31
Advisory Cancellation GRLF and Shore	Sun 17-Dec-23 0:58
Advisory Cancellation LIIR	Sun 17-Dec-23 0:58
Alert Cancellation GRLF and Shore	Sun 17-Dec-23 0:59
Alert Cancellation LIIR	Sun 17-Dec-23 0:59
Advisory GRLF and Shore	Wed 20-Dec-23 11:35
Advisory LIIR	Wed 20-Dec-23 11:35
Alert Cancellation GRLF and Shore	Wed 20-Dec-23 13:25
Alert Cancellation LIIR	Wed 20-Dec-23 13:25
Advisory Cancellation GRLF and Shore	Wed 20-Dec-23 13:25
Advisory Cancellation LIIR	Wed 20-Dec-23 13:26

Large industrial load interruption events

Event	Start Time	End Time
LIIR Interruption	18-Jun-23 17:17	18-Jun-23 20:37
LIIR Interruption	1-Jun-23 17:03	1-Jun-23 18:07
LIIR Interruption	4-Feb-23 11:13	4-Feb-23 19:19
LIIR Interruption	2-Feb-23 6:24	2-Feb-23 10:16
LIIR Interruption	1-Feb-23 7:41	1-Feb-23 9:21
LIIR Interruption	12-Jan-23 8:11	12-Jan-23 10:06
LIIR Interruption	11-Dec-22 16:52	11-Dec-22 18:24
LIIR Interruption	2-Dec-22 18:00	2-Dec-22 23:05
LIIR Interruption	24-Nov-22 9:40	24-Nov-22 10:53
LIIR Interruption	15-Nov-22 17:19	15-Nov-22 19:13
LIIR Interruption	4-Oct-22 7:11	4-Oct-22 11:30
LIIR Interruption	9-Mar-22 8:16	9-Mar-22 9:46
LIIR Interruption	27-Jan-22 7:21	27-Jan-22 13:02
LIIR Interruption	22-Jan-22 9:03	22-Jan-22 13:08
LIIR Interruption	21-Jan-22 9:05	21-Jan-22 12:37
LIIR Interruption	17-Jan-22 6:28	17-Jan-22 8:06
LIIR Interruption	10-Dec-21 7:34	10-Dec-21 10:41
LIIR Interruption	25-Aug-21 17:50	25-Aug-21 21:35
LIIR Interruption	28-Jun-21 17:16	28-Jun-21 18:45
LIIR Interruption	9-Jan-21 17:21	9-Jan-21 18:20

Critical Peak Pricing Events 2021 - 2023

Event Status	Event Date	Event Time
COMPLETE	24-Feb-23	7:00 AM - 11:00 AM Atlantic
COMPLETE	1-Feb-23	5:00 PM - 9:00 PM Atlantic
COMPLETE	11-Jan-23	5:00 PM - 9:00 PM Atlantic
COMPLETE	11-Jan-23	7:00 AM - 11:00 AM Atlantic
COMPLETE	10-Jan-23	5:00 PM - 9:00 PM Atlantic
COMPLETE	19-Dec-22	5:00 PM - 9:00 PM Atlantic
COMPLETE	19-Dec-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	12-Dec-22	5:00 PM - 9:00 PM Atlantic
COMPLETE	12-Dec-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	16-Nov-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	15-Nov-22	5:00 PM - 9:00 PM Atlantic
COMPLETE	15-Nov-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	16-Mar-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	3-Mar-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	15-Feb-22	5:00 PM - 9:00 PM Atlantic
COMPLETE	2-Feb-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	19-Jan-22	5:00 PM - 9:00 PM Atlantic
COMPLETE	19-Jan-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	17-Jan-22	7:00 AM - 11:00 AM Atlantic
COMPLETE	12-Jan-22	7:00 AM - 11:00 AM Atlantic

Under-frequency Load Shedding occurred twice with loss of transmission due to line icing from freezing rain.

Start	Restored	Event
29-Nov-18 8:58	29-Nov-18 16:52	Icing event. Tripping of the transmission lines in the Cape Breton Export Corridor, followed by loss of the connection to NB (Eastern Interconnection).
16-Jan-23 5:31	16-Jan-23 8:48	The NS-NB Tie line tripped due to icing on L-8001 separating NS from NB (Eastern interconnection)

Largest storm events with multi-day customer outages

Start of Event	Event
5-Jul-14	Hurricane Arthur
29-Jan-16	Jan 2016 Snow (Jan 29 to Feb 1)
10-Oct-16	Thanksgiving Storm 2016 (Oct 10 to 12)
25-Dec-17	Christmas 2017 Storm (Dec 25 to 26)
4-Jan-18	New Years 2018 Storm (Jan 4 to 5)
7-Sep-19	Sep 2019 Hurricane Dorian (Sept 7 to 12)
23-Sep-22	Sep 2022 Hurricane Fiona (Sep 23 to 30)
16-Sep-23	Sep 2023 Hurricane Lee (Sep 16 to 17)

Request DR-9:

If Nova Scotia Power has adopted any form of an adjusted net load metric (e.g., load minus intermittent resources), please provide the following information:

(a) The adjusted net load, by hour, for the past five years.

(b) The formula for the adjusted net load.

(c) The operational and planning activities in which the adjusted net load is used by Nova Scotia Power.

(d) The basis on which the adjusted net load metric was developed, such as regression analysis or other statistical considerations.

Response DR-9:

(a) Please refer to Attachment 1 for the adjusted net load, by hour, for the past five years.

(b) The formula for the adjusted net load is:

Adjusted Net Load (ANL) = Net System Requirement (NSR) - Transmission and Distribution Wind Generation

(c) Adjusted net load is not specifically used in operations or planning activities outside of ad hoc analysis or requests. Operations monitors wind generation forecasts and takes them into consideration when assessing short term (1 to 6 days) resource adequacy and when preparing for weather events. In this manner, wind generation is assessed in relation to the forecast system load profile but a specific adjusted net load calculation is not done.

(d) Please refer to part (b).

Start Time	End Time	ANL_MW
1/1/2019 0:00	1/1/2019 1:00	1380.8
1/1/2019 1:00	1/1/2019 2:00	1304.7
1/1/2019 2:00	1/1/2019 3:00	1202.4
1/1/2019 3:00	1/1/2019 4:00	1098.5
1/1/2019 4:00	1/1/2019 5:00	1051.7
1/1/2019 5:00	1/1/2019 6:00	1012.2
1/1/2019 6:00	1/1/2019 7:00	1035.4
1/1/2019 7:00	1/1/2019 8:00	1067.5
1/1/2019 8:00	1/1/2019 9:00	1109.6
1/1/2019 9:00	1/1/2019 10:00	1192.5
1/1/2019 10:00	1/1/2019 11:00	1250.7
1/1/2019 11:00	1/1/2019 12:00	1260.6
1/1/2019 12:00	1/1/2019 13:00	1246.8
1/1/2019 13:00	1/1/2019 14:00	1204.2
1/1/2019 14:00	1/1/2019 15:00	1173.3
1/1/2019 15:00	1/1/2019 16:00	1159.1
1/1/2019 16:00	1/1/2019 17:00	1256.8
1/1/2019 17:00	1/1/2019 18:00	1345.4
1/1/2019 18:00	1/1/2019 19:00	1238.1
1/1/2019 19:00	1/1/2019 20:00	1157.9
1/1/2019 20:00	1/1/2019 21:00	1156.7
1/1/2019 21:00	1/1/2019 22:00	1052.7
1/1/2019 22:00	1/1/2019 23:00	975.1
1/1/2019 23:00	1/2/2019 0:00	975.6
1/2/2019 0:00	1/2/2019 1:00	928.5
1/2/2019 1:00	1/2/2019 2:00	875.6
1/2/2019 2:00	1/2/2019 3:00	843.2
1/2/2019 3:00	1/2/2019 4:00	857.3
1/2/2019 4:00	1/2/2019 5:00	823.7
1/2/2019 5:00	1/2/2019 6:00	899.7
1/2/2019 6:00	1/2/2019 7:00	1039.2
1/2/2019 7:00	1/2/2019 8:00	1129.3
1/2/2019 8:00	1/2/2019 9:00	1209.6
1/2/2019 9:00	1/2/2019 10:00	1227.4
1/2/2019 10:00	1/2/2019 11:00	1214.1
1/2/2019 11:00	1/2/2019 12:00	1249.9
1/2/2019 12:00	1/2/2019 13:00	1276.6
1/2/2019 13:00	1/2/2019 14:00	1283.9
1/2/2019 14:00	1/2/2019 15:00	1271.0
1/2/2019 15:00	1/2/2019 16:00	1281.2
1/2/2019 16:00	1/2/2019 17:00	1414.9
1/2/2019 17:00	1/2/2019 18:00	1591.6
1/2/2019 18:00	1/2/2019 19:00	1587.4
1/2/2019 19:00	1/2/2019 20:00	1598.6
1/2/2019 20:00	1/2/2019 21:00	1564.3
1/2/2019 21:00	1/2/2019 22:00	1483.9
1/2/2019 22:00	1/2/2019 23:00	1466.5
1/2/2019 23:00	1/3/2019 0:00	1474.8
1/3/2019 0:00	1/3/2019 1:00	1475.1
1/3/2019 1:00	1/3/2019 2:00	1496.1
1/3/2019 2:00	1/3/2019 3:00	1492.2
1/3/2019 3:00	1/3/2019 4:00	1558.1
1/3/2019 4:00	1/3/2019 5:00	1606.0
1/3/2019 5:00	1/3/2019 6:00	1674.2
1/3/2019 6:00	1/3/2019 7:00	1775.5
1/3/2019 7:00	1/3/2019 8:00	1802.8
1/3/2019 8:00	1/3/2019 9:00	1827.3
1/3/2019 9:00	1/3/2019 10:00	1827.3
1/3/2019 10:00	1/3/2019 11:00	1807.1
1/3/2019 11:00	1/3/2019 12:00	1760.9
1/3/2019 12:00	1/3/2019 13:00	1719.5
1/3/2019 13:00	1/3/2019 14:00	1694.3
1/3/2019 14:00	1/3/2019 15:00	1662.0
1/3/2019 15:00	1/3/2019 16:00	1644.2
1/3/2019 16:00	1/3/2019 17:00	1700.0
1/3/2019 17:00	1/3/2019 18:00	1769.8
1/3/2019 18:00	1/3/2019 19:00	1713.5
1/3/2019 19:00	1/3/2019 20:00	1703.5
1/3/2019 20:00	1/3/2019 21:00	1678.9
1/3/2019 21:00	1/3/2019 22:00	1591.8

Start Time	End Time	ANL_MW
1/3/2019 22:00	1/3/2019 23:00	1500.7
1/3/2019 23:00	1/4/2019 0:00	1495.3
1/4/2019 0:00	1/4/2019 1:00	1461.1
1/4/2019 1:00	1/4/2019 2:00	1438.1
1/4/2019 2:00	1/4/2019 3:00	1446.6
1/4/2019 3:00	1/4/2019 4:00	1430.6
1/4/2019 4:00	1/4/2019 5:00	1425.3
1/4/2019 5:00	1/4/2019 6:00	1498.7
1/4/2019 6:00	1/4/2019 7:00	1587.4
1/4/2019 7:00	1/4/2019 8:00	1662.0
1/4/2019 8:00	1/4/2019 9:00	1660.6
1/4/2019 9:00	1/4/2019 10:00	1588.5
1/4/2019 10:00	1/4/2019 11:00	1604.0
1/4/2019 11:00	1/4/2019 12:00	1615.6
1/4/2019 12:00	1/4/2019 13:00	1609.2
1/4/2019 13:00	1/4/2019 14:00	1566.1
1/4/2019 14:00	1/4/2019 15:00	1531.8
1/4/2019 15:00	1/4/2019 16:00	1501.4
1/4/2019 16:00	1/4/2019 17:00	1478.7
1/4/2019 17:00	1/4/2019 18:00	1537.6
1/4/2019 18:00	1/4/2019 19:00	1453.9
1/4/2019 19:00	1/4/2019 20:00	1397.2
1/4/2019 20:00	1/4/2019 21:00	1388.1
1/4/2019 21:00	1/4/2019 22:00	1301.8
1/4/2019 22:00	1/4/2019 23:00	1213.1
1/4/2019 23:00	1/5/2019 0:00	1186.6
1/5/2019 0:00	1/5/2019 1:00	1199.9
1/5/2019 1:00	1/5/2019 2:00	1198.6
1/5/2019 2:00	1/5/2019 3:00	1183.9
1/5/2019 3:00	1/5/2019 4:00	1169.3
1/5/2019 4:00	1/5/2019 5:00	1201.0
1/5/2019 5:00	1/5/2019 6:00	1229.6
1/5/2019 6:00	1/5/2019 7:00	1270.5
1/5/2019 7:00	1/5/2019 8:00	1363.0
1/5/2019 8:00	1/5/2019 9:00	1447.8
1/5/2019 9:00	1/5/2019 10:00	1508.9
1/5/2019 10:00	1/5/2019 11:00	1522.1
1/5/2019 11:00	1/5/2019 12:00	1534.9
1/5/2019 12:00	1/5/2019 13:00	1533.5
1/5/2019 13:00	1/5/2019 14:00	1465.0
1/5/2019 14:00	1/5/2019 15:00	1432.2
1/5/2019 15:00	1/5/2019 16:00	1443.7
1/5/2019 16:00	1/5/2019 17:00	1500.2
1/5/2019 17:00	1/5/2019 18:00	1557.8
1/5/2019 18:00	1/5/2019 19:00	1504.5
1/5/2019 19:00	1/5/2019 20:00	1429.4
1/5/2019 20:00	1/5/2019 21:00	1395.0
1/5/2019 21:00	1/5/2019 22:00	1321.7
1/5/2019 22:00	1/5/2019 23:00	1255.5
1/5/2019 23:00	1/6/2019 0:00	1139.2
1/6/2019 0:00	1/6/2019 1:00	1061.8
1/6/2019 1:00	1/6/2019 2:00	1016.9
1/6/2019 2:00	1/6/2019 3:00	974.9
1/6/2019 3:00	1/6/2019 4:00	975.4
1/6/2019 4:00	1/6/2019 5:00	977.2
1/6/2019 5:00	1/6/2019 6:00	977.5
1/6/2019 6:00	1/6/2019 7:00	1009.7
1/6/2019 7:00	1/6/2019 8:00	1054.6
1/6/2019 8:00	1/6/2019 9:00	1132.8
1/6/2019 9:00	1/6/2019 10:00	1214.6
1/6/2019 10:00	1/6/2019 11:00	1278.8
1/6/2019 11:00	1/6/2019 12:00	1280.9
1/6/2019 12:00	1/6/2019 13:00	1254.5
1/6/2019 13:00	1/6/2019 14:00	1237.2
1/6/2019 14:00	1/6/2019 15:00	1225.2
1/6/2019 15:00	1/6/2019 16:00	1241.8
1/6/2019 16:00	1/6/2019 17:00	1360.4
1/6/2019 17:00	1/6/2019 18:00	1470.6
1/6/2019 18:00	1/6/2019 19:00	1446.8
1/6/2019 19:00	1/6/2019 20:00	1386.2

Start Time	End Time	ANL_MW
1/6/2019 20:00	1/6/2019 21:00	1298.8
1/6/2019 21:00	1/6/2019 22:00	1200.6
1/6/2019 22:00	1/6/2019 23:00	1072.4
1/6/2019 23:00	1/7/2019 0:00	1013.8
1/7/2019 0:00	1/7/2019 1:00	957.7
1/7/2019 1:00	1/7/2019 2:00	901.4
1/7/2019 2:00	1/7/2019 3:00	909.6
1/7/2019 3:00	1/7/2019 4:00	914.5
1/7/2019 4:00	1/7/2019 5:00	932.1
1/7/2019 5:00	1/7/2019 6:00	1001.1
1/7/2019 6:00	1/7/2019 7:00	1154.6
1/7/2019 7:00	1/7/2019 8:00	1302.5
1/7/2019 8:00	1/7/2019 9:00	1353.0
1/7/2019 9:00	1/7/2019 10:00	1357.1
1/7/2019 10:00	1/7/2019 11:00	1320.3
1/7/2019 11:00	1/7/2019 12:00	1298.9
1/7/2019 12:00	1/7/2019 13:00	1302.0
1/7/2019 13:00	1/7/2019 14:00	1291.6
1/7/2019 14:00	1/7/2019 15:00	1284.0
1/7/2019 15:00	1/7/2019 16:00	1299.3
1/7/2019 16:00	1/7/2019 17:00	1387.1
1/7/2019 17:00	1/7/2019 18:00	1535.4
1/7/2019 18:00	1/7/2019 19:00	1543.6
1/7/2019 19:00	1/7/2019 20:00	1482.3
1/7/2019 20:00	1/7/2019 21:00	1452.6
1/7/2019 21:00	1/7/2019 22:00	1422.0
1/7/2019 22:00	1/7/2019 23:00	1333.3
1/7/2019 23:00	1/8/2019 0:00	1365.7
1/8/2019 0:00	1/8/2019 1:00	1384.5
1/8/2019 1:00	1/8/2019 2:00	1415.5
1/8/2019 2:00	1/8/2019 3:00	1453.8
1/8/2019 3:00	1/8/2019 4:00	1479.4
1/8/2019 4:00	1/8/2019 5:00	1455.4
1/8/2019 5:00	1/8/2019 6:00	1504.1
1/8/2019 6:00	1/8/2019 7:00	1660.5
1/8/2019 7:00	1/8/2019 8:00	1742.4
1/8/2019 8:00	1/8/2019 9:00	1742.9
1/8/2019 9:00	1/8/2019 10:00	1743.4
1/8/2019 10:00	1/8/2019 11:00	1719.0
1/8/2019 11:00	1/8/2019 12:00	1696.7
1/8/2019 12:00	1/8/2019 13:00	1687.9
1/8/2019 13:00	1/8/2019 14:00	1649.3
1/8/2019 14:00	1/8/2019 15:00	1643.8
1/8/2019 15:00	1/8/2019 16:00	1659.4
1/8/2019 16:00	1/8/2019 17:00	1688.2
1/8/2019 17:00	1/8/2019 18:00	1711.3
1/8/2019 18:00	1/8/2019 19:00	1691.7
1/8/2019 19:00	1/8/2019 20:00	1625.4
1/8/2019 20:00	1/8/2019 21:00	1511.4
1/8/2019 21:00	1/8/2019 22:00	1396.1
1/8/2019 22:00	1/8/2019 23:00	1287.4
1/8/2019 23:00	1/9/2019 0:00	1252.4
1/9/2019 0:00	1/9/2019 1:00	1189.1
1/9/2019 1:00	1/9/2019 2:00	1099.1
1/9/2019 2:00	1/9/2019 3:00	1026.2
1/9/2019 3:00	1/9/2019 4:00	992.3
1/9/2019 4:00	1/9/2019 5:00	960.4
1/9/2019 5:00	1/9/2019 6:00	993.6
1/9/2019 6:00	1/9/2019 7:00	1104.9
1/9/2019 7:00	1/9/2019 8:00	1134.3
1/9/2019 8:00	1/9/2019 9:00	1183.1
1/9/2019 9:00	1/9/2019 10:00	1241.0
1/9/2019 10:00	1/9/2019 11:00	1220.9
1/9/2019 11:00	1/9/2019 12:00	1219.6
1/9/2019 12:00	1/9/2019 13:00	1242.9
1/9/2019 13:00	1/9/2019 14:00	1234.4
1/9/2019 14:00	1/9/2019 15:00	1250.0
1/9/2019 15:00	1/9/2019 16:00	1205.1
1/9/2019 16:00	1/9/2019 17:00	1193.4
1/9/2019 17:00	1/9/2019 18:00	1241.3

Start Time	End Time	ANL_MW
1/9/2019 18:00	1/9/2019 19:00	1208.9
1/9/2019 19:00	1/9/2019 20:00	1158.4
1/9/2019 20:00	1/9/2019 21:00	1119.0
1/9/2019 21:00	1/9/2019 22:00	1020.3
1/9/2019 22:00	1/9/2019 23:00	900.2
1/9/2019 23:00	1/10/2019 0:00	856.0
1/10/2019 0:00	1/10/2019 1:00	839.8
1/10/2019 1:00	1/10/2019 2:00	796.6
1/10/2019 2:00	1/10/2019 3:00	802.8
1/10/2019 3:00	1/10/2019 4:00	764.5
1/10/2019 4:00	1/10/2019 5:00	781.3
1/10/2019 5:00	1/10/2019 6:00	866.8
1/10/2019 6:00	1/10/2019 7:00	990.7
1/10/2019 7:00	1/10/2019 8:00	1119.2
1/10/2019 8:00	1/10/2019 9:00	1147.2
1/10/2019 9:00	1/10/2019 10:00	1154.9
1/10/2019 10:00	1/10/2019 11:00	1202.8
1/10/2019 11:00	1/10/2019 12:00	1189.5
1/10/2019 12:00	1/10/2019 13:00	1212.1
1/10/2019 13:00	1/10/2019 14:00	1226.8
1/10/2019 14:00	1/10/2019 15:00	1244.1
1/10/2019 15:00	1/10/2019 16:00	1330.8
1/10/2019 16:00	1/10/2019 17:00	1422.4
1/10/2019 17:00	1/10/2019 18:00	1516.1
1/10/2019 18:00	1/10/2019 19:00	1441.6
1/10/2019 19:00	1/10/2019 20:00	1420.5
1/10/2019 20:00	1/10/2019 21:00	1393.3
1/10/2019 21:00	1/10/2019 22:00	1356.6
1/10/2019 22:00	1/10/2019 23:00	1285.5
1/10/2019 23:00	1/11/2019 0:00	1282.1
1/11/2019 0:00	1/11/2019 1:00	1234.7
1/11/2019 1:00	1/11/2019 2:00	1186.1
1/11/2019 2:00	1/11/2019 3:00	1101.3
1/11/2019 3:00	1/11/2019 4:00	1075.0
1/11/2019 4:00	1/11/2019 5:00	1112.9
1/11/2019 5:00	1/11/2019 6:00	1186.6
1/11/2019 6:00	1/11/2019 7:00	1349.4
1/11/2019 7:00	1/11/2019 8:00	1449.8
1/11/2019 8:00	1/11/2019 9:00	1430.3
1/11/2019 9:00	1/11/2019 10:00	1451.5
1/11/2019 10:00	1/11/2019 11:00	1434.1
1/11/2019 11:00	1/11/2019 12:00	1451.8
1/11/2019 12:00	1/11/2019 13:00	1409.6
1/11/2019 13:00	1/11/2019 14:00	1357.8
1/11/2019 14:00	1/11/2019 15:00	1347.0
1/11/2019 15:00	1/11/2019 16:00	1383.8
1/11/2019 16:00	1/11/2019 17:00	1449.9
1/11/2019 17:00	1/11/2019 18:00	1535.7
1/11/2019 18:00	1/11/2019 19:00	1513.7
1/11/2019 19:00	1/11/2019 20:00	1472.3
1/11/2019 20:00	1/11/2019 21:00	1421.6
1/11/2019 21:00	1/11/2019 22:00	1357.0
1/11/2019 22:00	1/11/2019 23:00	1314.1
1/11/2019 23:00	1/12/2019 0:00	1316.0
1/12/2019 0:00	1/12/2019 1:00	1258.6
1/12/2019 1:00	1/12/2019 2:00	1285.7
1/12/2019 2:00	1/12/2019 3:00	1314.2
1/12/2019 3:00	1/12/2019 4:00	1320.2
1/12/2019 4:00	1/12/2019 5:00	1348.5
1/12/2019 5:00	1/12/2019 6:00	1383.8
1/12/2019 6:00	1/12/2019 7:00	1393.8
1/12/2019 7:00	1/12/2019 8:00	1488.9
1/12/2019 8:00	1/12/2019 9:00	1592.5
1/12/2019 9:00	1/12/2019 10:00	1650.4
1/12/2019 10:00	1/12/2019 11:00	1602.3
1/12/2019 11:00	1/12/2019 12:00	1550.9
1/12/2019 12:00	1/12/2019 13:00	1486.9
1/12/2019 13:00	1/12/2019 14:00	1450.4
1/12/2019 14:00	1/12/2019 15:00	1417.5
1/12/2019 15:00	1/12/2019 16:00	1437.3

Start Time	End Time	ANL_MW
1/12/2019 16:00	1/12/2019 17:00	1569.1
1/12/2019 17:00	1/12/2019 18:00	1670.1
1/12/2019 18:00	1/12/2019 19:00	1641.2
1/12/2019 19:00	1/12/2019 20:00	1586.0
1/12/2019 20:00	1/12/2019 21:00	1549.0
1/12/2019 21:00	1/12/2019 22:00	1558.4
1/12/2019 22:00	1/12/2019 23:00	1497.7
1/12/2019 23:00	1/13/2019 0:00	1431.6
1/13/2019 0:00	1/13/2019 1:00	1456.0
1/13/2019 1:00	1/13/2019 2:00	1480.5
1/13/2019 2:00	1/13/2019 3:00	1475.5
1/13/2019 3:00	1/13/2019 4:00	1482.2
1/13/2019 4:00	1/13/2019 5:00	1492.9
1/13/2019 5:00	1/13/2019 6:00	1515.7
1/13/2019 6:00	1/13/2019 7:00	1546.4
1/13/2019 7:00	1/13/2019 8:00	1516.6
1/13/2019 8:00	1/13/2019 9:00	1585.4
1/13/2019 9:00	1/13/2019 10:00	1670.7
1/13/2019 10:00	1/13/2019 11:00	1687.2
1/13/2019 11:00	1/13/2019 12:00	1692.1
1/13/2019 12:00	1/13/2019 13:00	1650.5
1/13/2019 13:00	1/13/2019 14:00	1596.7
1/13/2019 14:00	1/13/2019 15:00	1555.2
1/13/2019 15:00	1/13/2019 16:00	1554.1
1/13/2019 16:00	1/13/2019 17:00	1653.4
1/13/2019 17:00	1/13/2019 18:00	1731.9
1/13/2019 18:00	1/13/2019 19:00	1698.0
1/13/2019 19:00	1/13/2019 20:00	1668.0
1/13/2019 20:00	1/13/2019 21:00	1642.4
1/13/2019 21:00	1/13/2019 22:00	1626.5
1/13/2019 22:00	1/13/2019 23:00	1592.8
1/13/2019 23:00	1/14/2019 0:00	1589.6
1/14/2019 0:00	1/14/2019 1:00	1575.8
1/14/2019 1:00	1/14/2019 2:00	1608.6
1/14/2019 2:00	1/14/2019 3:00	1629.7
1/14/2019 3:00	1/14/2019 4:00	1666.7
1/14/2019 4:00	1/14/2019 5:00	1666.9
1/14/2019 5:00	1/14/2019 6:00	1749.4
1/14/2019 6:00	1/14/2019 7:00	1815.0
1/14/2019 7:00	1/14/2019 8:00	1895.8
1/14/2019 8:00	1/14/2019 9:00	1907.3
1/14/2019 9:00	1/14/2019 10:00	1851.8
1/14/2019 10:00	1/14/2019 11:00	1778.7
1/14/2019 11:00	1/14/2019 12:00	1731.4
1/14/2019 12:00	1/14/2019 13:00	1708.5
1/14/2019 13:00	1/14/2019 14:00	1652.4
1/14/2019 14:00	1/14/2019 15:00	1610.1
1/14/2019 15:00	1/14/2019 16:00	1618.5
1/14/2019 16:00	1/14/2019 17:00	1695.0
1/14/2019 17:00	1/14/2019 18:00	1786.6
1/14/2019 18:00	1/14/2019 19:00	1768.8
1/14/2019 19:00	1/14/2019 20:00	1752.9
1/14/2019 20:00	1/14/2019 21:00	1727.4
1/14/2019 21:00	1/14/2019 22:00	1670.1
1/14/2019 22:00	1/14/2019 23:00	1538.1
1/14/2019 23:00	1/15/2019 0:00	1461.3
1/15/2019 0:00	1/15/2019 1:00	1435.8
1/15/2019 1:00	1/15/2019 2:00	1417.0
1/15/2019 2:00	1/15/2019 3:00	1411.5
1/15/2019 3:00	1/15/2019 4:00	1408.9
1/15/2019 4:00	1/15/2019 5:00	1393.6
1/15/2019 5:00	1/15/2019 6:00	1375.4
1/15/2019 6:00	1/15/2019 7:00	1468.6
1/15/2019 7:00	1/15/2019 8:00	1536.9
1/15/2019 8:00	1/15/2019 9:00	1518.4
1/15/2019 9:00	1/15/2019 10:00	1496.1
1/15/2019 10:00	1/15/2019 11:00	1478.0
1/15/2019 11:00	1/15/2019 12:00	1422.8
1/15/2019 12:00	1/15/2019 13:00	1452.1
1/15/2019 13:00	1/15/2019 14:00	1424.1

Start Time	End Time	ANL_MW
1/15/2019 14:00	1/15/2019 15:00	1388.3
1/15/2019 15:00	1/15/2019 16:00	1428.1
1/15/2019 16:00	1/15/2019 17:00	1525.4
1/15/2019 17:00	1/15/2019 18:00	1674.0
1/15/2019 18:00	1/15/2019 19:00	1693.0
1/15/2019 19:00	1/15/2019 20:00	1668.5
1/15/2019 20:00	1/15/2019 21:00	1644.7
1/15/2019 21:00	1/15/2019 22:00	1599.6
1/15/2019 22:00	1/15/2019 23:00	1535.5
1/15/2019 23:00	1/16/2019 0:00	1527.4
1/16/2019 0:00	1/16/2019 1:00	1534.7
1/16/2019 1:00	1/16/2019 2:00	1522.4
1/16/2019 2:00	1/16/2019 3:00	1545.0
1/16/2019 3:00	1/16/2019 4:00	1547.3
1/16/2019 4:00	1/16/2019 5:00	1555.1
1/16/2019 5:00	1/16/2019 6:00	1601.7
1/16/2019 6:00	1/16/2019 7:00	1628.6
1/16/2019 7:00	1/16/2019 8:00	1696.3
1/16/2019 8:00	1/16/2019 9:00	1676.5
1/16/2019 9:00	1/16/2019 10:00	1661.3
1/16/2019 10:00	1/16/2019 11:00	1595.6
1/16/2019 11:00	1/16/2019 12:00	1545.2
1/16/2019 12:00	1/16/2019 13:00	1465.2
1/16/2019 13:00	1/16/2019 14:00	1404.3
1/16/2019 14:00	1/16/2019 15:00	1338.6
1/16/2019 15:00	1/16/2019 16:00	1355.4
1/16/2019 16:00	1/16/2019 17:00	1410.2
1/16/2019 17:00	1/16/2019 18:00	1451.7
1/16/2019 18:00	1/16/2019 19:00	1432.0
1/16/2019 19:00	1/16/2019 20:00	1392.4
1/16/2019 20:00	1/16/2019 21:00	1359.6
1/16/2019 21:00	1/16/2019 22:00	1272.0
1/16/2019 22:00	1/16/2019 23:00	1240.5
1/16/2019 23:00	1/17/2019 0:00	1198.7
1/17/2019 0:00	1/17/2019 1:00	1169.4
1/17/2019 1:00	1/17/2019 2:00	1125.2
1/17/2019 2:00	1/17/2019 3:00	1052.0
1/17/2019 3:00	1/17/2019 4:00	1012.8
1/17/2019 4:00	1/17/2019 5:00	995.6
1/17/2019 5:00	1/17/2019 6:00	1055.5
1/17/2019 6:00	1/17/2019 7:00	1252.5
1/17/2019 7:00	1/17/2019 8:00	1415.6
1/17/2019 8:00	1/17/2019 9:00	1452.0
1/17/2019 9:00	1/17/2019 10:00	1424.6
1/17/2019 10:00	1/17/2019 11:00	1422.4
1/17/2019 11:00	1/17/2019 12:00	1450.7
1/17/2019 12:00	1/17/2019 13:00	1451.4
1/17/2019 13:00	1/17/2019 14:00	1475.1
1/17/2019 14:00	1/17/2019 15:00	1502.5
1/17/2019 15:00	1/17/2019 16:00	1575.4
1/17/2019 16:00	1/17/2019 17:00	1694.4
1/17/2019 17:00	1/17/2019 18:00	1834.0
1/17/2019 18:00	1/17/2019 19:00	1853.9
1/17/2019 19:00	1/17/2019 20:00	1847.9
1/17/2019 20:00	1/17/2019 21:00	1844.2
1/17/2019 21:00	1/17/2019 22:00	1783.1
1/17/2019 22:00	1/17/2019 23:00	1720.4
1/17/2019 23:00	1/18/2019 0:00	1730.6
1/18/2019 0:00	1/18/2019 1:00	1729.4
1/18/2019 1:00	1/18/2019 2:00	1737.0
1/18/2019 2:00	1/18/2019 3:00	1741.3
1/18/2019 3:00	1/18/2019 4:00	1741.8
1/18/2019 4:00	1/18/2019 5:00	1690.8
1/18/2019 5:00	1/18/2019 6:00	1698.0
1/18/2019 6:00	1/18/2019 7:00	1816.7
1/18/2019 7:00	1/18/2019 8:00	1883.6
1/18/2019 8:00	1/18/2019 9:00	1827.0
1/18/2019 9:00	1/18/2019 10:00	1787.6
1/18/2019 10:00	1/18/2019 11:00	1778.3
1/18/2019 11:00	1/18/2019 12:00	1730.6

Start Time	End Time	ANL_MW
1/18/2019 12:00	1/18/2019 13:00	1677.4
1/18/2019 13:00	1/18/2019 14:00	1603.5
1/18/2019 14:00	1/18/2019 15:00	1526.6
1/18/2019 15:00	1/18/2019 16:00	1486.9
1/18/2019 16:00	1/18/2019 17:00	1495.0
1/18/2019 17:00	1/18/2019 18:00	1579.2
1/18/2019 18:00	1/18/2019 19:00	1547.1
1/18/2019 19:00	1/18/2019 20:00	1519.8
1/18/2019 20:00	1/18/2019 21:00	1492.4
1/18/2019 21:00	1/18/2019 22:00	1417.0
1/18/2019 22:00	1/18/2019 23:00	1375.7
1/18/2019 23:00	1/19/2019 0:00	1414.6
1/19/2019 0:00	1/19/2019 1:00	1411.2
1/19/2019 1:00	1/19/2019 2:00	1385.3
1/19/2019 2:00	1/19/2019 3:00	1312.8
1/19/2019 3:00	1/19/2019 4:00	1225.3
1/19/2019 4:00	1/19/2019 5:00	1145.0
1/19/2019 5:00	1/19/2019 6:00	1124.4
1/19/2019 6:00	1/19/2019 7:00	1108.3
1/19/2019 7:00	1/19/2019 8:00	1184.6
1/19/2019 8:00	1/19/2019 9:00	1310.9
1/19/2019 9:00	1/19/2019 10:00	1320.5
1/19/2019 10:00	1/19/2019 11:00	1374.5
1/19/2019 11:00	1/19/2019 12:00	1438.2
1/19/2019 12:00	1/19/2019 13:00	1450.1
1/19/2019 13:00	1/19/2019 14:00	1436.7
1/19/2019 14:00	1/19/2019 15:00	1468.6
1/19/2019 15:00	1/19/2019 16:00	1548.0
1/19/2019 16:00	1/19/2019 17:00	1674.8
1/19/2019 17:00	1/19/2019 18:00	1764.0
1/19/2019 18:00	1/19/2019 19:00	1750.4
1/19/2019 19:00	1/19/2019 20:00	1710.0
1/19/2019 20:00	1/19/2019 21:00	1668.8
1/19/2019 21:00	1/19/2019 22:00	1619.6
1/19/2019 22:00	1/19/2019 23:00	1545.4
1/19/2019 23:00	1/20/2019 0:00	1500.1
1/20/2019 0:00	1/20/2019 1:00	1467.7
1/20/2019 1:00	1/20/2019 2:00	1469.6
1/20/2019 2:00	1/20/2019 3:00	1469.7
1/20/2019 3:00	1/20/2019 4:00	1445.0
1/20/2019 4:00	1/20/2019 5:00	1420.8
1/20/2019 5:00	1/20/2019 6:00	1406.6
1/20/2019 6:00	1/20/2019 7:00	1427.8
1/20/2019 7:00	1/20/2019 8:00	1442.2
1/20/2019 8:00	1/20/2019 9:00	1432.6
1/20/2019 9:00	1/20/2019 10:00	1417.2
1/20/2019 10:00	1/20/2019 11:00	1425.9
1/20/2019 11:00	1/20/2019 12:00	1387.2
1/20/2019 12:00	1/20/2019 13:00	1360.9
1/20/2019 13:00	1/20/2019 14:00	1354.7
1/20/2019 14:00	1/20/2019 15:00	1286.5
1/20/2019 15:00	1/20/2019 16:00	1269.4
1/20/2019 16:00	1/20/2019 17:00	1310.8
1/20/2019 17:00	1/20/2019 18:00	1316.9
1/20/2019 18:00	1/20/2019 19:00	1262.2
1/20/2019 19:00	1/20/2019 20:00	1197.9
1/20/2019 20:00	1/20/2019 21:00	1149.8
1/20/2019 21:00	1/20/2019 22:00	1029.0
1/20/2019 22:00	1/20/2019 23:00	918.0
1/20/2019 23:00	1/21/2019 0:00	841.6
1/21/2019 0:00	1/21/2019 1:00	840.1
1/21/2019 1:00	1/21/2019 2:00	844.5
1/21/2019 2:00	1/21/2019 3:00	798.0
1/21/2019 3:00	1/21/2019 4:00	791.3
1/21/2019 4:00	1/21/2019 5:00	775.4
1/21/2019 5:00	1/21/2019 6:00	876.3
1/21/2019 6:00	1/21/2019 7:00	1088.0
1/21/2019 7:00	1/21/2019 8:00	1268.9
1/21/2019 8:00	1/21/2019 9:00	1348.6
1/21/2019 9:00	1/21/2019 10:00	1389.2

Start Time	End Time	ANL_MW
1/21/2019 10:00	1/21/2019 11:00	1411.4
1/21/2019 11:00	1/21/2019 12:00	1436.3
1/21/2019 12:00	1/21/2019 13:00	1464.2
1/21/2019 13:00	1/21/2019 14:00	1496.2
1/21/2019 14:00	1/21/2019 15:00	1468.5
1/21/2019 15:00	1/21/2019 16:00	1523.5
1/21/2019 16:00	1/21/2019 17:00	1604.7
1/21/2019 17:00	1/21/2019 18:00	1683.0
1/21/2019 18:00	1/21/2019 19:00	1675.0
1/21/2019 19:00	1/21/2019 20:00	1668.0
1/21/2019 20:00	1/21/2019 21:00	1632.4
1/21/2019 21:00	1/21/2019 22:00	1561.4
1/21/2019 22:00	1/21/2019 23:00	1466.5
1/21/2019 23:00	1/22/2019 0:00	1487.8
1/22/2019 0:00	1/22/2019 1:00	1460.8
1/22/2019 1:00	1/22/2019 2:00	1434.0
1/22/2019 2:00	1/22/2019 3:00	1464.1
1/22/2019 3:00	1/22/2019 4:00	1455.2
1/22/2019 4:00	1/22/2019 5:00	1436.5
1/22/2019 5:00	1/22/2019 6:00	1480.4
1/22/2019 6:00	1/22/2019 7:00	1607.5
1/22/2019 7:00	1/22/2019 8:00	1665.3
1/22/2019 8:00	1/22/2019 9:00	1599.3
1/22/2019 9:00	1/22/2019 10:00	1564.3
1/22/2019 10:00	1/22/2019 11:00	1534.9
1/22/2019 11:00	1/22/2019 12:00	1520.0
1/22/2019 12:00	1/22/2019 13:00	1536.4
1/22/2019 13:00	1/22/2019 14:00	1504.9
1/22/2019 14:00	1/22/2019 15:00	1478.5
1/22/2019 15:00	1/22/2019 16:00	1487.7
1/22/2019 16:00	1/22/2019 17:00	1509.4
1/22/2019 17:00	1/22/2019 18:00	1580.5
1/22/2019 18:00	1/22/2019 19:00	1567.4
1/22/2019 19:00	1/22/2019 20:00	1507.7
1/22/2019 20:00	1/22/2019 21:00	1447.9
1/22/2019 21:00	1/22/2019 22:00	1358.2
1/22/2019 22:00	1/22/2019 23:00	1326.0
1/22/2019 23:00	1/23/2019 0:00	1299.9
1/23/2019 0:00	1/23/2019 1:00	1373.9
1/23/2019 1:00	1/23/2019 2:00	1422.1
1/23/2019 2:00	1/23/2019 3:00	1411.0
1/23/2019 3:00	1/23/2019 4:00	1452.0
1/23/2019 4:00	1/23/2019 5:00	1470.7
1/23/2019 5:00	1/23/2019 6:00	1490.2
1/23/2019 6:00	1/23/2019 7:00	1668.3
1/23/2019 7:00	1/23/2019 8:00	1749.1
1/23/2019 8:00	1/23/2019 9:00	1822.8
1/23/2019 9:00	1/23/2019 10:00	1805.9
1/23/2019 10:00	1/23/2019 11:00	1777.4
1/23/2019 11:00	1/23/2019 12:00	1711.7
1/23/2019 12:00	1/23/2019 13:00	1650.4
1/23/2019 13:00	1/23/2019 14:00	1586.6
1/23/2019 14:00	1/23/2019 15:00	1605.0
1/23/2019 15:00	1/23/2019 16:00	1686.0
1/23/2019 16:00	1/23/2019 17:00	1736.3
1/23/2019 17:00	1/23/2019 18:00	1724.6
1/23/2019 18:00	1/23/2019 19:00	1639.1
1/23/2019 19:00	1/23/2019 20:00	1562.4
1/23/2019 20:00	1/23/2019 21:00	1462.6
1/23/2019 21:00	1/23/2019 22:00	1339.2
1/23/2019 22:00	1/23/2019 23:00	1265.1
1/23/2019 23:00	1/24/2019 0:00	1236.8
1/24/2019 0:00	1/24/2019 1:00	1168.9
1/24/2019 1:00	1/24/2019 2:00	1105.0
1/24/2019 2:00	1/24/2019 3:00	1076.0
1/24/2019 3:00	1/24/2019 4:00	1026.5
1/24/2019 4:00	1/24/2019 5:00	989.6
1/24/2019 5:00	1/24/2019 6:00	1005.0
1/24/2019 6:00	1/24/2019 7:00	1100.1
1/24/2019 7:00	1/24/2019 8:00	1157.8

Start Time	End Time	ANL_MW
1/24/2019 8:00	1/24/2019 9:00	1132.0
1/24/2019 9:00	1/24/2019 10:00	1108.2
1/24/2019 10:00	1/24/2019 11:00	1073.5
1/24/2019 11:00	1/24/2019 12:00	1049.5
1/24/2019 12:00	1/24/2019 13:00	1022.9
1/24/2019 13:00	1/24/2019 14:00	994.0
1/24/2019 14:00	1/24/2019 15:00	963.8
1/24/2019 15:00	1/24/2019 16:00	1001.8
1/24/2019 16:00	1/24/2019 17:00	1040.7
1/24/2019 17:00	1/24/2019 18:00	1094.5
1/24/2019 18:00	1/24/2019 19:00	1071.6
1/24/2019 19:00	1/24/2019 20:00	1062.7
1/24/2019 20:00	1/24/2019 21:00	1053.7
1/24/2019 21:00	1/24/2019 22:00	1061.9
1/24/2019 22:00	1/24/2019 23:00	1041.8
1/24/2019 23:00	1/25/2019 0:00	994.4
1/25/2019 0:00	1/25/2019 1:00	938.5
1/25/2019 1:00	1/25/2019 2:00	829.8
1/25/2019 2:00	1/25/2019 3:00	792.7
1/25/2019 3:00	1/25/2019 4:00	707.3
1/25/2019 4:00	1/25/2019 5:00	711.5
1/25/2019 5:00	1/25/2019 6:00	778.9
1/25/2019 6:00	1/25/2019 7:00	893.8
1/25/2019 7:00	1/25/2019 8:00	1012.8
1/25/2019 8:00	1/25/2019 9:00	1060.6
1/25/2019 9:00	1/25/2019 10:00	1071.2
1/25/2019 10:00	1/25/2019 11:00	1101.2
1/25/2019 11:00	1/25/2019 12:00	1105.0
1/25/2019 12:00	1/25/2019 13:00	1041.4
1/25/2019 13:00	1/25/2019 14:00	1024.1
1/25/2019 14:00	1/25/2019 15:00	1038.8
1/25/2019 15:00	1/25/2019 16:00	1071.9
1/25/2019 16:00	1/25/2019 17:00	1191.1
1/25/2019 17:00	1/25/2019 18:00	1319.6
1/25/2019 18:00	1/25/2019 19:00	1338.5
1/25/2019 19:00	1/25/2019 20:00	1288.4
1/25/2019 20:00	1/25/2019 21:00	1248.7
1/25/2019 21:00	1/25/2019 22:00	1207.6
1/25/2019 22:00	1/25/2019 23:00	1181.2
1/25/2019 23:00	1/26/2019 0:00	1227.6
1/26/2019 0:00	1/26/2019 1:00	1225.5
1/26/2019 1:00	1/26/2019 2:00	1226.6
1/26/2019 2:00	1/26/2019 3:00	1201.2
1/26/2019 3:00	1/26/2019 4:00	1227.7
1/26/2019 4:00	1/26/2019 5:00	1236.5
1/26/2019 5:00	1/26/2019 6:00	1279.1
1/26/2019 6:00	1/26/2019 7:00	1304.6
1/26/2019 7:00	1/26/2019 8:00	1379.2
1/26/2019 8:00	1/26/2019 9:00	1443.2
1/26/2019 9:00	1/26/2019 10:00	1503.4
1/26/2019 10:00	1/26/2019 11:00	1494.9
1/26/2019 11:00	1/26/2019 12:00	1484.1
1/26/2019 12:00	1/26/2019 13:00	1437.4
1/26/2019 13:00	1/26/2019 14:00	1371.5
1/26/2019 14:00	1/26/2019 15:00	1356.4
1/26/2019 15:00	1/26/2019 16:00	1369.8
1/26/2019 16:00	1/26/2019 17:00	1476.4
1/26/2019 17:00	1/26/2019 18:00	1567.0
1/26/2019 18:00	1/26/2019 19:00	1541.6
1/26/2019 19:00	1/26/2019 20:00	1481.7
1/26/2019 20:00	1/26/2019 21:00	1433.3
1/26/2019 21:00	1/26/2019 22:00	1414.7
1/26/2019 22:00	1/26/2019 23:00	1363.2
1/26/2019 23:00	1/27/2019 0:00	1335.4
1/27/2019 0:00	1/27/2019 1:00	1306.5
1/27/2019 1:00	1/27/2019 2:00	1350.2
1/27/2019 2:00	1/27/2019 3:00	1344.6
1/27/2019 3:00	1/27/2019 4:00	1347.0
1/27/2019 4:00	1/27/2019 5:00	1351.6
1/27/2019 5:00	1/27/2019 6:00	1385.6

Start Time	End Time	ANL_MW
1/27/2019 6:00	1/27/2019 7:00	1398.9
1/27/2019 7:00	1/27/2019 8:00	1464.9
1/27/2019 8:00	1/27/2019 9:00	1541.8
1/27/2019 9:00	1/27/2019 10:00	1582.0
1/27/2019 10:00	1/27/2019 11:00	1534.0
1/27/2019 11:00	1/27/2019 12:00	1482.8
1/27/2019 12:00	1/27/2019 13:00	1493.6
1/27/2019 13:00	1/27/2019 14:00	1461.5
1/27/2019 14:00	1/27/2019 15:00	1396.4
1/27/2019 15:00	1/27/2019 16:00	1352.6
1/27/2019 16:00	1/27/2019 17:00	1403.7
1/27/2019 17:00	1/27/2019 18:00	1440.9
1/27/2019 18:00	1/27/2019 19:00	1373.6
1/27/2019 19:00	1/27/2019 20:00	1316.1
1/27/2019 20:00	1/27/2019 21:00	1278.1
1/27/2019 21:00	1/27/2019 22:00	1226.4
1/27/2019 22:00	1/27/2019 23:00	1109.7
1/27/2019 23:00	1/28/2019 0:00	1006.7
1/28/2019 0:00	1/28/2019 1:00	984.7
1/28/2019 1:00	1/28/2019 2:00	975.4
1/28/2019 2:00	1/28/2019 3:00	963.5
1/28/2019 3:00	1/28/2019 4:00	984.9
1/28/2019 4:00	1/28/2019 5:00	1031.9
1/28/2019 5:00	1/28/2019 6:00	1119.6
1/28/2019 6:00	1/28/2019 7:00	1297.0
1/28/2019 7:00	1/28/2019 8:00	1338.8
1/28/2019 8:00	1/28/2019 9:00	1385.8
1/28/2019 9:00	1/28/2019 10:00	1365.3
1/28/2019 10:00	1/28/2019 11:00	1380.1
1/28/2019 11:00	1/28/2019 12:00	1417.7
1/28/2019 12:00	1/28/2019 13:00	1415.4
1/28/2019 13:00	1/28/2019 14:00	1392.8
1/28/2019 14:00	1/28/2019 15:00	1352.0
1/28/2019 15:00	1/28/2019 16:00	1363.2
1/28/2019 16:00	1/28/2019 17:00	1380.0
1/28/2019 17:00	1/28/2019 18:00	1457.7
1/28/2019 18:00	1/28/2019 19:00	1426.0
1/28/2019 19:00	1/28/2019 20:00	1401.1
1/28/2019 20:00	1/28/2019 21:00	1329.8
1/28/2019 21:00	1/28/2019 22:00	1256.3
1/28/2019 22:00	1/28/2019 23:00	1216.1
1/28/2019 23:00	1/29/2019 0:00	1265.9
1/29/2019 0:00	1/29/2019 1:00	1280.0
1/29/2019 1:00	1/29/2019 2:00	1211.5
1/29/2019 2:00	1/29/2019 3:00	1265.7
1/29/2019 3:00	1/29/2019 4:00	1210.5
1/29/2019 4:00	1/29/2019 5:00	1209.1
1/29/2019 5:00	1/29/2019 6:00	1286.6
1/29/2019 6:00	1/29/2019 7:00	1423.0
1/29/2019 7:00	1/29/2019 8:00	1513.3
1/29/2019 8:00	1/29/2019 9:00	1558.0
1/29/2019 9:00	1/29/2019 10:00	1532.9
1/29/2019 10:00	1/29/2019 11:00	1518.1
1/29/2019 11:00	1/29/2019 12:00	1528.3
1/29/2019 12:00	1/29/2019 13:00	1544.1
1/29/2019 13:00	1/29/2019 14:00	1509.5
1/29/2019 14:00	1/29/2019 15:00	1512.2
1/29/2019 15:00	1/29/2019 16:00	1524.6
1/29/2019 16:00	1/29/2019 17:00	1573.7
1/29/2019 17:00	1/29/2019 18:00	1691.1
1/29/2019 18:00	1/29/2019 19:00	1718.4
1/29/2019 19:00	1/29/2019 20:00	1694.7
1/29/2019 20:00	1/29/2019 21:00	1645.5
1/29/2019 21:00	1/29/2019 22:00	1565.1
1/29/2019 22:00	1/29/2019 23:00	1450.6
1/29/2019 23:00	1/30/2019 0:00	1341.7
1/30/2019 0:00	1/30/2019 1:00	1301.0
1/30/2019 1:00	1/30/2019 2:00	1277.8
1/30/2019 2:00	1/30/2019 3:00	1199.5
1/30/2019 3:00	1/30/2019 4:00	1156.5

Start Time	End Time	ANL_MW
1/30/2019 4:00	1/30/2019 5:00	1157.3
1/30/2019 5:00	1/30/2019 6:00	1194.9
1/30/2019 6:00	1/30/2019 7:00	1304.3
1/30/2019 7:00	1/30/2019 8:00	1342.9
1/30/2019 8:00	1/30/2019 9:00	1311.3
1/30/2019 9:00	1/30/2019 10:00	1296.7
1/30/2019 10:00	1/30/2019 11:00	1294.8
1/30/2019 11:00	1/30/2019 12:00	1299.3
1/30/2019 12:00	1/30/2019 13:00	1341.6
1/30/2019 13:00	1/30/2019 14:00	1300.2
1/30/2019 14:00	1/30/2019 15:00	1252.7
1/30/2019 15:00	1/30/2019 16:00	1234.9
1/30/2019 16:00	1/30/2019 17:00	1259.5
1/30/2019 17:00	1/30/2019 18:00	1312.5
1/30/2019 18:00	1/30/2019 19:00	1275.3
1/30/2019 19:00	1/30/2019 20:00	1224.7
1/30/2019 20:00	1/30/2019 21:00	1186.1
1/30/2019 21:00	1/30/2019 22:00	1138.9
1/30/2019 22:00	1/30/2019 23:00	1094.0
1/30/2019 23:00	1/31/2019 0:00	1206.9
1/31/2019 0:00	1/31/2019 1:00	1277.9
1/31/2019 1:00	1/31/2019 2:00	1342.1
1/31/2019 2:00	1/31/2019 3:00	1240.8
1/31/2019 3:00	1/31/2019 4:00	1145.6
1/31/2019 4:00	1/31/2019 5:00	1070.2
1/31/2019 5:00	1/31/2019 6:00	1074.2
1/31/2019 6:00	1/31/2019 7:00	1140.6
1/31/2019 7:00	1/31/2019 8:00	1225.0
1/31/2019 8:00	1/31/2019 9:00	1321.1
1/31/2019 9:00	1/31/2019 10:00	1374.0
1/31/2019 10:00	1/31/2019 11:00	1385.2
1/31/2019 11:00	1/31/2019 12:00	1324.3
1/31/2019 12:00	1/31/2019 13:00	1289.9
1/31/2019 13:00	1/31/2019 14:00	1271.2
1/31/2019 14:00	1/31/2019 15:00	1277.4
1/31/2019 15:00	1/31/2019 16:00	1373.0
1/31/2019 16:00	1/31/2019 17:00	1458.9
1/31/2019 17:00	1/31/2019 18:00	1519.2
1/31/2019 18:00	1/31/2019 19:00	1525.3
1/31/2019 19:00	1/31/2019 20:00	1529.2
1/31/2019 20:00	1/31/2019 21:00	1464.0
1/31/2019 21:00	1/31/2019 22:00	1418.9
1/31/2019 22:00	1/31/2019 23:00	1351.9
1/31/2019 23:00	2/1/2019 0:00	1377.6
2/1/2019 0:00	2/1/2019 1:00	1386.6
2/1/2019 1:00	2/1/2019 2:00	1329.1
2/1/2019 2:00	2/1/2019 3:00	1444.6
2/1/2019 3:00	2/1/2019 4:00	1470.2
2/1/2019 4:00	2/1/2019 5:00	1494.5
2/1/2019 5:00	2/1/2019 6:00	1554.4
2/1/2019 6:00	2/1/2019 7:00	1622.9
2/1/2019 7:00	2/1/2019 8:00	1658.8
2/1/2019 8:00	2/1/2019 9:00	1589.8
2/1/2019 9:00	2/1/2019 10:00	1605.2
2/1/2019 10:00	2/1/2019 11:00	1505.0
2/1/2019 11:00	2/1/2019 12:00	1440.6
2/1/2019 12:00	2/1/2019 13:00	1412.1
2/1/2019 13:00	2/1/2019 14:00	1394.9
2/1/2019 14:00	2/1/2019 15:00	1367.3
2/1/2019 15:00	2/1/2019 16:00	1390.3
2/1/2019 16:00	2/1/2019 17:00	1442.9
2/1/2019 17:00	2/1/2019 18:00	1578.4
2/1/2019 18:00	2/1/2019 19:00	1594.1
2/1/2019 19:00	2/1/2019 20:00	1545.2
2/1/2019 20:00	2/1/2019 21:00	1488.0
2/1/2019 21:00	2/1/2019 22:00	1370.9
2/1/2019 22:00	2/1/2019 23:00	1323.3
2/1/2019 23:00	2/2/2019 0:00	1296.4
2/2/2019 0:00	2/2/2019 1:00	1277.0
2/2/2019 1:00	2/2/2019 2:00	1350.2

Start Time	End Time	ANL_MW
2/2/2019 2:00	2/2/2019 3:00	1342.8
2/2/2019 3:00	2/2/2019 4:00	1324.4
2/2/2019 4:00	2/2/2019 5:00	1366.3
2/2/2019 5:00	2/2/2019 6:00	1370.7
2/2/2019 6:00	2/2/2019 7:00	1437.3
2/2/2019 7:00	2/2/2019 8:00	1469.2
2/2/2019 8:00	2/2/2019 9:00	1540.8
2/2/2019 9:00	2/2/2019 10:00	1622.2
2/2/2019 10:00	2/2/2019 11:00	1511.1
2/2/2019 11:00	2/2/2019 12:00	1399.0
2/2/2019 12:00	2/2/2019 13:00	1350.7
2/2/2019 13:00	2/2/2019 14:00	1340.8
2/2/2019 14:00	2/2/2019 15:00	1324.0
2/2/2019 15:00	2/2/2019 16:00	1396.3
2/2/2019 16:00	2/2/2019 17:00	1514.4
2/2/2019 17:00	2/2/2019 18:00	1665.5
2/2/2019 18:00	2/2/2019 19:00	1690.6
2/2/2019 19:00	2/2/2019 20:00	1633.2
2/2/2019 20:00	2/2/2019 21:00	1530.8
2/2/2019 21:00	2/2/2019 22:00	1508.1
2/2/2019 22:00	2/2/2019 23:00	1338.6
2/2/2019 23:00	2/3/2019 0:00	1253.7
2/3/2019 0:00	2/3/2019 1:00	1131.9
2/3/2019 1:00	2/3/2019 2:00	1121.7
2/3/2019 2:00	2/3/2019 3:00	1179.1
2/3/2019 3:00	2/3/2019 4:00	1202.9
2/3/2019 4:00	2/3/2019 5:00	1228.6
2/3/2019 5:00	2/3/2019 6:00	1219.3
2/3/2019 6:00	2/3/2019 7:00	1219.1
2/3/2019 7:00	2/3/2019 8:00	1252.5
2/3/2019 8:00	2/3/2019 9:00	1318.3
2/3/2019 9:00	2/3/2019 10:00	1433.4
2/3/2019 10:00	2/3/2019 11:00	1496.8
2/3/2019 11:00	2/3/2019 12:00	1475.4
2/3/2019 12:00	2/3/2019 13:00	1435.8
2/3/2019 13:00	2/3/2019 14:00	1366.7
2/3/2019 14:00	2/3/2019 15:00	1363.0
2/3/2019 15:00	2/3/2019 16:00	1390.9
2/3/2019 16:00	2/3/2019 17:00	1524.8
2/3/2019 17:00	2/3/2019 18:00	1619.9
2/3/2019 18:00	2/3/2019 19:00	1661.7
2/3/2019 19:00	2/3/2019 20:00	1658.2
2/3/2019 20:00	2/3/2019 21:00	1638.0
2/3/2019 21:00	2/3/2019 22:00	1608.9
2/3/2019 22:00	2/3/2019 23:00	1537.3
2/3/2019 23:00	2/4/2019 0:00	1460.8
2/4/2019 0:00	2/4/2019 1:00	1388.1
2/4/2019 1:00	2/4/2019 2:00	1309.5
2/4/2019 2:00	2/4/2019 3:00	1246.4
2/4/2019 3:00	2/4/2019 4:00	1173.1
2/4/2019 4:00	2/4/2019 5:00	1130.1
2/4/2019 5:00	2/4/2019 6:00	1160.5
2/4/2019 6:00	2/4/2019 7:00	1302.2
2/4/2019 7:00	2/4/2019 8:00	1359.0
2/4/2019 8:00	2/4/2019 9:00	1352.4
2/4/2019 9:00	2/4/2019 10:00	1341.7
2/4/2019 10:00	2/4/2019 11:00	1387.9
2/4/2019 11:00	2/4/2019 12:00	1411.6
2/4/2019 12:00	2/4/2019 13:00	1413.0
2/4/2019 13:00	2/4/2019 14:00	1394.0
2/4/2019 14:00	2/4/2019 15:00	1355.8
2/4/2019 15:00	2/4/2019 16:00	1364.7
2/4/2019 16:00	2/4/2019 17:00	1439.4
2/4/2019 17:00	2/4/2019 18:00	1453.4
2/4/2019 18:00	2/4/2019 19:00	1444.4
2/4/2019 19:00	2/4/2019 20:00	1449.9
2/4/2019 20:00	2/4/2019 21:00	1443.9
2/4/2019 21:00	2/4/2019 22:00	1415.1
2/4/2019 22:00	2/4/2019 23:00	1389.3
2/4/2019 23:00	2/5/2019 0:00	1375.1

Start Time	End Time	ANL_MW
2/5/2019 0:00	2/5/2019 1:00	1359.1
2/5/2019 1:00	2/5/2019 2:00	1372.9
2/5/2019 2:00	2/5/2019 3:00	1321.8
2/5/2019 3:00	2/5/2019 4:00	1288.7
2/5/2019 4:00	2/5/2019 5:00	1266.7
2/5/2019 5:00	2/5/2019 6:00	1238.0
2/5/2019 6:00	2/5/2019 7:00	1324.8
2/5/2019 7:00	2/5/2019 8:00	1361.9
2/5/2019 8:00	2/5/2019 9:00	1285.1
2/5/2019 9:00	2/5/2019 10:00	1260.7
2/5/2019 10:00	2/5/2019 11:00	1245.9
2/5/2019 11:00	2/5/2019 12:00	1237.2
2/5/2019 12:00	2/5/2019 13:00	1222.8
2/5/2019 13:00	2/5/2019 14:00	1179.6
2/5/2019 14:00	2/5/2019 15:00	1109.2
2/5/2019 15:00	2/5/2019 16:00	1121.3
2/5/2019 16:00	2/5/2019 17:00	1138.4
2/5/2019 17:00	2/5/2019 18:00	1174.4
2/5/2019 18:00	2/5/2019 19:00	1165.4
2/5/2019 19:00	2/5/2019 20:00	1150.1
2/5/2019 20:00	2/5/2019 21:00	1173.4
2/5/2019 21:00	2/5/2019 22:00	1141.1
2/5/2019 22:00	2/5/2019 23:00	1046.0
2/5/2019 23:00	2/6/2019 0:00	919.8
2/6/2019 0:00	2/6/2019 1:00	906.1
2/6/2019 1:00	2/6/2019 2:00	851.4
2/6/2019 2:00	2/6/2019 3:00	775.9
2/6/2019 3:00	2/6/2019 4:00	796.3
2/6/2019 4:00	2/6/2019 5:00	869.0
2/6/2019 5:00	2/6/2019 6:00	916.6
2/6/2019 6:00	2/6/2019 7:00	1108.6
2/6/2019 7:00	2/6/2019 8:00	1233.6
2/6/2019 8:00	2/6/2019 9:00	1201.9
2/6/2019 9:00	2/6/2019 10:00	1234.4
2/6/2019 10:00	2/6/2019 11:00	1264.9
2/6/2019 11:00	2/6/2019 12:00	1275.3
2/6/2019 12:00	2/6/2019 13:00	1337.8
2/6/2019 13:00	2/6/2019 14:00	1334.6
2/6/2019 14:00	2/6/2019 15:00	1307.9
2/6/2019 15:00	2/6/2019 16:00	1347.8
2/6/2019 16:00	2/6/2019 17:00	1417.0
2/6/2019 17:00	2/6/2019 18:00	1524.4
2/6/2019 18:00	2/6/2019 19:00	1570.5
2/6/2019 19:00	2/6/2019 20:00	1550.5
2/6/2019 20:00	2/6/2019 21:00	1523.1
2/6/2019 21:00	2/6/2019 22:00	1490.9
2/6/2019 22:00	2/6/2019 23:00	1480.7
2/6/2019 23:00	2/7/2019 0:00	1470.4
2/7/2019 0:00	2/7/2019 1:00	1478.9
2/7/2019 1:00	2/7/2019 2:00	1453.4
2/7/2019 2:00	2/7/2019 3:00	1422.1
2/7/2019 3:00	2/7/2019 4:00	1410.8
2/7/2019 4:00	2/7/2019 5:00	1419.8
2/7/2019 5:00	2/7/2019 6:00	1428.7
2/7/2019 6:00	2/7/2019 7:00	1536.1
2/7/2019 7:00	2/7/2019 8:00	1634.2
2/7/2019 8:00	2/7/2019 9:00	1663.8
2/7/2019 9:00	2/7/2019 10:00	1644.5
2/7/2019 10:00	2/7/2019 11:00	1629.7
2/7/2019 11:00	2/7/2019 12:00	1590.6
2/7/2019 12:00	2/7/2019 13:00	1573.5
2/7/2019 13:00	2/7/2019 14:00	1530.3
2/7/2019 14:00	2/7/2019 15:00	1512.6
2/7/2019 15:00	2/7/2019 16:00	1525.1
2/7/2019 16:00	2/7/2019 17:00	1556.3
2/7/2019 17:00	2/7/2019 18:00	1600.9
2/7/2019 18:00	2/7/2019 19:00	1587.6
2/7/2019 19:00	2/7/2019 20:00	1565.1
2/7/2019 20:00	2/7/2019 21:00	1533.0
2/7/2019 21:00	2/7/2019 22:00	1448.9

Start Time	End Time	ANL_MW
2/7/2019 22:00	2/7/2019 23:00	1337.7
2/7/2019 23:00	2/8/2019 0:00	1301.3
2/8/2019 0:00	2/8/2019 1:00	1260.1
2/8/2019 1:00	2/8/2019 2:00	1206.1
2/8/2019 2:00	2/8/2019 3:00	1172.9
2/8/2019 3:00	2/8/2019 4:00	1152.0
2/8/2019 4:00	2/8/2019 5:00	1147.7
2/8/2019 5:00	2/8/2019 6:00	1166.4
2/8/2019 6:00	2/8/2019 7:00	1279.6
2/8/2019 7:00	2/8/2019 8:00	1406.4
2/8/2019 8:00	2/8/2019 9:00	1477.9
2/8/2019 9:00	2/8/2019 10:00	1463.5
2/8/2019 10:00	2/8/2019 11:00	1355.7
2/8/2019 11:00	2/8/2019 12:00	1183.4
2/8/2019 12:00	2/8/2019 13:00	1118.7
2/8/2019 13:00	2/8/2019 14:00	1044.1
2/8/2019 14:00	2/8/2019 15:00	1018.7
2/8/2019 15:00	2/8/2019 16:00	1022.3
2/8/2019 16:00	2/8/2019 17:00	1013.8
2/8/2019 17:00	2/8/2019 18:00	1019.6
2/8/2019 18:00	2/8/2019 19:00	1041.5
2/8/2019 19:00	2/8/2019 20:00	1005.2
2/8/2019 20:00	2/8/2019 21:00	974.8
2/8/2019 21:00	2/8/2019 22:00	947.4
2/8/2019 22:00	2/8/2019 23:00	985.8
2/8/2019 23:00	2/9/2019 0:00	980.3
2/9/2019 0:00	2/9/2019 1:00	932.0
2/9/2019 1:00	2/9/2019 2:00	897.1
2/9/2019 2:00	2/9/2019 3:00	884.4
2/9/2019 3:00	2/9/2019 4:00	898.2
2/9/2019 4:00	2/9/2019 5:00	949.0
2/9/2019 5:00	2/9/2019 6:00	1001.7
2/9/2019 6:00	2/9/2019 7:00	1060.2
2/9/2019 7:00	2/9/2019 8:00	1113.2
2/9/2019 8:00	2/9/2019 9:00	1200.2
2/9/2019 9:00	2/9/2019 10:00	1263.1
2/9/2019 10:00	2/9/2019 11:00	1337.8
2/9/2019 11:00	2/9/2019 12:00	1294.6
2/9/2019 12:00	2/9/2019 13:00	1303.5
2/9/2019 13:00	2/9/2019 14:00	1254.4
2/9/2019 14:00	2/9/2019 15:00	1250.4
2/9/2019 15:00	2/9/2019 16:00	1264.2
2/9/2019 16:00	2/9/2019 17:00	1347.6
2/9/2019 17:00	2/9/2019 18:00	1454.7
2/9/2019 18:00	2/9/2019 19:00	1466.5
2/9/2019 19:00	2/9/2019 20:00	1442.8
2/9/2019 20:00	2/9/2019 21:00	1361.3
2/9/2019 21:00	2/9/2019 22:00	1304.1
2/9/2019 22:00	2/9/2019 23:00	1221.4
2/9/2019 23:00	2/10/2019 0:00	1164.0
2/10/2019 0:00	2/10/2019 1:00	1140.4
2/10/2019 1:00	2/10/2019 2:00	1129.4
2/10/2019 2:00	2/10/2019 3:00	1148.3
2/10/2019 3:00	2/10/2019 4:00	1149.9
2/10/2019 4:00	2/10/2019 5:00	1158.4
2/10/2019 5:00	2/10/2019 6:00	1127.3
2/10/2019 6:00	2/10/2019 7:00	1182.9
2/10/2019 7:00	2/10/2019 8:00	1251.1
2/10/2019 8:00	2/10/2019 9:00	1327.8
2/10/2019 9:00	2/10/2019 10:00	1324.4
2/10/2019 10:00	2/10/2019 11:00	1332.8
2/10/2019 11:00	2/10/2019 12:00	1283.6
2/10/2019 12:00	2/10/2019 13:00	1217.4
2/10/2019 13:00	2/10/2019 14:00	1163.8
2/10/2019 14:00	2/10/2019 15:00	1171.8
2/10/2019 15:00	2/10/2019 16:00	1181.3
2/10/2019 16:00	2/10/2019 17:00	1259.5
2/10/2019 17:00	2/10/2019 18:00	1368.2
2/10/2019 18:00	2/10/2019 19:00	1428.7
2/10/2019 19:00	2/10/2019 20:00	1410.9

Start Time	End Time	ANL_MW
2/10/2019 20:00	2/10/2019 21:00	1357.0
2/10/2019 21:00	2/10/2019 22:00	1299.6
2/10/2019 22:00	2/10/2019 23:00	1244.7
2/10/2019 23:00	2/11/2019 0:00	1191.2
2/11/2019 0:00	2/11/2019 1:00	1163.5
2/11/2019 1:00	2/11/2019 2:00	1155.4
2/11/2019 2:00	2/11/2019 3:00	1167.1
2/11/2019 3:00	2/11/2019 4:00	1183.0
2/11/2019 4:00	2/11/2019 5:00	1207.5
2/11/2019 5:00	2/11/2019 6:00	1252.5
2/11/2019 6:00	2/11/2019 7:00	1300.6
2/11/2019 7:00	2/11/2019 8:00	1363.8
2/11/2019 8:00	2/11/2019 9:00	1367.7
2/11/2019 9:00	2/11/2019 10:00	1322.5
2/11/2019 10:00	2/11/2019 11:00	1292.1
2/11/2019 11:00	2/11/2019 12:00	1301.6
2/11/2019 12:00	2/11/2019 13:00	1306.4
2/11/2019 13:00	2/11/2019 14:00	1265.1
2/11/2019 14:00	2/11/2019 15:00	1229.2
2/11/2019 15:00	2/11/2019 16:00	1260.8
2/11/2019 16:00	2/11/2019 17:00	1319.6
2/11/2019 17:00	2/11/2019 18:00	1407.7
2/11/2019 18:00	2/11/2019 19:00	1418.6
2/11/2019 19:00	2/11/2019 20:00	1381.9
2/11/2019 20:00	2/11/2019 21:00	1357.3
2/11/2019 21:00	2/11/2019 22:00	1302.1
2/11/2019 22:00	2/11/2019 23:00	1223.3
2/11/2019 23:00	2/12/2019 0:00	1233.6
2/12/2019 0:00	2/12/2019 1:00	1224.6
2/12/2019 1:00	2/12/2019 2:00	1185.7
2/12/2019 2:00	2/12/2019 3:00	1178.9
2/12/2019 3:00	2/12/2019 4:00	1191.6
2/12/2019 4:00	2/12/2019 5:00	1234.1
2/12/2019 5:00	2/12/2019 6:00	1337.0
2/12/2019 6:00	2/12/2019 7:00	1442.2
2/12/2019 7:00	2/12/2019 8:00	1498.4
2/12/2019 8:00	2/12/2019 9:00	1511.6
2/12/2019 9:00	2/12/2019 10:00	1525.0
2/12/2019 10:00	2/12/2019 11:00	1496.1
2/12/2019 11:00	2/12/2019 12:00	1470.8
2/12/2019 12:00	2/12/2019 13:00	1518.7
2/12/2019 13:00	2/12/2019 14:00	1438.1
2/12/2019 14:00	2/12/2019 15:00	1346.6
2/12/2019 15:00	2/12/2019 16:00	1372.6
2/12/2019 16:00	2/12/2019 17:00	1516.8
2/12/2019 17:00	2/12/2019 18:00	1652.6
2/12/2019 18:00	2/12/2019 19:00	1701.6
2/12/2019 19:00	2/12/2019 20:00	1703.3
2/12/2019 20:00	2/12/2019 21:00	1666.6
2/12/2019 21:00	2/12/2019 22:00	1555.9
2/12/2019 22:00	2/12/2019 23:00	1470.9
2/12/2019 23:00	2/13/2019 0:00	1447.2
2/13/2019 0:00	2/13/2019 1:00	1418.8
2/13/2019 1:00	2/13/2019 2:00	1382.9
2/13/2019 2:00	2/13/2019 3:00	1380.7
2/13/2019 3:00	2/13/2019 4:00	1341.3
2/13/2019 4:00	2/13/2019 5:00	1323.4
2/13/2019 5:00	2/13/2019 6:00	1324.6
2/13/2019 6:00	2/13/2019 7:00	1383.3
2/13/2019 7:00	2/13/2019 8:00	1340.4
2/13/2019 8:00	2/13/2019 9:00	1390.4
2/13/2019 9:00	2/13/2019 10:00	1423.9
2/13/2019 10:00	2/13/2019 11:00	1422.9
2/13/2019 11:00	2/13/2019 12:00	1427.3
2/13/2019 12:00	2/13/2019 13:00	1454.4
2/13/2019 13:00	2/13/2019 14:00	1411.2
2/13/2019 14:00	2/13/2019 15:00	1371.2
2/13/2019 15:00	2/13/2019 16:00	1338.0
2/13/2019 16:00	2/13/2019 17:00	1333.4
2/13/2019 17:00	2/13/2019 18:00	1395.2

Start Time	End Time	ANL_MW
2/13/2019 18:00	2/13/2019 19:00	1468.9
2/13/2019 19:00	2/13/2019 20:00	1452.8
2/13/2019 20:00	2/13/2019 21:00	1412.9
2/13/2019 21:00	2/13/2019 22:00	1342.8
2/13/2019 22:00	2/13/2019 23:00	1242.5
2/13/2019 23:00	2/14/2019 0:00	1203.8
2/14/2019 0:00	2/14/2019 1:00	1201.5
2/14/2019 1:00	2/14/2019 2:00	1200.1
2/14/2019 2:00	2/14/2019 3:00	1207.9
2/14/2019 3:00	2/14/2019 4:00	1200.3
2/14/2019 4:00	2/14/2019 5:00	1215.5
2/14/2019 5:00	2/14/2019 6:00	1300.5
2/14/2019 6:00	2/14/2019 7:00	1399.7
2/14/2019 7:00	2/14/2019 8:00	1483.7
2/14/2019 8:00	2/14/2019 9:00	1508.0
2/14/2019 9:00	2/14/2019 10:00	1489.2
2/14/2019 10:00	2/14/2019 11:00	1365.3
2/14/2019 11:00	2/14/2019 12:00	1310.1
2/14/2019 12:00	2/14/2019 13:00	1286.5
2/14/2019 13:00	2/14/2019 14:00	1252.2
2/14/2019 14:00	2/14/2019 15:00	1196.1
2/14/2019 15:00	2/14/2019 16:00	1196.4
2/14/2019 16:00	2/14/2019 17:00	1243.6
2/14/2019 17:00	2/14/2019 18:00	1356.3
2/14/2019 18:00	2/14/2019 19:00	1478.9
2/14/2019 19:00	2/14/2019 20:00	1492.9
2/14/2019 20:00	2/14/2019 21:00	1446.4
2/14/2019 21:00	2/14/2019 22:00	1393.3
2/14/2019 22:00	2/14/2019 23:00	1360.5
2/14/2019 23:00	2/15/2019 0:00	1382.8
2/15/2019 0:00	2/15/2019 1:00	1396.2
2/15/2019 1:00	2/15/2019 2:00	1392.9
2/15/2019 2:00	2/15/2019 3:00	1345.4
2/15/2019 3:00	2/15/2019 4:00	1347.9
2/15/2019 4:00	2/15/2019 5:00	1378.4
2/15/2019 5:00	2/15/2019 6:00	1457.1
2/15/2019 6:00	2/15/2019 7:00	1619.1
2/15/2019 7:00	2/15/2019 8:00	1716.4
2/15/2019 8:00	2/15/2019 9:00	1698.9
2/15/2019 9:00	2/15/2019 10:00	1624.5
2/15/2019 10:00	2/15/2019 11:00	1535.7
2/15/2019 11:00	2/15/2019 12:00	1459.4
2/15/2019 12:00	2/15/2019 13:00	1415.4
2/15/2019 13:00	2/15/2019 14:00	1327.6
2/15/2019 14:00	2/15/2019 15:00	1255.6
2/15/2019 15:00	2/15/2019 16:00	1209.8
2/15/2019 16:00	2/15/2019 17:00	1165.0
2/15/2019 17:00	2/15/2019 18:00	1168.7
2/15/2019 18:00	2/15/2019 19:00	1204.9
2/15/2019 19:00	2/15/2019 20:00	1161.7
2/15/2019 20:00	2/15/2019 21:00	1126.2
2/15/2019 21:00	2/15/2019 22:00	1077.3
2/15/2019 22:00	2/15/2019 23:00	1030.2
2/15/2019 23:00	2/16/2019 0:00	1002.6
2/16/2019 0:00	2/16/2019 1:00	1029.5
2/16/2019 1:00	2/16/2019 2:00	966.8
2/16/2019 2:00	2/16/2019 3:00	925.0
2/16/2019 3:00	2/16/2019 4:00	864.1
2/16/2019 4:00	2/16/2019 5:00	826.8
2/16/2019 5:00	2/16/2019 6:00	792.8
2/16/2019 6:00	2/16/2019 7:00	822.1
2/16/2019 7:00	2/16/2019 8:00	882.9
2/16/2019 8:00	2/16/2019 9:00	1002.0
2/16/2019 9:00	2/16/2019 10:00	1094.1
2/16/2019 10:00	2/16/2019 11:00	1139.8
2/16/2019 11:00	2/16/2019 12:00	1200.0
2/16/2019 12:00	2/16/2019 13:00	1260.6
2/16/2019 13:00	2/16/2019 14:00	1236.6
2/16/2019 14:00	2/16/2019 15:00	1229.8
2/16/2019 15:00	2/16/2019 16:00	1235.1

Start Time	End Time	ANL_MW
2/16/2019 16:00	2/16/2019 17:00	1260.3
2/16/2019 17:00	2/16/2019 18:00	1298.4
2/16/2019 18:00	2/16/2019 19:00	1295.6
2/16/2019 19:00	2/16/2019 20:00	1234.5
2/16/2019 20:00	2/16/2019 21:00	1233.3
2/16/2019 21:00	2/16/2019 22:00	1191.7
2/16/2019 22:00	2/16/2019 23:00	1165.1
2/16/2019 23:00	2/17/2019 0:00	1132.4
2/17/2019 0:00	2/17/2019 1:00	1079.1
2/17/2019 1:00	2/17/2019 2:00	1066.0
2/17/2019 2:00	2/17/2019 3:00	1051.3
2/17/2019 3:00	2/17/2019 4:00	1023.3
2/17/2019 4:00	2/17/2019 5:00	1042.3
2/17/2019 5:00	2/17/2019 6:00	1089.1
2/17/2019 6:00	2/17/2019 7:00	1146.1
2/17/2019 7:00	2/17/2019 8:00	1199.6
2/17/2019 8:00	2/17/2019 9:00	1185.7
2/17/2019 9:00	2/17/2019 10:00	1290.2
2/17/2019 10:00	2/17/2019 11:00	1322.1
2/17/2019 11:00	2/17/2019 12:00	1284.1
2/17/2019 12:00	2/17/2019 13:00	1221.7
2/17/2019 13:00	2/17/2019 14:00	1200.8
2/17/2019 14:00	2/17/2019 15:00	1268.7
2/17/2019 15:00	2/17/2019 16:00	1311.7
2/17/2019 16:00	2/17/2019 17:00	1378.2
2/17/2019 17:00	2/17/2019 18:00	1509.0
2/17/2019 18:00	2/17/2019 19:00	1526.8
2/17/2019 19:00	2/17/2019 20:00	1481.7
2/17/2019 20:00	2/17/2019 21:00	1460.0
2/17/2019 21:00	2/17/2019 22:00	1442.9
2/17/2019 22:00	2/17/2019 23:00	1385.0
2/17/2019 23:00	2/18/2019 0:00	1381.2
2/18/2019 0:00	2/18/2019 1:00	1327.8
2/18/2019 1:00	2/18/2019 2:00	1353.7
2/18/2019 2:00	2/18/2019 3:00	1394.4
2/18/2019 3:00	2/18/2019 4:00	1419.0
2/18/2019 4:00	2/18/2019 5:00	1401.0
2/18/2019 5:00	2/18/2019 6:00	1446.5
2/18/2019 6:00	2/18/2019 7:00	1517.4
2/18/2019 7:00	2/18/2019 8:00	1582.4
2/18/2019 8:00	2/18/2019 9:00	1622.2
2/18/2019 9:00	2/18/2019 10:00	1669.4
2/18/2019 10:00	2/18/2019 11:00	1660.5
2/18/2019 11:00	2/18/2019 12:00	1658.2
2/18/2019 12:00	2/18/2019 13:00	1615.8
2/18/2019 13:00	2/18/2019 14:00	1544.4
2/18/2019 14:00	2/18/2019 15:00	1526.9
2/18/2019 15:00	2/18/2019 16:00	1542.8
2/18/2019 16:00	2/18/2019 17:00	1600.3
2/18/2019 17:00	2/18/2019 18:00	1619.9
2/18/2019 18:00	2/18/2019 19:00	1614.5
2/18/2019 19:00	2/18/2019 20:00	1556.3
2/18/2019 20:00	2/18/2019 21:00	1487.9
2/18/2019 21:00	2/18/2019 22:00	1416.8
2/18/2019 22:00	2/18/2019 23:00	1289.4
2/18/2019 23:00	2/19/2019 0:00	1260.6
2/19/2019 0:00	2/19/2019 1:00	1224.6
2/19/2019 1:00	2/19/2019 2:00	1185.4
2/19/2019 2:00	2/19/2019 3:00	1171.9
2/19/2019 3:00	2/19/2019 4:00	1189.0
2/19/2019 4:00	2/19/2019 5:00	1199.9
2/19/2019 5:00	2/19/2019 6:00	1280.7
2/19/2019 6:00	2/19/2019 7:00	1316.2
2/19/2019 7:00	2/19/2019 8:00	1364.0
2/19/2019 8:00	2/19/2019 9:00	1345.8
2/19/2019 9:00	2/19/2019 10:00	1300.7
2/19/2019 10:00	2/19/2019 11:00	1297.9
2/19/2019 11:00	2/19/2019 12:00	1291.2
2/19/2019 12:00	2/19/2019 13:00	1308.3
2/19/2019 13:00	2/19/2019 14:00	1246.0

Start Time	End Time	ANL_MW
2/19/2019 14:00	2/19/2019 15:00	1192.2
2/19/2019 15:00	2/19/2019 16:00	1186.0
2/19/2019 16:00	2/19/2019 17:00	1229.8
2/19/2019 17:00	2/19/2019 18:00	1330.8
2/19/2019 18:00	2/19/2019 19:00	1419.6
2/19/2019 19:00	2/19/2019 20:00	1365.2
2/19/2019 20:00	2/19/2019 21:00	1334.6
2/19/2019 21:00	2/19/2019 22:00	1271.9
2/19/2019 22:00	2/19/2019 23:00	1228.8
2/19/2019 23:00	2/20/2019 0:00	1260.5
2/20/2019 0:00	2/20/2019 1:00	1273.6
2/20/2019 1:00	2/20/2019 2:00	1277.6
2/20/2019 2:00	2/20/2019 3:00	1250.8
2/20/2019 3:00	2/20/2019 4:00	1260.6
2/20/2019 4:00	2/20/2019 5:00	1271.2
2/20/2019 5:00	2/20/2019 6:00	1352.8
2/20/2019 6:00	2/20/2019 7:00	1485.2
2/20/2019 7:00	2/20/2019 8:00	1446.9
2/20/2019 8:00	2/20/2019 9:00	1412.5
2/20/2019 9:00	2/20/2019 10:00	1342.1
2/20/2019 10:00	2/20/2019 11:00	1312.5
2/20/2019 11:00	2/20/2019 12:00	1339.8
2/20/2019 12:00	2/20/2019 13:00	1350.9
2/20/2019 13:00	2/20/2019 14:00	1280.9
2/20/2019 14:00	2/20/2019 15:00	1188.7
2/20/2019 15:00	2/20/2019 16:00	1173.1
2/20/2019 16:00	2/20/2019 17:00	1214.2
2/20/2019 17:00	2/20/2019 18:00	1356.6
2/20/2019 18:00	2/20/2019 19:00	1482.5
2/20/2019 19:00	2/20/2019 20:00	1501.6
2/20/2019 20:00	2/20/2019 21:00	1465.9
2/20/2019 21:00	2/20/2019 22:00	1428.8
2/20/2019 22:00	2/20/2019 23:00	1364.5
2/20/2019 23:00	2/21/2019 0:00	1359.4
2/21/2019 0:00	2/21/2019 1:00	1367.0
2/21/2019 1:00	2/21/2019 2:00	1375.6
2/21/2019 2:00	2/21/2019 3:00	1424.3
2/21/2019 3:00	2/21/2019 4:00	1465.7
2/21/2019 4:00	2/21/2019 5:00	1500.5
2/21/2019 5:00	2/21/2019 6:00	1540.5
2/21/2019 6:00	2/21/2019 7:00	1623.3
2/21/2019 7:00	2/21/2019 8:00	1687.0
2/21/2019 8:00	2/21/2019 9:00	1727.5
2/21/2019 9:00	2/21/2019 10:00	1717.1
2/21/2019 10:00	2/21/2019 11:00	1682.5
2/21/2019 11:00	2/21/2019 12:00	1639.8
2/21/2019 12:00	2/21/2019 13:00	1636.9
2/21/2019 13:00	2/21/2019 14:00	1617.0
2/21/2019 14:00	2/21/2019 15:00	1616.7
2/21/2019 15:00	2/21/2019 16:00	1657.6
2/21/2019 16:00	2/21/2019 17:00	1715.0
2/21/2019 17:00	2/21/2019 18:00	1758.0
2/21/2019 18:00	2/21/2019 19:00	1782.4
2/21/2019 19:00	2/21/2019 20:00	1707.4
2/21/2019 20:00	2/21/2019 21:00	1612.2
2/21/2019 21:00	2/21/2019 22:00	1489.4
2/21/2019 22:00	2/21/2019 23:00	1363.7
2/21/2019 23:00	2/22/2019 0:00	1301.7
2/22/2019 0:00	2/22/2019 1:00	1213.8
2/22/2019 1:00	2/22/2019 2:00	1169.8
2/22/2019 2:00	2/22/2019 3:00	1131.1
2/22/2019 3:00	2/22/2019 4:00	1114.2
2/22/2019 4:00	2/22/2019 5:00	1147.2
2/22/2019 5:00	2/22/2019 6:00	1227.1
2/22/2019 6:00	2/22/2019 7:00	1388.9
2/22/2019 7:00	2/22/2019 8:00	1536.5
2/22/2019 8:00	2/22/2019 9:00	1566.6
2/22/2019 9:00	2/22/2019 10:00	1507.0
2/22/2019 10:00	2/22/2019 11:00	1478.1
2/22/2019 11:00	2/22/2019 12:00	1422.3

Start Time	End Time	ANL_MW
2/22/2019 12:00	2/22/2019 13:00	1356.7
2/22/2019 13:00	2/22/2019 14:00	1331.1
2/22/2019 14:00	2/22/2019 15:00	1292.7
2/22/2019 15:00	2/22/2019 16:00	1267.4
2/22/2019 16:00	2/22/2019 17:00	1298.3
2/22/2019 17:00	2/22/2019 18:00	1376.9
2/22/2019 18:00	2/22/2019 19:00	1462.1
2/22/2019 19:00	2/22/2019 20:00	1407.0
2/22/2019 20:00	2/22/2019 21:00	1346.0
2/22/2019 21:00	2/22/2019 22:00	1273.6
2/22/2019 22:00	2/22/2019 23:00	1149.6
2/22/2019 23:00	2/23/2019 0:00	1145.8
2/23/2019 0:00	2/23/2019 1:00	1127.1
2/23/2019 1:00	2/23/2019 2:00	1147.0
2/23/2019 2:00	2/23/2019 3:00	1223.6
2/23/2019 3:00	2/23/2019 4:00	1290.4
2/23/2019 4:00	2/23/2019 5:00	1313.4
2/23/2019 5:00	2/23/2019 6:00	1359.9
2/23/2019 6:00	2/23/2019 7:00	1467.1
2/23/2019 7:00	2/23/2019 8:00	1569.8
2/23/2019 8:00	2/23/2019 9:00	1560.8
2/23/2019 9:00	2/23/2019 10:00	1506.8
2/23/2019 10:00	2/23/2019 11:00	1412.6
2/23/2019 11:00	2/23/2019 12:00	1337.7
2/23/2019 12:00	2/23/2019 13:00	1244.2
2/23/2019 13:00	2/23/2019 14:00	1171.0
2/23/2019 14:00	2/23/2019 15:00	1100.6
2/23/2019 15:00	2/23/2019 16:00	1103.2
2/23/2019 16:00	2/23/2019 17:00	1211.9
2/23/2019 17:00	2/23/2019 18:00	1349.5
2/23/2019 18:00	2/23/2019 19:00	1456.6
2/23/2019 19:00	2/23/2019 20:00	1471.5
2/23/2019 20:00	2/23/2019 21:00	1427.8
2/23/2019 21:00	2/23/2019 22:00	1382.4
2/23/2019 22:00	2/23/2019 23:00	1325.3
2/23/2019 23:00	2/24/2019 0:00	1264.1
2/24/2019 0:00	2/24/2019 1:00	1310.4
2/24/2019 1:00	2/24/2019 2:00	1345.5
2/24/2019 2:00	2/24/2019 3:00	1386.6
2/24/2019 3:00	2/24/2019 4:00	1410.1
2/24/2019 4:00	2/24/2019 5:00	1414.1
2/24/2019 5:00	2/24/2019 6:00	1436.0
2/24/2019 6:00	2/24/2019 7:00	1472.6
2/24/2019 7:00	2/24/2019 8:00	1510.2
2/24/2019 8:00	2/24/2019 9:00	1545.7
2/24/2019 9:00	2/24/2019 10:00	1565.6
2/24/2019 10:00	2/24/2019 11:00	1527.9
2/24/2019 11:00	2/24/2019 12:00	1494.9
2/24/2019 12:00	2/24/2019 13:00	1492.3
2/24/2019 13:00	2/24/2019 14:00	1438.6
2/24/2019 14:00	2/24/2019 15:00	1390.9
2/24/2019 15:00	2/24/2019 16:00	1389.0
2/24/2019 16:00	2/24/2019 17:00	1397.6
2/24/2019 17:00	2/24/2019 18:00	1388.2
2/24/2019 18:00	2/24/2019 19:00	1376.1
2/24/2019 19:00	2/24/2019 20:00	1296.2
2/24/2019 20:00	2/24/2019 21:00	1302.6
2/24/2019 21:00	2/24/2019 22:00	1280.2
2/24/2019 22:00	2/24/2019 23:00	1245.2
2/24/2019 23:00	2/25/2019 0:00	1199.0
2/25/2019 0:00	2/25/2019 1:00	1149.7
2/25/2019 1:00	2/25/2019 2:00	1079.5
2/25/2019 2:00	2/25/2019 3:00	1065.4
2/25/2019 3:00	2/25/2019 4:00	1041.5
2/25/2019 4:00	2/25/2019 5:00	1011.4
2/25/2019 5:00	2/25/2019 6:00	1034.9
2/25/2019 6:00	2/25/2019 7:00	1138.1
2/25/2019 7:00	2/25/2019 8:00	1162.3
2/25/2019 8:00	2/25/2019 9:00	1166.9
2/25/2019 9:00	2/25/2019 10:00	1134.4

Start Time	End Time	ANL_MW
2/25/2019 10:00	2/25/2019 11:00	1166.9
2/25/2019 11:00	2/25/2019 12:00	1162.9
2/25/2019 12:00	2/25/2019 13:00	1155.8
2/25/2019 13:00	2/25/2019 14:00	1140.3
2/25/2019 14:00	2/25/2019 15:00	1132.7
2/25/2019 15:00	2/25/2019 16:00	1159.5
2/25/2019 16:00	2/25/2019 17:00	1182.6
2/25/2019 17:00	2/25/2019 18:00	1226.1
2/25/2019 18:00	2/25/2019 19:00	1276.6
2/25/2019 19:00	2/25/2019 20:00	1265.7
2/25/2019 20:00	2/25/2019 21:00	1215.8
2/25/2019 21:00	2/25/2019 22:00	1165.1
2/25/2019 22:00	2/25/2019 23:00	1086.7
2/25/2019 23:00	2/26/2019 0:00	1068.9
2/26/2019 0:00	2/26/2019 1:00	1043.4
2/26/2019 1:00	2/26/2019 2:00	1028.7
2/26/2019 2:00	2/26/2019 3:00	1025.2
2/26/2019 3:00	2/26/2019 4:00	1043.4
2/26/2019 4:00	2/26/2019 5:00	1082.7
2/26/2019 5:00	2/26/2019 6:00	1173.4
2/26/2019 6:00	2/26/2019 7:00	1313.1
2/26/2019 7:00	2/26/2019 8:00	1401.2
2/26/2019 8:00	2/26/2019 9:00	1420.7
2/26/2019 9:00	2/26/2019 10:00	1448.4
2/26/2019 10:00	2/26/2019 11:00	1424.2
2/26/2019 11:00	2/26/2019 12:00	1350.8
2/26/2019 12:00	2/26/2019 13:00	1365.1
2/26/2019 13:00	2/26/2019 14:00	1345.9
2/26/2019 14:00	2/26/2019 15:00	1311.9
2/26/2019 15:00	2/26/2019 16:00	1334.8
2/26/2019 16:00	2/26/2019 17:00	1368.2
2/26/2019 17:00	2/26/2019 18:00	1448.2
2/26/2019 18:00	2/26/2019 19:00	1551.1
2/26/2019 19:00	2/26/2019 20:00	1552.6
2/26/2019 20:00	2/26/2019 21:00	1550.8
2/26/2019 21:00	2/26/2019 22:00	1513.4
2/26/2019 22:00	2/26/2019 23:00	1437.0
2/26/2019 23:00	2/27/2019 0:00	1421.8
2/27/2019 0:00	2/27/2019 1:00	1400.2
2/27/2019 1:00	2/27/2019 2:00	1372.6
2/27/2019 2:00	2/27/2019 3:00	1357.6
2/27/2019 3:00	2/27/2019 4:00	1357.3
2/27/2019 4:00	2/27/2019 5:00	1364.5
2/27/2019 5:00	2/27/2019 6:00	1424.5
2/27/2019 6:00	2/27/2019 7:00	1551.5
2/27/2019 7:00	2/27/2019 8:00	1599.9
2/27/2019 8:00	2/27/2019 9:00	1588.9
2/27/2019 9:00	2/27/2019 10:00	1535.6
2/27/2019 10:00	2/27/2019 11:00	1471.5
2/27/2019 11:00	2/27/2019 12:00	1410.8
2/27/2019 12:00	2/27/2019 13:00	1378.8
2/27/2019 13:00	2/27/2019 14:00	1321.6
2/27/2019 14:00	2/27/2019 15:00	1271.6
2/27/2019 15:00	2/27/2019 16:00	1241.0
2/27/2019 16:00	2/27/2019 17:00	1248.5
2/27/2019 17:00	2/27/2019 18:00	1360.1
2/27/2019 18:00	2/27/2019 19:00	1434.1
2/27/2019 19:00	2/27/2019 20:00	1434.7
2/27/2019 20:00	2/27/2019 21:00	1405.9
2/27/2019 21:00	2/27/2019 22:00	1323.9
2/27/2019 22:00	2/27/2019 23:00	1273.3
2/27/2019 23:00	2/28/2019 0:00	1312.5
2/28/2019 0:00	2/28/2019 1:00	1319.8
2/28/2019 1:00	2/28/2019 2:00	1322.2
2/28/2019 2:00	2/28/2019 3:00	1316.0
2/28/2019 3:00	2/28/2019 4:00	1335.0
2/28/2019 4:00	2/28/2019 5:00	1353.4
2/28/2019 5:00	2/28/2019 6:00	1411.3
2/28/2019 6:00	2/28/2019 7:00	1567.4
2/28/2019 7:00	2/28/2019 8:00	1631.4

Start Time	End Time	ANL_MW
2/28/2019 8:00	2/28/2019 9:00	1653.5
2/28/2019 9:00	2/28/2019 10:00	1603.4
2/28/2019 10:00	2/28/2019 11:00	1527.9
2/28/2019 11:00	2/28/2019 12:00	1469.9
2/28/2019 12:00	2/28/2019 13:00	1420.1
2/28/2019 13:00	2/28/2019 14:00	1309.7
2/28/2019 14:00	2/28/2019 15:00	1202.0
2/28/2019 15:00	2/28/2019 16:00	1174.5
2/28/2019 16:00	2/28/2019 17:00	1188.3
2/28/2019 17:00	2/28/2019 18:00	1298.0
2/28/2019 18:00	2/28/2019 19:00	1441.5
2/28/2019 19:00	2/28/2019 20:00	1445.5
2/28/2019 20:00	2/28/2019 21:00	1389.4
2/28/2019 21:00	2/28/2019 22:00	1334.0
2/28/2019 22:00	2/28/2019 23:00	1307.1
2/28/2019 23:00	3/1/2019 0:00	1278.1
3/1/2019 0:00	3/1/2019 1:00	1268.1
3/1/2019 1:00	3/1/2019 2:00	1252.4
3/1/2019 2:00	3/1/2019 3:00	1262.7
3/1/2019 3:00	3/1/2019 4:00	1249.4
3/1/2019 4:00	3/1/2019 5:00	1289.5
3/1/2019 5:00	3/1/2019 6:00	1341.1
3/1/2019 6:00	3/1/2019 7:00	1485.0
3/1/2019 7:00	3/1/2019 8:00	1504.0
3/1/2019 8:00	3/1/2019 9:00	1516.2
3/1/2019 9:00	3/1/2019 10:00	1481.3
3/1/2019 10:00	3/1/2019 11:00	1420.6
3/1/2019 11:00	3/1/2019 12:00	1374.4
3/1/2019 12:00	3/1/2019 13:00	1359.8
3/1/2019 13:00	3/1/2019 14:00	1284.2
3/1/2019 14:00	3/1/2019 15:00	1165.4
3/1/2019 15:00	3/1/2019 16:00	1149.2
3/1/2019 16:00	3/1/2019 17:00	1175.2
3/1/2019 17:00	3/1/2019 18:00	1271.6
3/1/2019 18:00	3/1/2019 19:00	1369.3
3/1/2019 19:00	3/1/2019 20:00	1329.3
3/1/2019 20:00	3/1/2019 21:00	1279.7
3/1/2019 21:00	3/1/2019 22:00	1297.2
3/1/2019 22:00	3/1/2019 23:00	1221.8
3/1/2019 23:00	3/2/2019 0:00	1252.5
3/2/2019 0:00	3/2/2019 1:00	1248.8
3/2/2019 1:00	3/2/2019 2:00	1192.1
3/2/2019 2:00	3/2/2019 3:00	1232.6
3/2/2019 3:00	3/2/2019 4:00	1284.6
3/2/2019 4:00	3/2/2019 5:00	1300.7
3/2/2019 5:00	3/2/2019 6:00	1334.9
3/2/2019 6:00	3/2/2019 7:00	1411.6
3/2/2019 7:00	3/2/2019 8:00	1513.2
3/2/2019 8:00	3/2/2019 9:00	1597.6
3/2/2019 9:00	3/2/2019 10:00	1597.4
3/2/2019 10:00	3/2/2019 11:00	1555.2
3/2/2019 11:00	3/2/2019 12:00	1510.4
3/2/2019 12:00	3/2/2019 13:00	1480.4
3/2/2019 13:00	3/2/2019 14:00	1439.8
3/2/2019 14:00	3/2/2019 15:00	1408.7
3/2/2019 15:00	3/2/2019 16:00	1400.6
3/2/2019 16:00	3/2/2019 17:00	1392.3
3/2/2019 17:00	3/2/2019 18:00	1372.8
3/2/2019 18:00	3/2/2019 19:00	1396.0
3/2/2019 19:00	3/2/2019 20:00	1348.2
3/2/2019 20:00	3/2/2019 21:00	1341.9
3/2/2019 21:00	3/2/2019 22:00	1353.2
3/2/2019 22:00	3/2/2019 23:00	1281.4
3/2/2019 23:00	3/3/2019 0:00	1199.5
3/3/2019 0:00	3/3/2019 1:00	1136.9
3/3/2019 1:00	3/3/2019 2:00	1105.8
3/3/2019 2:00	3/3/2019 3:00	1121.1
3/3/2019 3:00	3/3/2019 4:00	1165.7
3/3/2019 4:00	3/3/2019 5:00	1191.7
3/3/2019 5:00	3/3/2019 6:00	1251.4

Start Time	End Time	ANL_MW
3/3/2019 6:00	3/3/2019 7:00	1331.5
3/3/2019 7:00	3/3/2019 8:00	1343.3
3/3/2019 8:00	3/3/2019 9:00	1376.3
3/3/2019 9:00	3/3/2019 10:00	1386.6
3/3/2019 10:00	3/3/2019 11:00	1292.8
3/3/2019 11:00	3/3/2019 12:00	1236.8
3/3/2019 12:00	3/3/2019 13:00	1214.1
3/3/2019 13:00	3/3/2019 14:00	1183.7
3/3/2019 14:00	3/3/2019 15:00	1210.0
3/3/2019 15:00	3/3/2019 16:00	1259.9
3/3/2019 16:00	3/3/2019 17:00	1346.2
3/3/2019 17:00	3/3/2019 18:00	1432.9
3/3/2019 18:00	3/3/2019 19:00	1539.8
3/3/2019 19:00	3/3/2019 20:00	1590.4
3/3/2019 20:00	3/3/2019 21:00	1572.0
3/3/2019 21:00	3/3/2019 22:00	1514.5
3/3/2019 22:00	3/3/2019 23:00	1413.5
3/3/2019 23:00	3/4/2019 0:00	1328.3
3/4/2019 0:00	3/4/2019 1:00	1290.8
3/4/2019 1:00	3/4/2019 2:00	1303.3
3/4/2019 2:00	3/4/2019 3:00	1254.0
3/4/2019 3:00	3/4/2019 4:00	1225.2
3/4/2019 4:00	3/4/2019 5:00	1238.1
3/4/2019 5:00	3/4/2019 6:00	1244.2
3/4/2019 6:00	3/4/2019 7:00	1325.1
3/4/2019 7:00	3/4/2019 8:00	1360.5
3/4/2019 8:00	3/4/2019 9:00	1338.7
3/4/2019 9:00	3/4/2019 10:00	1383.7
3/4/2019 10:00	3/4/2019 11:00	1398.9
3/4/2019 11:00	3/4/2019 12:00	1394.9
3/4/2019 12:00	3/4/2019 13:00	1360.3
3/4/2019 13:00	3/4/2019 14:00	1321.7
3/4/2019 14:00	3/4/2019 15:00	1381.9
3/4/2019 15:00	3/4/2019 16:00	1435.5
3/4/2019 16:00	3/4/2019 17:00	1462.1
3/4/2019 17:00	3/4/2019 18:00	1494.5
3/4/2019 18:00	3/4/2019 19:00	1529.1
3/4/2019 19:00	3/4/2019 20:00	1569.0
3/4/2019 20:00	3/4/2019 21:00	1495.0
3/4/2019 21:00	3/4/2019 22:00	1440.3
3/4/2019 22:00	3/4/2019 23:00	1336.6
3/4/2019 23:00	3/5/2019 0:00	1320.1
3/5/2019 0:00	3/5/2019 1:00	1293.7
3/5/2019 1:00	3/5/2019 2:00	1257.4
3/5/2019 2:00	3/5/2019 3:00	1245.8
3/5/2019 3:00	3/5/2019 4:00	1279.8
3/5/2019 4:00	3/5/2019 5:00	1297.0
3/5/2019 5:00	3/5/2019 6:00	1281.5
3/5/2019 6:00	3/5/2019 7:00	1378.5
3/5/2019 7:00	3/5/2019 8:00	1443.0
3/5/2019 8:00	3/5/2019 9:00	1404.3
3/5/2019 9:00	3/5/2019 10:00	1381.4
3/5/2019 10:00	3/5/2019 11:00	1389.8
3/5/2019 11:00	3/5/2019 12:00	1388.9
3/5/2019 12:00	3/5/2019 13:00	1386.7
3/5/2019 13:00	3/5/2019 14:00	1366.9
3/5/2019 14:00	3/5/2019 15:00	1346.6
3/5/2019 15:00	3/5/2019 16:00	1361.7
3/5/2019 16:00	3/5/2019 17:00	1417.1
3/5/2019 17:00	3/5/2019 18:00	1483.7
3/5/2019 18:00	3/5/2019 19:00	1540.7
3/5/2019 19:00	3/5/2019 20:00	1558.6
3/5/2019 20:00	3/5/2019 21:00	1522.9
3/5/2019 21:00	3/5/2019 22:00	1470.7
3/5/2019 22:00	3/5/2019 23:00	1414.7
3/5/2019 23:00	3/6/2019 0:00	1408.7
3/6/2019 0:00	3/6/2019 1:00	1411.0
3/6/2019 1:00	3/6/2019 2:00	1434.6
3/6/2019 2:00	3/6/2019 3:00	1424.2
3/6/2019 3:00	3/6/2019 4:00	1406.0

Start Time	End Time	ANL_MW
3/6/2019 4:00	3/6/2019 5:00	1436.1
3/6/2019 5:00	3/6/2019 6:00	1515.7
3/6/2019 6:00	3/6/2019 7:00	1652.1
3/6/2019 7:00	3/6/2019 8:00	1718.6
3/6/2019 8:00	3/6/2019 9:00	1686.5
3/6/2019 9:00	3/6/2019 10:00	1612.1
3/6/2019 10:00	3/6/2019 11:00	1540.0
3/6/2019 11:00	3/6/2019 12:00	1500.0
3/6/2019 12:00	3/6/2019 13:00	1466.6
3/6/2019 13:00	3/6/2019 14:00	1414.1
3/6/2019 14:00	3/6/2019 15:00	1388.7
3/6/2019 15:00	3/6/2019 16:00	1396.2
3/6/2019 16:00	3/6/2019 17:00	1433.0
3/6/2019 17:00	3/6/2019 18:00	1459.2
3/6/2019 18:00	3/6/2019 19:00	1534.6
3/6/2019 19:00	3/6/2019 20:00	1540.3
3/6/2019 20:00	3/6/2019 21:00	1507.9
3/6/2019 21:00	3/6/2019 22:00	1452.6
3/6/2019 22:00	3/6/2019 23:00	1345.4
3/6/2019 23:00	3/7/2019 0:00	1274.6
3/7/2019 0:00	3/7/2019 1:00	1248.2
3/7/2019 1:00	3/7/2019 2:00	1241.0
3/7/2019 2:00	3/7/2019 3:00	1232.8
3/7/2019 3:00	3/7/2019 4:00	1239.7
3/7/2019 4:00	3/7/2019 5:00	1247.0
3/7/2019 5:00	3/7/2019 6:00	1314.7
3/7/2019 6:00	3/7/2019 7:00	1483.3
3/7/2019 7:00	3/7/2019 8:00	1581.6
3/7/2019 8:00	3/7/2019 9:00	1587.4
3/7/2019 9:00	3/7/2019 10:00	1479.7
3/7/2019 10:00	3/7/2019 11:00	1385.3
3/7/2019 11:00	3/7/2019 12:00	1342.8
3/7/2019 12:00	3/7/2019 13:00	1375.1
3/7/2019 13:00	3/7/2019 14:00	1352.0
3/7/2019 14:00	3/7/2019 15:00	1318.4
3/7/2019 15:00	3/7/2019 16:00	1323.6
3/7/2019 16:00	3/7/2019 17:00	1408.0
3/7/2019 17:00	3/7/2019 18:00	1519.4
3/7/2019 18:00	3/7/2019 19:00	1600.9
3/7/2019 19:00	3/7/2019 20:00	1615.4
3/7/2019 20:00	3/7/2019 21:00	1556.3
3/7/2019 21:00	3/7/2019 22:00	1498.3
3/7/2019 22:00	3/7/2019 23:00	1411.8
3/7/2019 23:00	3/8/2019 0:00	1392.4
3/8/2019 0:00	3/8/2019 1:00	1387.2
3/8/2019 1:00	3/8/2019 2:00	1332.6
3/8/2019 2:00	3/8/2019 3:00	1305.9
3/8/2019 3:00	3/8/2019 4:00	1325.9
3/8/2019 4:00	3/8/2019 5:00	1367.8
3/8/2019 5:00	3/8/2019 6:00	1455.0
3/8/2019 6:00	3/8/2019 7:00	1563.0
3/8/2019 7:00	3/8/2019 8:00	1578.2
3/8/2019 8:00	3/8/2019 9:00	1602.5
3/8/2019 9:00	3/8/2019 10:00	1515.8
3/8/2019 10:00	3/8/2019 11:00	1375.4
3/8/2019 11:00	3/8/2019 12:00	1311.2
3/8/2019 12:00	3/8/2019 13:00	1250.0
3/8/2019 13:00	3/8/2019 14:00	1190.9
3/8/2019 14:00	3/8/2019 15:00	1145.2
3/8/2019 15:00	3/8/2019 16:00	1119.0
3/8/2019 16:00	3/8/2019 17:00	1145.4
3/8/2019 17:00	3/8/2019 18:00	1258.1
3/8/2019 18:00	3/8/2019 19:00	1401.9
3/8/2019 19:00	3/8/2019 20:00	1325.8
3/8/2019 20:00	3/8/2019 21:00	1237.8
3/8/2019 21:00	3/8/2019 22:00	1205.7
3/8/2019 22:00	3/8/2019 23:00	1140.2
3/8/2019 23:00	3/9/2019 0:00	1153.4
3/9/2019 0:00	3/9/2019 1:00	1183.8
3/9/2019 1:00	3/9/2019 2:00	1178.9

Start Time	End Time	ANL_MW
3/9/2019 2:00	3/9/2019 3:00	1174.3
3/9/2019 3:00	3/9/2019 4:00	1149.0
3/9/2019 4:00	3/9/2019 5:00	1152.9
3/9/2019 5:00	3/9/2019 6:00	1168.5
3/9/2019 6:00	3/9/2019 7:00	1228.9
3/9/2019 7:00	3/9/2019 8:00	1299.7
3/9/2019 8:00	3/9/2019 9:00	1349.2
3/9/2019 9:00	3/9/2019 10:00	1328.7
3/9/2019 10:00	3/9/2019 11:00	1246.0
3/9/2019 11:00	3/9/2019 12:00	1165.0
3/9/2019 12:00	3/9/2019 13:00	1093.0
3/9/2019 13:00	3/9/2019 14:00	991.7
3/9/2019 14:00	3/9/2019 15:00	873.3
3/9/2019 15:00	3/9/2019 16:00	843.4
3/9/2019 16:00	3/9/2019 17:00	894.0
3/9/2019 17:00	3/9/2019 18:00	1015.8
3/9/2019 18:00	3/9/2019 19:00	1160.1
3/9/2019 19:00	3/9/2019 20:00	1277.6
3/9/2019 20:00	3/9/2019 21:00	1341.2
3/9/2019 21:00	3/9/2019 22:00	1300.9
3/9/2019 22:00	3/9/2019 23:00	1216.0
3/9/2019 23:00	3/10/2019 0:00	1149.8
3/10/2019 0:00	3/10/2019 1:00	1102.0
3/10/2019 1:00	3/10/2019 1:59	1129.7
3/10/2019 1:59	3/10/2019 4:00	1174.2
3/10/2019 4:00	3/10/2019 5:00	1196.9
3/10/2019 5:00	3/10/2019 6:00	1277.1
3/10/2019 6:00	3/10/2019 7:00	1383.4
3/10/2019 7:00	3/10/2019 8:00	1443.7
3/10/2019 8:00	3/10/2019 9:00	1523.5
3/10/2019 9:00	3/10/2019 10:00	1570.2
3/10/2019 10:00	3/10/2019 11:00	1535.5
3/10/2019 11:00	3/10/2019 12:00	1488.7
3/10/2019 12:00	3/10/2019 13:00	1443.9
3/10/2019 13:00	3/10/2019 14:00	1362.4
3/10/2019 14:00	3/10/2019 15:00	1311.6
3/10/2019 15:00	3/10/2019 16:00	1281.9
3/10/2019 16:00	3/10/2019 17:00	1276.8
3/10/2019 17:00	3/10/2019 18:00	1264.9
3/10/2019 18:00	3/10/2019 19:00	1246.8
3/10/2019 19:00	3/10/2019 20:00	1269.0
3/10/2019 20:00	3/10/2019 21:00	1174.8
3/10/2019 21:00	3/10/2019 22:00	1066.7
3/10/2019 22:00	3/10/2019 23:00	998.3
3/10/2019 23:00	3/11/2019 0:00	932.5
3/11/2019 0:00	3/11/2019 1:00	999.5
3/11/2019 1:00	3/11/2019 2:00	986.3
3/11/2019 2:00	3/11/2019 3:00	970.7
3/11/2019 3:00	3/11/2019 4:00	964.4
3/11/2019 4:00	3/11/2019 5:00	939.9
3/11/2019 5:00	3/11/2019 6:00	998.3
3/11/2019 6:00	3/11/2019 7:00	1033.2
3/11/2019 7:00	3/11/2019 8:00	1070.2
3/11/2019 8:00	3/11/2019 9:00	1136.9
3/11/2019 9:00	3/11/2019 10:00	1140.8
3/11/2019 10:00	3/11/2019 11:00	1158.8
3/11/2019 11:00	3/11/2019 12:00	1219.9
3/11/2019 12:00	3/11/2019 13:00	1205.7
3/11/2019 13:00	3/11/2019 14:00	1176.8
3/11/2019 14:00	3/11/2019 15:00	1111.1
3/11/2019 15:00	3/11/2019 16:00	1113.3
3/11/2019 16:00	3/11/2019 17:00	1197.2
3/11/2019 17:00	3/11/2019 18:00	1153.8
3/11/2019 18:00	3/11/2019 19:00	1149.1
3/11/2019 19:00	3/11/2019 20:00	1146.2
3/11/2019 20:00	3/11/2019 21:00	1131.2
3/11/2019 21:00	3/11/2019 22:00	1076.7
3/11/2019 22:00	3/11/2019 23:00	1062.2
3/11/2019 23:00	3/12/2019 0:00	1071.1
3/12/2019 0:00	3/12/2019 1:00	1056.3

Start Time	End Time	ANL_MW
3/12/2019 1:00	3/12/2019 2:00	1010.4
3/12/2019 2:00	3/12/2019 3:00	1010.6
3/12/2019 3:00	3/12/2019 4:00	1036.5
3/12/2019 4:00	3/12/2019 5:00	1098.5
3/12/2019 5:00	3/12/2019 6:00	1178.8
3/12/2019 6:00	3/12/2019 7:00	1211.5
3/12/2019 7:00	3/12/2019 8:00	1309.1
3/12/2019 8:00	3/12/2019 9:00	1344.4
3/12/2019 9:00	3/12/2019 10:00	1307.2
3/12/2019 10:00	3/12/2019 11:00	1261.2
3/12/2019 11:00	3/12/2019 12:00	1270.5
3/12/2019 12:00	3/12/2019 13:00	1271.4
3/12/2019 13:00	3/12/2019 14:00	1256.4
3/12/2019 14:00	3/12/2019 15:00	1220.8
3/12/2019 15:00	3/12/2019 16:00	1217.7
3/12/2019 16:00	3/12/2019 17:00	1260.3
3/12/2019 17:00	3/12/2019 18:00	1302.5
3/12/2019 18:00	3/12/2019 19:00	1324.8
3/12/2019 19:00	3/12/2019 20:00	1376.6
3/12/2019 20:00	3/12/2019 21:00	1384.5
3/12/2019 21:00	3/12/2019 22:00	1329.2
3/12/2019 22:00	3/12/2019 23:00	1221.9
3/12/2019 23:00	3/13/2019 0:00	1187.6
3/13/2019 0:00	3/13/2019 1:00	1191.3
3/13/2019 1:00	3/13/2019 2:00	1182.1
3/13/2019 2:00	3/13/2019 3:00	1228.0
3/13/2019 3:00	3/13/2019 4:00	1207.0
3/13/2019 4:00	3/13/2019 5:00	1163.0
3/13/2019 5:00	3/13/2019 6:00	1240.9
3/13/2019 6:00	3/13/2019 7:00	1337.5
3/13/2019 7:00	3/13/2019 8:00	1435.3
3/13/2019 8:00	3/13/2019 9:00	1460.6
3/13/2019 9:00	3/13/2019 10:00	1435.5
3/13/2019 10:00	3/13/2019 11:00	1392.7
3/13/2019 11:00	3/13/2019 12:00	1362.6
3/13/2019 12:00	3/13/2019 13:00	1332.5
3/13/2019 13:00	3/13/2019 14:00	1279.3
3/13/2019 14:00	3/13/2019 15:00	1225.0
3/13/2019 15:00	3/13/2019 16:00	1213.4
3/13/2019 16:00	3/13/2019 17:00	1230.2
3/13/2019 17:00	3/13/2019 18:00	1256.0
3/13/2019 18:00	3/13/2019 19:00	1244.8
3/13/2019 19:00	3/13/2019 20:00	1312.5
3/13/2019 20:00	3/13/2019 21:00	1345.9
3/13/2019 21:00	3/13/2019 22:00	1341.2
3/13/2019 22:00	3/13/2019 23:00	1269.1
3/13/2019 23:00	3/14/2019 0:00	1242.3
3/14/2019 0:00	3/14/2019 1:00	1269.6
3/14/2019 1:00	3/14/2019 2:00	1291.0
3/14/2019 2:00	3/14/2019 3:00	1271.7
3/14/2019 3:00	3/14/2019 4:00	1246.4
3/14/2019 4:00	3/14/2019 5:00	1247.5
3/14/2019 5:00	3/14/2019 6:00	1316.4
3/14/2019 6:00	3/14/2019 7:00	1400.1
3/14/2019 7:00	3/14/2019 8:00	1483.3
3/14/2019 8:00	3/14/2019 9:00	1482.1
3/14/2019 9:00	3/14/2019 10:00	1409.6
3/14/2019 10:00	3/14/2019 11:00	1365.8
3/14/2019 11:00	3/14/2019 12:00	1394.3
3/14/2019 12:00	3/14/2019 13:00	1363.5
3/14/2019 13:00	3/14/2019 14:00	1319.7
3/14/2019 14:00	3/14/2019 15:00	1271.4
3/14/2019 15:00	3/14/2019 16:00	1241.7
3/14/2019 16:00	3/14/2019 17:00	1221.7
3/14/2019 17:00	3/14/2019 18:00	1185.7
3/14/2019 18:00	3/14/2019 19:00	1185.7
3/14/2019 19:00	3/14/2019 20:00	1215.4
3/14/2019 20:00	3/14/2019 21:00	1207.1
3/14/2019 21:00	3/14/2019 22:00	1142.7
3/14/2019 22:00	3/14/2019 23:00	1106.2

Start Time	End Time	ANL_MW
3/14/2019 23:00	3/15/2019 0:00	1158.7
3/15/2019 0:00	3/15/2019 1:00	1189.4
3/15/2019 1:00	3/15/2019 2:00	1165.6
3/15/2019 2:00	3/15/2019 3:00	1084.5
3/15/2019 3:00	3/15/2019 4:00	1107.8
3/15/2019 4:00	3/15/2019 5:00	1070.5
3/15/2019 5:00	3/15/2019 6:00	1067.8
3/15/2019 6:00	3/15/2019 7:00	1145.0
3/15/2019 7:00	3/15/2019 8:00	1236.5
3/15/2019 8:00	3/15/2019 9:00	1225.0
3/15/2019 9:00	3/15/2019 10:00	1194.4
3/15/2019 10:00	3/15/2019 11:00	1122.4
3/15/2019 11:00	3/15/2019 12:00	1014.5
3/15/2019 12:00	3/15/2019 13:00	952.7
3/15/2019 13:00	3/15/2019 14:00	916.3
3/15/2019 14:00	3/15/2019 15:00	890.3
3/15/2019 15:00	3/15/2019 16:00	893.5
3/15/2019 16:00	3/15/2019 17:00	939.5
3/15/2019 17:00	3/15/2019 18:00	974.2
3/15/2019 18:00	3/15/2019 19:00	953.8
3/15/2019 19:00	3/15/2019 20:00	950.8
3/15/2019 20:00	3/15/2019 21:00	919.8
3/15/2019 21:00	3/15/2019 22:00	861.7
3/15/2019 22:00	3/15/2019 23:00	797.3
3/15/2019 23:00	3/16/2019 0:00	771.9
3/16/2019 0:00	3/16/2019 1:00	759.8
3/16/2019 1:00	3/16/2019 2:00	752.5
3/16/2019 2:00	3/16/2019 3:00	780.8
3/16/2019 3:00	3/16/2019 4:00	820.2
3/16/2019 4:00	3/16/2019 5:00	820.5
3/16/2019 5:00	3/16/2019 6:00	826.1
3/16/2019 6:00	3/16/2019 7:00	843.4
3/16/2019 7:00	3/16/2019 8:00	869.3
3/16/2019 8:00	3/16/2019 9:00	983.7
3/16/2019 9:00	3/16/2019 10:00	1060.9
3/16/2019 10:00	3/16/2019 11:00	1110.7
3/16/2019 11:00	3/16/2019 12:00	1161.3
3/16/2019 12:00	3/16/2019 13:00	1063.5
3/16/2019 13:00	3/16/2019 14:00	985.7
3/16/2019 14:00	3/16/2019 15:00	940.9
3/16/2019 15:00	3/16/2019 16:00	872.3
3/16/2019 16:00	3/16/2019 17:00	932.3
3/16/2019 17:00	3/16/2019 18:00	957.7
3/16/2019 18:00	3/16/2019 19:00	932.0
3/16/2019 19:00	3/16/2019 20:00	977.8
3/16/2019 20:00	3/16/2019 21:00	1022.2
3/16/2019 21:00	3/16/2019 22:00	963.6
3/16/2019 22:00	3/16/2019 23:00	915.6
3/16/2019 23:00	3/17/2019 0:00	828.4
3/17/2019 0:00	3/17/2019 1:00	742.7
3/17/2019 1:00	3/17/2019 2:00	762.6
3/17/2019 2:00	3/17/2019 3:00	769.0
3/17/2019 3:00	3/17/2019 4:00	761.3
3/17/2019 4:00	3/17/2019 5:00	813.4
3/17/2019 5:00	3/17/2019 6:00	861.6
3/17/2019 6:00	3/17/2019 7:00	990.4
3/17/2019 7:00	3/17/2019 8:00	1071.1
3/17/2019 8:00	3/17/2019 9:00	1128.1
3/17/2019 9:00	3/17/2019 10:00	1057.0
3/17/2019 10:00	3/17/2019 11:00	1059.7
3/17/2019 11:00	3/17/2019 12:00	1075.7
3/17/2019 12:00	3/17/2019 13:00	1091.7
3/17/2019 13:00	3/17/2019 14:00	1064.4
3/17/2019 14:00	3/17/2019 15:00	1037.2
3/17/2019 15:00	3/17/2019 16:00	1036.3
3/17/2019 16:00	3/17/2019 17:00	1070.9
3/17/2019 17:00	3/17/2019 18:00	1093.0
3/17/2019 18:00	3/17/2019 19:00	1122.9
3/17/2019 19:00	3/17/2019 20:00	1260.4
3/17/2019 20:00	3/17/2019 21:00	1325.1

Start Time	End Time	ANL_MW
3/17/2019 21:00	3/17/2019 22:00	1316.7
3/17/2019 22:00	3/17/2019 23:00	1268.3
3/17/2019 23:00	3/18/2019 0:00	1196.6
3/18/2019 0:00	3/18/2019 1:00	1124.0
3/18/2019 1:00	3/18/2019 2:00	1096.9
3/18/2019 2:00	3/18/2019 3:00	1133.8
3/18/2019 3:00	3/18/2019 4:00	1195.6
3/18/2019 4:00	3/18/2019 5:00	1182.4
3/18/2019 5:00	3/18/2019 6:00	1236.1
3/18/2019 6:00	3/18/2019 7:00	1303.3
3/18/2019 7:00	3/18/2019 8:00	1358.3
3/18/2019 8:00	3/18/2019 9:00	1404.5
3/18/2019 9:00	3/18/2019 10:00	1376.9
3/18/2019 10:00	3/18/2019 11:00	1252.2
3/18/2019 11:00	3/18/2019 12:00	1224.6
3/18/2019 12:00	3/18/2019 13:00	1174.4
3/18/2019 13:00	3/18/2019 14:00	1116.4
3/18/2019 14:00	3/18/2019 15:00	1049.8
3/18/2019 15:00	3/18/2019 16:00	1063.0
3/18/2019 16:00	3/18/2019 17:00	1111.8
3/18/2019 17:00	3/18/2019 18:00	1129.8
3/18/2019 18:00	3/18/2019 19:00	1152.5
3/18/2019 19:00	3/18/2019 20:00	1288.4
3/18/2019 20:00	3/18/2019 21:00	1372.0
3/18/2019 21:00	3/18/2019 22:00	1335.2
3/18/2019 22:00	3/18/2019 23:00	1255.0
3/18/2019 23:00	3/19/2019 0:00	1228.1
3/19/2019 0:00	3/19/2019 1:00	1239.3
3/19/2019 1:00	3/19/2019 2:00	1264.1
3/19/2019 2:00	3/19/2019 3:00	1261.1
3/19/2019 3:00	3/19/2019 4:00	1269.1
3/19/2019 4:00	3/19/2019 5:00	1287.4
3/19/2019 5:00	3/19/2019 6:00	1340.5
3/19/2019 6:00	3/19/2019 7:00	1423.9
3/19/2019 7:00	3/19/2019 8:00	1519.2
3/19/2019 8:00	3/19/2019 9:00	1552.5
3/19/2019 9:00	3/19/2019 10:00	1521.3
3/19/2019 10:00	3/19/2019 11:00	1454.7
3/19/2019 11:00	3/19/2019 12:00	1395.5
3/19/2019 12:00	3/19/2019 13:00	1361.4
3/19/2019 13:00	3/19/2019 14:00	1298.3
3/19/2019 14:00	3/19/2019 15:00	1256.9
3/19/2019 15:00	3/19/2019 16:00	1237.6
3/19/2019 16:00	3/19/2019 17:00	1249.1
3/19/2019 17:00	3/19/2019 18:00	1273.4
3/19/2019 18:00	3/19/2019 19:00	1277.6
3/19/2019 19:00	3/19/2019 20:00	1367.0
3/19/2019 20:00	3/19/2019 21:00	1431.0
3/19/2019 21:00	3/19/2019 22:00	1407.1
3/19/2019 22:00	3/19/2019 23:00	1331.4
3/19/2019 23:00	3/20/2019 0:00	1362.6
3/20/2019 0:00	3/20/2019 1:00	1314.1
3/20/2019 1:00	3/20/2019 2:00	1370.5
3/20/2019 2:00	3/20/2019 3:00	1377.6
3/20/2019 3:00	3/20/2019 4:00	1371.7
3/20/2019 4:00	3/20/2019 5:00	1342.4
3/20/2019 5:00	3/20/2019 6:00	1384.7
3/20/2019 6:00	3/20/2019 7:00	1477.7
3/20/2019 7:00	3/20/2019 8:00	1535.0
3/20/2019 8:00	3/20/2019 9:00	1542.2
3/20/2019 9:00	3/20/2019 10:00	1489.7
3/20/2019 10:00	3/20/2019 11:00	1405.0
3/20/2019 11:00	3/20/2019 12:00	1328.2
3/20/2019 12:00	3/20/2019 13:00	1348.4
3/20/2019 13:00	3/20/2019 14:00	1304.6
3/20/2019 14:00	3/20/2019 15:00	1261.1
3/20/2019 15:00	3/20/2019 16:00	1206.6
3/20/2019 16:00	3/20/2019 17:00	1194.2
3/20/2019 17:00	3/20/2019 18:00	1222.0
3/20/2019 18:00	3/20/2019 19:00	1233.1

Start Time	End Time	ANL_MW
3/20/2019 19:00	3/20/2019 20:00	1289.0
3/20/2019 20:00	3/20/2019 21:00	1295.5
3/20/2019 21:00	3/20/2019 22:00	1249.9
3/20/2019 22:00	3/20/2019 23:00	1204.3
3/20/2019 23:00	3/21/2019 0:00	1195.4
3/21/2019 0:00	3/21/2019 1:00	1184.9
3/21/2019 1:00	3/21/2019 2:00	1144.2
3/21/2019 2:00	3/21/2019 3:00	1119.6
3/21/2019 3:00	3/21/2019 4:00	1129.4
3/21/2019 4:00	3/21/2019 5:00	1141.4
3/21/2019 5:00	3/21/2019 6:00	1185.8
3/21/2019 6:00	3/21/2019 7:00	1342.0
3/21/2019 7:00	3/21/2019 8:00	1454.0
3/21/2019 8:00	3/21/2019 9:00	1475.6
3/21/2019 9:00	3/21/2019 10:00	1462.2
3/21/2019 10:00	3/21/2019 11:00	1382.2
3/21/2019 11:00	3/21/2019 12:00	1295.4
3/21/2019 12:00	3/21/2019 13:00	1202.9
3/21/2019 13:00	3/21/2019 14:00	1106.1
3/21/2019 14:00	3/21/2019 15:00	1071.2
3/21/2019 15:00	3/21/2019 16:00	1072.7
3/21/2019 16:00	3/21/2019 17:00	1115.0
3/21/2019 17:00	3/21/2019 18:00	1157.0
3/21/2019 18:00	3/21/2019 19:00	1124.1
3/21/2019 19:00	3/21/2019 20:00	1185.5
3/21/2019 20:00	3/21/2019 21:00	1228.0
3/21/2019 21:00	3/21/2019 22:00	1266.5
3/21/2019 22:00	3/21/2019 23:00	1180.1
3/21/2019 23:00	3/22/2019 0:00	1124.5
3/22/2019 0:00	3/22/2019 1:00	1146.1
3/22/2019 1:00	3/22/2019 2:00	1133.5
3/22/2019 2:00	3/22/2019 3:00	1112.5
3/22/2019 3:00	3/22/2019 4:00	1066.2
3/22/2019 4:00	3/22/2019 5:00	1000.2
3/22/2019 5:00	3/22/2019 6:00	1019.2
3/22/2019 6:00	3/22/2019 7:00	1070.9
3/22/2019 7:00	3/22/2019 8:00	1095.9
3/22/2019 8:00	3/22/2019 9:00	1111.1
3/22/2019 9:00	3/22/2019 10:00	1056.6
3/22/2019 10:00	3/22/2019 11:00	1011.8
3/22/2019 11:00	3/22/2019 12:00	1020.9
3/22/2019 12:00	3/22/2019 13:00	1041.9
3/22/2019 13:00	3/22/2019 14:00	1024.8
3/22/2019 14:00	3/22/2019 15:00	1014.6
3/22/2019 15:00	3/22/2019 16:00	1030.3
3/22/2019 16:00	3/22/2019 17:00	949.2
3/22/2019 17:00	3/22/2019 18:00	981.0
3/22/2019 18:00	3/22/2019 19:00	1011.9
3/22/2019 19:00	3/22/2019 20:00	1087.3
3/22/2019 20:00	3/22/2019 21:00	1107.7
3/22/2019 21:00	3/22/2019 22:00	1009.2
3/22/2019 22:00	3/22/2019 23:00	922.4
3/22/2019 23:00	3/23/2019 0:00	879.8
3/23/2019 0:00	3/23/2019 1:00	861.3
3/23/2019 1:00	3/23/2019 2:00	779.0
3/23/2019 2:00	3/23/2019 3:00	736.5
3/23/2019 3:00	3/23/2019 4:00	716.1
3/23/2019 4:00	3/23/2019 5:00	721.6
3/23/2019 5:00	3/23/2019 6:00	731.6
3/23/2019 6:00	3/23/2019 7:00	788.5
3/23/2019 7:00	3/23/2019 8:00	850.1
3/23/2019 8:00	3/23/2019 9:00	941.1
3/23/2019 9:00	3/23/2019 10:00	952.1
3/23/2019 10:00	3/23/2019 11:00	971.6
3/23/2019 11:00	3/23/2019 12:00	1004.3
3/23/2019 12:00	3/23/2019 13:00	1012.1
3/23/2019 13:00	3/23/2019 14:00	994.6
3/23/2019 14:00	3/23/2019 15:00	999.1
3/23/2019 15:00	3/23/2019 16:00	994.2
3/23/2019 16:00	3/23/2019 17:00	1047.0

Start Time	End Time	ANL_MW
3/23/2019 17:00	3/23/2019 18:00	1092.6
3/23/2019 18:00	3/23/2019 19:00	1084.9
3/23/2019 19:00	3/23/2019 20:00	1075.2
3/23/2019 20:00	3/23/2019 21:00	1009.9
3/23/2019 21:00	3/23/2019 22:00	1001.5
3/23/2019 22:00	3/23/2019 23:00	936.8
3/23/2019 23:00	3/24/2019 0:00	910.3
3/24/2019 0:00	3/24/2019 1:00	844.1
3/24/2019 1:00	3/24/2019 2:00	813.7
3/24/2019 2:00	3/24/2019 3:00	789.7
3/24/2019 3:00	3/24/2019 4:00	785.6
3/24/2019 4:00	3/24/2019 5:00	775.8
3/24/2019 5:00	3/24/2019 6:00	784.4
3/24/2019 6:00	3/24/2019 7:00	787.4
3/24/2019 7:00	3/24/2019 8:00	874.6
3/24/2019 8:00	3/24/2019 9:00	950.4
3/24/2019 9:00	3/24/2019 10:00	1016.5
3/24/2019 10:00	3/24/2019 11:00	1069.9
3/24/2019 11:00	3/24/2019 12:00	1042.7
3/24/2019 12:00	3/24/2019 13:00	1022.9
3/24/2019 13:00	3/24/2019 14:00	982.2
3/24/2019 14:00	3/24/2019 15:00	931.7
3/24/2019 15:00	3/24/2019 16:00	944.9
3/24/2019 16:00	3/24/2019 17:00	966.2
3/24/2019 17:00	3/24/2019 18:00	978.0
3/24/2019 18:00	3/24/2019 19:00	994.7
3/24/2019 19:00	3/24/2019 20:00	1089.6
3/24/2019 20:00	3/24/2019 21:00	1098.5
3/24/2019 21:00	3/24/2019 22:00	1104.7
3/24/2019 22:00	3/24/2019 23:00	1054.4
3/24/2019 23:00	3/25/2019 0:00	1062.8
3/25/2019 0:00	3/25/2019 1:00	1039.7
3/25/2019 1:00	3/25/2019 2:00	1043.5
3/25/2019 2:00	3/25/2019 3:00	1131.5
3/25/2019 3:00	3/25/2019 4:00	1128.3
3/25/2019 4:00	3/25/2019 5:00	1142.8
3/25/2019 5:00	3/25/2019 6:00	1188.1
3/25/2019 6:00	3/25/2019 7:00	1260.4
3/25/2019 7:00	3/25/2019 8:00	1391.2
3/25/2019 8:00	3/25/2019 9:00	1420.0
3/25/2019 9:00	3/25/2019 10:00	1376.8
3/25/2019 10:00	3/25/2019 11:00	1336.8
3/25/2019 11:00	3/25/2019 12:00	1277.3
3/25/2019 12:00	3/25/2019 13:00	1190.9
3/25/2019 13:00	3/25/2019 14:00	1123.0
3/25/2019 14:00	3/25/2019 15:00	1086.2
3/25/2019 15:00	3/25/2019 16:00	1022.6
3/25/2019 16:00	3/25/2019 17:00	979.7
3/25/2019 17:00	3/25/2019 18:00	1024.3
3/25/2019 18:00	3/25/2019 19:00	1068.6
3/25/2019 19:00	3/25/2019 20:00	1199.3
3/25/2019 20:00	3/25/2019 21:00	1292.7
3/25/2019 21:00	3/25/2019 22:00	1240.9
3/25/2019 22:00	3/25/2019 23:00	1175.8
3/25/2019 23:00	3/26/2019 0:00	1156.6
3/26/2019 0:00	3/26/2019 1:00	1195.2
3/26/2019 1:00	3/26/2019 2:00	1196.3
3/26/2019 2:00	3/26/2019 3:00	1187.1
3/26/2019 3:00	3/26/2019 4:00	1218.8
3/26/2019 4:00	3/26/2019 5:00	1251.2
3/26/2019 5:00	3/26/2019 6:00	1304.3
3/26/2019 6:00	3/26/2019 7:00	1433.4
3/26/2019 7:00	3/26/2019 8:00	1546.6
3/26/2019 8:00	3/26/2019 9:00	1504.3
3/26/2019 9:00	3/26/2019 10:00	1393.8
3/26/2019 10:00	3/26/2019 11:00	1309.7
3/26/2019 11:00	3/26/2019 12:00	1220.3
3/26/2019 12:00	3/26/2019 13:00	1151.7
3/26/2019 13:00	3/26/2019 14:00	1139.9
3/26/2019 14:00	3/26/2019 15:00	1103.5

Start Time	End Time	ANL_MW
3/26/2019 15:00	3/26/2019 16:00	1116.5
3/26/2019 16:00	3/26/2019 17:00	1165.4
3/26/2019 17:00	3/26/2019 18:00	1185.4
3/26/2019 18:00	3/26/2019 19:00	1182.9
3/26/2019 19:00	3/26/2019 20:00	1265.4
3/26/2019 20:00	3/26/2019 21:00	1333.8
3/26/2019 21:00	3/26/2019 22:00	1308.5
3/26/2019 22:00	3/26/2019 23:00	1235.9
3/26/2019 23:00	3/27/2019 0:00	1205.3
3/27/2019 0:00	3/27/2019 1:00	1212.9
3/27/2019 1:00	3/27/2019 2:00	1160.6
3/27/2019 2:00	3/27/2019 3:00	1124.6
3/27/2019 3:00	3/27/2019 4:00	1179.6
3/27/2019 4:00	3/27/2019 5:00	1219.0
3/27/2019 5:00	3/27/2019 6:00	1238.1
3/27/2019 6:00	3/27/2019 7:00	1367.8
3/27/2019 7:00	3/27/2019 8:00	1438.5
3/27/2019 8:00	3/27/2019 9:00	1448.5
3/27/2019 9:00	3/27/2019 10:00	1367.1
3/27/2019 10:00	3/27/2019 11:00	1336.6
3/27/2019 11:00	3/27/2019 12:00	1336.4
3/27/2019 12:00	3/27/2019 13:00	1340.3
3/27/2019 13:00	3/27/2019 14:00	1305.5
3/27/2019 14:00	3/27/2019 15:00	1261.0
3/27/2019 15:00	3/27/2019 16:00	1257.6
3/27/2019 16:00	3/27/2019 17:00	1293.8
3/27/2019 17:00	3/27/2019 18:00	1281.5
3/27/2019 18:00	3/27/2019 19:00	1287.5
3/27/2019 19:00	3/27/2019 20:00	1342.8
3/27/2019 20:00	3/27/2019 21:00	1404.9
3/27/2019 21:00	3/27/2019 22:00	1349.6
3/27/2019 22:00	3/27/2019 23:00	1252.3
3/27/2019 23:00	3/28/2019 0:00	1226.0
3/28/2019 0:00	3/28/2019 1:00	1210.9
3/28/2019 1:00	3/28/2019 2:00	1208.4
3/28/2019 2:00	3/28/2019 3:00	1221.3
3/28/2019 3:00	3/28/2019 4:00	1220.9
3/28/2019 4:00	3/28/2019 5:00	1237.6
3/28/2019 5:00	3/28/2019 6:00	1205.3
3/28/2019 6:00	3/28/2019 7:00	1279.7
3/28/2019 7:00	3/28/2019 8:00	1327.6
3/28/2019 8:00	3/28/2019 9:00	1357.0
3/28/2019 9:00	3/28/2019 10:00	1315.8
3/28/2019 10:00	3/28/2019 11:00	1190.9
3/28/2019 11:00	3/28/2019 12:00	1103.1
3/28/2019 12:00	3/28/2019 13:00	1035.4
3/28/2019 13:00	3/28/2019 14:00	985.5
3/28/2019 14:00	3/28/2019 15:00	932.9
3/28/2019 15:00	3/28/2019 16:00	918.1
3/28/2019 16:00	3/28/2019 17:00	924.4
3/28/2019 17:00	3/28/2019 18:00	925.5
3/28/2019 18:00	3/28/2019 19:00	926.5
3/28/2019 19:00	3/28/2019 20:00	999.9
3/28/2019 20:00	3/28/2019 21:00	1039.5
3/28/2019 21:00	3/28/2019 22:00	998.0
3/28/2019 22:00	3/28/2019 23:00	910.0
3/28/2019 23:00	3/29/2019 0:00	899.5
3/29/2019 0:00	3/29/2019 1:00	917.9
3/29/2019 1:00	3/29/2019 2:00	925.0
3/29/2019 2:00	3/29/2019 3:00	906.3
3/29/2019 3:00	3/29/2019 4:00	874.9
3/29/2019 4:00	3/29/2019 5:00	891.6
3/29/2019 5:00	3/29/2019 6:00	934.3
3/29/2019 6:00	3/29/2019 7:00	1037.1
3/29/2019 7:00	3/29/2019 8:00	1115.9
3/29/2019 8:00	3/29/2019 9:00	1148.4
3/29/2019 9:00	3/29/2019 10:00	1089.9
3/29/2019 10:00	3/29/2019 11:00	1075.4
3/29/2019 11:00	3/29/2019 12:00	1043.7
3/29/2019 12:00	3/29/2019 13:00	991.1

Start Time	End Time	ANL_MW
3/29/2019 13:00	3/29/2019 14:00	966.4
3/29/2019 14:00	3/29/2019 15:00	939.1
3/29/2019 15:00	3/29/2019 16:00	933.1
3/29/2019 16:00	3/29/2019 17:00	969.8
3/29/2019 17:00	3/29/2019 18:00	1002.2
3/29/2019 18:00	3/29/2019 19:00	1045.5
3/29/2019 19:00	3/29/2019 20:00	1034.1
3/29/2019 20:00	3/29/2019 21:00	973.0
3/29/2019 21:00	3/29/2019 22:00	934.5
3/29/2019 22:00	3/29/2019 23:00	947.1
3/29/2019 23:00	3/30/2019 0:00	949.6
3/30/2019 0:00	3/30/2019 1:00	1006.6
3/30/2019 1:00	3/30/2019 2:00	1054.2
3/30/2019 2:00	3/30/2019 3:00	1071.0
3/30/2019 3:00	3/30/2019 4:00	1088.5
3/30/2019 4:00	3/30/2019 5:00	1097.5
3/30/2019 5:00	3/30/2019 6:00	1106.8
3/30/2019 6:00	3/30/2019 7:00	1103.6
3/30/2019 7:00	3/30/2019 8:00	1156.8
3/30/2019 8:00	3/30/2019 9:00	1211.8
3/30/2019 9:00	3/30/2019 10:00	1294.4
3/30/2019 10:00	3/30/2019 11:00	1342.8
3/30/2019 11:00	3/30/2019 12:00	1355.3
3/30/2019 12:00	3/30/2019 13:00	1306.0
3/30/2019 13:00	3/30/2019 14:00	1277.7
3/30/2019 14:00	3/30/2019 15:00	1243.3
3/30/2019 15:00	3/30/2019 16:00	1242.9
3/30/2019 16:00	3/30/2019 17:00	1270.7
3/30/2019 17:00	3/30/2019 18:00	1287.0
3/30/2019 18:00	3/30/2019 19:00	1262.4
3/30/2019 19:00	3/30/2019 20:00	1265.1
3/30/2019 20:00	3/30/2019 21:00	1207.1
3/30/2019 21:00	3/30/2019 22:00	1132.3
3/30/2019 22:00	3/30/2019 23:00	1083.9
3/30/2019 23:00	3/31/2019 0:00	976.7
3/31/2019 0:00	3/31/2019 1:00	918.3
3/31/2019 1:00	3/31/2019 2:00	850.1
3/31/2019 2:00	3/31/2019 3:00	808.8
3/31/2019 3:00	3/31/2019 4:00	767.7
3/31/2019 4:00	3/31/2019 5:00	756.8
3/31/2019 5:00	3/31/2019 6:00	755.0
3/31/2019 6:00	3/31/2019 7:00	805.0
3/31/2019 7:00	3/31/2019 8:00	828.0
3/31/2019 8:00	3/31/2019 9:00	901.5
3/31/2019 9:00	3/31/2019 10:00	951.6
3/31/2019 10:00	3/31/2019 11:00	936.5
3/31/2019 11:00	3/31/2019 12:00	895.3
3/31/2019 12:00	3/31/2019 13:00	811.1
3/31/2019 13:00	3/31/2019 14:00	756.8
3/31/2019 14:00	3/31/2019 15:00	737.0
3/31/2019 15:00	3/31/2019 16:00	731.4
3/31/2019 16:00	3/31/2019 17:00	780.6
3/31/2019 17:00	3/31/2019 18:00	850.0
3/31/2019 18:00	3/31/2019 19:00	842.1
3/31/2019 19:00	3/31/2019 20:00	872.8
3/31/2019 20:00	3/31/2019 21:00	888.0
3/31/2019 21:00	3/31/2019 22:00	859.7
3/31/2019 22:00	3/31/2019 23:00	769.5
3/31/2019 23:00	4/1/2019 0:00	732.3
4/1/2019 0:00	4/1/2019 1:00	695.1
4/1/2019 1:00	4/1/2019 2:00	662.9
4/1/2019 2:00	4/1/2019 3:00	633.4
4/1/2019 3:00	4/1/2019 4:00	627.5
4/1/2019 4:00	4/1/2019 5:00	635.2
4/1/2019 5:00	4/1/2019 6:00	707.4
4/1/2019 6:00	4/1/2019 7:00	893.2
4/1/2019 7:00	4/1/2019 8:00	988.7
4/1/2019 8:00	4/1/2019 9:00	991.1
4/1/2019 9:00	4/1/2019 10:00	983.1
4/1/2019 10:00	4/1/2019 11:00	1001.8

Start Time	End Time	ANL_MW
4/1/2019 11:00	4/1/2019 12:00	1020.0
4/1/2019 12:00	4/1/2019 13:00	1007.7
4/1/2019 13:00	4/1/2019 14:00	980.2
4/1/2019 14:00	4/1/2019 15:00	976.8
4/1/2019 15:00	4/1/2019 16:00	1032.0
4/1/2019 16:00	4/1/2019 17:00	1045.1
4/1/2019 17:00	4/1/2019 18:00	1021.4
4/1/2019 18:00	4/1/2019 19:00	1000.2
4/1/2019 19:00	4/1/2019 20:00	1062.5
4/1/2019 20:00	4/1/2019 21:00	1065.0
4/1/2019 21:00	4/1/2019 22:00	1003.4
4/1/2019 22:00	4/1/2019 23:00	927.3
4/1/2019 23:00	4/2/2019 0:00	902.0
4/2/2019 0:00	4/2/2019 1:00	880.5
4/2/2019 1:00	4/2/2019 2:00	875.1
4/2/2019 2:00	4/2/2019 3:00	876.1
4/2/2019 3:00	4/2/2019 4:00	879.1
4/2/2019 4:00	4/2/2019 5:00	929.5
4/2/2019 5:00	4/2/2019 6:00	1018.3
4/2/2019 6:00	4/2/2019 7:00	1137.5
4/2/2019 7:00	4/2/2019 8:00	1259.1
4/2/2019 8:00	4/2/2019 9:00	1241.9
4/2/2019 9:00	4/2/2019 10:00	1181.1
4/2/2019 10:00	4/2/2019 11:00	1174.7
4/2/2019 11:00	4/2/2019 12:00	1117.9
4/2/2019 12:00	4/2/2019 13:00	994.7
4/2/2019 13:00	4/2/2019 14:00	940.4
4/2/2019 14:00	4/2/2019 15:00	901.1
4/2/2019 15:00	4/2/2019 16:00	932.2
4/2/2019 16:00	4/2/2019 17:00	1012.2
4/2/2019 17:00	4/2/2019 18:00	1001.6
4/2/2019 18:00	4/2/2019 19:00	995.8
4/2/2019 19:00	4/2/2019 20:00	1043.9
4/2/2019 20:00	4/2/2019 21:00	1130.3
4/2/2019 21:00	4/2/2019 22:00	1093.8
4/2/2019 22:00	4/2/2019 23:00	1031.8
4/2/2019 23:00	4/3/2019 0:00	1004.4
4/3/2019 0:00	4/3/2019 1:00	970.8
4/3/2019 1:00	4/3/2019 2:00	942.5
4/3/2019 2:00	4/3/2019 3:00	940.8
4/3/2019 3:00	4/3/2019 4:00	952.9
4/3/2019 4:00	4/3/2019 5:00	953.0
4/3/2019 5:00	4/3/2019 6:00	948.5
4/3/2019 6:00	4/3/2019 7:00	1073.4
4/3/2019 7:00	4/3/2019 8:00	1167.9
4/3/2019 8:00	4/3/2019 9:00	1152.0
4/3/2019 9:00	4/3/2019 10:00	1116.3
4/3/2019 10:00	4/3/2019 11:00	1120.7
4/3/2019 11:00	4/3/2019 12:00	1177.4
4/3/2019 12:00	4/3/2019 13:00	1197.6
4/3/2019 13:00	4/3/2019 14:00	1233.8
4/3/2019 14:00	4/3/2019 15:00	1251.6
4/3/2019 15:00	4/3/2019 16:00	1155.0
4/3/2019 16:00	4/3/2019 17:00	1091.4
4/3/2019 17:00	4/3/2019 18:00	1137.7
4/3/2019 18:00	4/3/2019 19:00	1101.9
4/3/2019 19:00	4/3/2019 20:00	1135.0
4/3/2019 20:00	4/3/2019 21:00	1089.6
4/3/2019 21:00	4/3/2019 22:00	1005.7
4/3/2019 22:00	4/3/2019 23:00	885.0
4/3/2019 23:00	4/4/2019 0:00	826.8
4/4/2019 0:00	4/4/2019 1:00	765.9
4/4/2019 1:00	4/4/2019 2:00	722.2
4/4/2019 2:00	4/4/2019 3:00	691.8
4/4/2019 3:00	4/4/2019 4:00	678.7
4/4/2019 4:00	4/4/2019 5:00	698.7
4/4/2019 5:00	4/4/2019 6:00	771.3
4/4/2019 6:00	4/4/2019 7:00	931.6
4/4/2019 7:00	4/4/2019 8:00	1016.5
4/4/2019 8:00	4/4/2019 9:00	1057.0

Start Time	End Time	ANL_MW
4/4/2019 9:00	4/4/2019 10:00	1069.0
4/4/2019 10:00	4/4/2019 11:00	1073.1
4/4/2019 11:00	4/4/2019 12:00	1058.7
4/4/2019 12:00	4/4/2019 13:00	1048.7
4/4/2019 13:00	4/4/2019 14:00	1018.7
4/4/2019 14:00	4/4/2019 15:00	1006.4
4/4/2019 15:00	4/4/2019 16:00	1009.6
4/4/2019 16:00	4/4/2019 17:00	1055.9
4/4/2019 17:00	4/4/2019 18:00	1074.4
4/4/2019 18:00	4/4/2019 19:00	1041.9
4/4/2019 19:00	4/4/2019 20:00	1074.8
4/4/2019 20:00	4/4/2019 21:00	1099.3
4/4/2019 21:00	4/4/2019 22:00	1031.5
4/4/2019 22:00	4/4/2019 23:00	956.7
4/4/2019 23:00	4/5/2019 0:00	916.0
4/5/2019 0:00	4/5/2019 1:00	940.5
4/5/2019 1:00	4/5/2019 2:00	923.5
4/5/2019 2:00	4/5/2019 3:00	884.9
4/5/2019 3:00	4/5/2019 4:00	869.2
4/5/2019 4:00	4/5/2019 5:00	875.6
4/5/2019 5:00	4/5/2019 6:00	919.4
4/5/2019 6:00	4/5/2019 7:00	1045.0
4/5/2019 7:00	4/5/2019 8:00	1070.3
4/5/2019 8:00	4/5/2019 9:00	1063.3
4/5/2019 9:00	4/5/2019 10:00	1054.3
4/5/2019 10:00	4/5/2019 11:00	1084.2
4/5/2019 11:00	4/5/2019 12:00	1070.7
4/5/2019 12:00	4/5/2019 13:00	1032.0
4/5/2019 13:00	4/5/2019 14:00	1085.5
4/5/2019 14:00	4/5/2019 15:00	1044.9
4/5/2019 15:00	4/5/2019 16:00	1028.0
4/5/2019 16:00	4/5/2019 17:00	1087.7
4/5/2019 17:00	4/5/2019 18:00	1108.6
4/5/2019 18:00	4/5/2019 19:00	1113.3
4/5/2019 19:00	4/5/2019 20:00	1090.3
4/5/2019 20:00	4/5/2019 21:00	1129.5
4/5/2019 21:00	4/5/2019 22:00	1083.2
4/5/2019 22:00	4/5/2019 23:00	1018.5
4/5/2019 23:00	4/6/2019 0:00	1000.3
4/6/2019 0:00	4/6/2019 1:00	961.8
4/6/2019 1:00	4/6/2019 2:00	927.4
4/6/2019 2:00	4/6/2019 3:00	878.4
4/6/2019 3:00	4/6/2019 4:00	870.0
4/6/2019 4:00	4/6/2019 5:00	865.2
4/6/2019 5:00	4/6/2019 6:00	883.5
4/6/2019 6:00	4/6/2019 7:00	882.1
4/6/2019 7:00	4/6/2019 8:00	934.0
4/6/2019 8:00	4/6/2019 9:00	1017.5
4/6/2019 9:00	4/6/2019 10:00	1036.4
4/6/2019 10:00	4/6/2019 11:00	1005.5
4/6/2019 11:00	4/6/2019 12:00	1005.6
4/6/2019 12:00	4/6/2019 13:00	986.9
4/6/2019 13:00	4/6/2019 14:00	951.8
4/6/2019 14:00	4/6/2019 15:00	981.5
4/6/2019 15:00	4/6/2019 16:00	1006.6
4/6/2019 16:00	4/6/2019 17:00	1073.3
4/6/2019 17:00	4/6/2019 18:00	1119.0
4/6/2019 18:00	4/6/2019 19:00	1144.6
4/6/2019 19:00	4/6/2019 20:00	1153.3
4/6/2019 20:00	4/6/2019 21:00	1159.2
4/6/2019 21:00	4/6/2019 22:00	1089.9
4/6/2019 22:00	4/6/2019 23:00	996.2
4/6/2019 23:00	4/7/2019 0:00	937.9
4/7/2019 0:00	4/7/2019 1:00	856.1
4/7/2019 1:00	4/7/2019 2:00	815.3
4/7/2019 2:00	4/7/2019 3:00	798.2
4/7/2019 3:00	4/7/2019 4:00	812.6
4/7/2019 4:00	4/7/2019 5:00	875.8
4/7/2019 5:00	4/7/2019 6:00	887.7
4/7/2019 6:00	4/7/2019 7:00	932.2

Start Time	End Time	ANL_MW
4/7/2019 7:00	4/7/2019 8:00	984.9
4/7/2019 8:00	4/7/2019 9:00	1059.0
4/7/2019 9:00	4/7/2019 10:00	1095.8
4/7/2019 10:00	4/7/2019 11:00	1055.0
4/7/2019 11:00	4/7/2019 12:00	1010.2
4/7/2019 12:00	4/7/2019 13:00	962.8
4/7/2019 13:00	4/7/2019 14:00	905.8
4/7/2019 14:00	4/7/2019 15:00	852.2
4/7/2019 15:00	4/7/2019 16:00	877.8
4/7/2019 16:00	4/7/2019 17:00	915.3
4/7/2019 17:00	4/7/2019 18:00	935.7
4/7/2019 18:00	4/7/2019 19:00	953.4
4/7/2019 19:00	4/7/2019 20:00	1005.8
4/7/2019 20:00	4/7/2019 21:00	1072.1
4/7/2019 21:00	4/7/2019 22:00	1031.7
4/7/2019 22:00	4/7/2019 23:00	940.9
4/7/2019 23:00	4/8/2019 0:00	778.3
4/8/2019 0:00	4/8/2019 1:00	736.6
4/8/2019 1:00	4/8/2019 2:00	753.3
4/8/2019 2:00	4/8/2019 3:00	830.5
4/8/2019 3:00	4/8/2019 4:00	896.9
4/8/2019 4:00	4/8/2019 5:00	990.5
4/8/2019 5:00	4/8/2019 6:00	1052.4
4/8/2019 6:00	4/8/2019 7:00	1177.4
4/8/2019 7:00	4/8/2019 8:00	1333.8
4/8/2019 8:00	4/8/2019 9:00	1329.5
4/8/2019 9:00	4/8/2019 10:00	1314.1
4/8/2019 10:00	4/8/2019 11:00	1320.7
4/8/2019 11:00	4/8/2019 12:00	1341.2
4/8/2019 12:00	4/8/2019 13:00	1341.8
4/8/2019 13:00	4/8/2019 14:00	1333.0
4/8/2019 14:00	4/8/2019 15:00	1321.9
4/8/2019 15:00	4/8/2019 16:00	1321.1
4/8/2019 16:00	4/8/2019 17:00	1358.6
4/8/2019 17:00	4/8/2019 18:00	1399.3
4/8/2019 18:00	4/8/2019 19:00	1398.6
4/8/2019 19:00	4/8/2019 20:00	1411.4
4/8/2019 20:00	4/8/2019 21:00	1401.8
4/8/2019 21:00	4/8/2019 22:00	1319.4
4/8/2019 22:00	4/8/2019 23:00	1208.3
4/8/2019 23:00	4/9/2019 0:00	1148.0
4/9/2019 0:00	4/9/2019 1:00	1095.5
4/9/2019 1:00	4/9/2019 2:00	1101.4
4/9/2019 2:00	4/9/2019 3:00	1091.8
4/9/2019 3:00	4/9/2019 4:00	1112.4
4/9/2019 4:00	4/9/2019 5:00	1135.9
4/9/2019 5:00	4/9/2019 6:00	1178.5
4/9/2019 6:00	4/9/2019 7:00	1290.6
4/9/2019 7:00	4/9/2019 8:00	1378.4
4/9/2019 8:00	4/9/2019 9:00	1431.8
4/9/2019 9:00	4/9/2019 10:00	1443.2
4/9/2019 10:00	4/9/2019 11:00	1443.2
4/9/2019 11:00	4/9/2019 12:00	1424.5
4/9/2019 12:00	4/9/2019 13:00	1405.3
4/9/2019 13:00	4/9/2019 14:00	1369.4
4/9/2019 14:00	4/9/2019 15:00	1326.0
4/9/2019 15:00	4/9/2019 16:00	1335.1
4/9/2019 16:00	4/9/2019 17:00	1369.2
4/9/2019 17:00	4/9/2019 18:00	1366.2
4/9/2019 18:00	4/9/2019 19:00	1353.7
4/9/2019 19:00	4/9/2019 20:00	1377.8
4/9/2019 20:00	4/9/2019 21:00	1417.3
4/9/2019 21:00	4/9/2019 22:00	1364.8
4/9/2019 22:00	4/9/2019 23:00	1278.4
4/9/2019 23:00	4/10/2019 0:00	1246.2
4/10/2019 0:00	4/10/2019 1:00	1210.0
4/10/2019 1:00	4/10/2019 2:00	1192.2
4/10/2019 2:00	4/10/2019 3:00	1174.2
4/10/2019 3:00	4/10/2019 4:00	1174.0
4/10/2019 4:00	4/10/2019 5:00	1180.8

Start Time	End Time	ANL_MW
4/10/2019 5:00	4/10/2019 6:00	1233.3
4/10/2019 6:00	4/10/2019 7:00	1364.6
4/10/2019 7:00	4/10/2019 8:00	1456.5
4/10/2019 8:00	4/10/2019 9:00	1503.3
4/10/2019 9:00	4/10/2019 10:00	1501.9
4/10/2019 10:00	4/10/2019 11:00	1457.0
4/10/2019 11:00	4/10/2019 12:00	1427.5
4/10/2019 12:00	4/10/2019 13:00	1407.7
4/10/2019 13:00	4/10/2019 14:00	1379.6
4/10/2019 14:00	4/10/2019 15:00	1332.9
4/10/2019 15:00	4/10/2019 16:00	1314.9
4/10/2019 16:00	4/10/2019 17:00	1317.7
4/10/2019 17:00	4/10/2019 18:00	1310.6
4/10/2019 18:00	4/10/2019 19:00	1288.3
4/10/2019 19:00	4/10/2019 20:00	1309.7
4/10/2019 20:00	4/10/2019 21:00	1355.4
4/10/2019 21:00	4/10/2019 22:00	1332.7
4/10/2019 22:00	4/10/2019 23:00	1203.3
4/10/2019 23:00	4/11/2019 0:00	1117.2
4/11/2019 0:00	4/11/2019 1:00	1078.9
4/11/2019 1:00	4/11/2019 2:00	1115.3
4/11/2019 2:00	4/11/2019 3:00	1100.3
4/11/2019 3:00	4/11/2019 4:00	1047.9
4/11/2019 4:00	4/11/2019 5:00	1015.6
4/11/2019 5:00	4/11/2019 6:00	1054.9
4/11/2019 6:00	4/11/2019 7:00	1192.9
4/11/2019 7:00	4/11/2019 8:00	1298.3
4/11/2019 8:00	4/11/2019 9:00	1330.6
4/11/2019 9:00	4/11/2019 10:00	1299.7
4/11/2019 10:00	4/11/2019 11:00	1271.2
4/11/2019 11:00	4/11/2019 12:00	1195.5
4/11/2019 12:00	4/11/2019 13:00	1192.9
4/11/2019 13:00	4/11/2019 14:00	1156.3
4/11/2019 14:00	4/11/2019 15:00	1130.6
4/11/2019 15:00	4/11/2019 16:00	1131.1
4/11/2019 16:00	4/11/2019 17:00	1134.8
4/11/2019 17:00	4/11/2019 18:00	1140.4
4/11/2019 18:00	4/11/2019 19:00	1187.6
4/11/2019 19:00	4/11/2019 20:00	1234.8
4/11/2019 20:00	4/11/2019 21:00	1294.6
4/11/2019 21:00	4/11/2019 22:00	1279.3
4/11/2019 22:00	4/11/2019 23:00	1201.2
4/11/2019 23:00	4/12/2019 0:00	1173.4
4/12/2019 0:00	4/12/2019 1:00	1163.5
4/12/2019 1:00	4/12/2019 2:00	1131.2
4/12/2019 2:00	4/12/2019 3:00	1120.7
4/12/2019 3:00	4/12/2019 4:00	1134.0
4/12/2019 4:00	4/12/2019 5:00	1172.6
4/12/2019 5:00	4/12/2019 6:00	1199.3
4/12/2019 6:00	4/12/2019 7:00	1306.5
4/12/2019 7:00	4/12/2019 8:00	1381.7
4/12/2019 8:00	4/12/2019 9:00	1373.3
4/12/2019 9:00	4/12/2019 10:00	1315.5
4/12/2019 10:00	4/12/2019 11:00	1258.7
4/12/2019 11:00	4/12/2019 12:00	1211.3
4/12/2019 12:00	4/12/2019 13:00	1174.5
4/12/2019 13:00	4/12/2019 14:00	1102.8
4/12/2019 14:00	4/12/2019 15:00	1040.2
4/12/2019 15:00	4/12/2019 16:00	1048.2
4/12/2019 16:00	4/12/2019 17:00	1047.7
4/12/2019 17:00	4/12/2019 18:00	1066.8
4/12/2019 18:00	4/12/2019 19:00	1125.4
4/12/2019 19:00	4/12/2019 20:00	1178.6
4/12/2019 20:00	4/12/2019 21:00	1251.8
4/12/2019 21:00	4/12/2019 22:00	1212.3
4/12/2019 22:00	4/12/2019 23:00	1134.7
4/12/2019 23:00	4/13/2019 0:00	1050.5
4/13/2019 0:00	4/13/2019 1:00	985.6
4/13/2019 1:00	4/13/2019 2:00	897.6
4/13/2019 2:00	4/13/2019 3:00	859.7

Start Time	End Time	ANL_MW
4/13/2019 3:00	4/13/2019 4:00	861.5
4/13/2019 4:00	4/13/2019 5:00	800.4
4/13/2019 5:00	4/13/2019 6:00	779.9
4/13/2019 6:00	4/13/2019 7:00	789.5
4/13/2019 7:00	4/13/2019 8:00	877.3
4/13/2019 8:00	4/13/2019 9:00	959.9
4/13/2019 9:00	4/13/2019 10:00	1052.0
4/13/2019 10:00	4/13/2019 11:00	1111.6
4/13/2019 11:00	4/13/2019 12:00	1061.0
4/13/2019 12:00	4/13/2019 13:00	1037.8
4/13/2019 13:00	4/13/2019 14:00	973.3
4/13/2019 14:00	4/13/2019 15:00	971.8
4/13/2019 15:00	4/13/2019 16:00	978.1
4/13/2019 16:00	4/13/2019 17:00	988.7
4/13/2019 17:00	4/13/2019 18:00	997.2
4/13/2019 18:00	4/13/2019 19:00	941.7
4/13/2019 19:00	4/13/2019 20:00	869.7
4/13/2019 20:00	4/13/2019 21:00	864.1
4/13/2019 21:00	4/13/2019 22:00	857.7
4/13/2019 22:00	4/13/2019 23:00	818.4
4/13/2019 23:00	4/14/2019 0:00	747.5
4/14/2019 0:00	4/14/2019 1:00	715.0
4/14/2019 1:00	4/14/2019 2:00	694.0
4/14/2019 2:00	4/14/2019 3:00	698.4
4/14/2019 3:00	4/14/2019 4:00	785.7
4/14/2019 4:00	4/14/2019 5:00	808.7
4/14/2019 5:00	4/14/2019 6:00	834.0
4/14/2019 6:00	4/14/2019 7:00	841.5
4/14/2019 7:00	4/14/2019 8:00	904.0
4/14/2019 8:00	4/14/2019 9:00	1045.3
4/14/2019 9:00	4/14/2019 10:00	1101.6
4/14/2019 10:00	4/14/2019 11:00	1066.7
4/14/2019 11:00	4/14/2019 12:00	1055.1
4/14/2019 12:00	4/14/2019 13:00	999.6
4/14/2019 13:00	4/14/2019 14:00	917.9
4/14/2019 14:00	4/14/2019 15:00	895.3
4/14/2019 15:00	4/14/2019 16:00	875.2
4/14/2019 16:00	4/14/2019 17:00	929.0
4/14/2019 17:00	4/14/2019 18:00	971.0
4/14/2019 18:00	4/14/2019 19:00	1049.7
4/14/2019 19:00	4/14/2019 20:00	1118.9
4/14/2019 20:00	4/14/2019 21:00	1194.1
4/14/2019 21:00	4/14/2019 22:00	1125.5
4/14/2019 22:00	4/14/2019 23:00	1069.1
4/14/2019 23:00	4/15/2019 0:00	1030.7
4/15/2019 0:00	4/15/2019 1:00	993.5
4/15/2019 1:00	4/15/2019 2:00	915.6
4/15/2019 2:00	4/15/2019 3:00	825.1
4/15/2019 3:00	4/15/2019 4:00	748.7
4/15/2019 4:00	4/15/2019 5:00	768.9
4/15/2019 5:00	4/15/2019 6:00	778.6
4/15/2019 6:00	4/15/2019 7:00	899.0
4/15/2019 7:00	4/15/2019 8:00	978.5
4/15/2019 8:00	4/15/2019 9:00	1015.0
4/15/2019 9:00	4/15/2019 10:00	1030.8
4/15/2019 10:00	4/15/2019 11:00	1042.5
4/15/2019 11:00	4/15/2019 12:00	1049.0
4/15/2019 12:00	4/15/2019 13:00	1057.3
4/15/2019 13:00	4/15/2019 14:00	1034.9
4/15/2019 14:00	4/15/2019 15:00	964.9
4/15/2019 15:00	4/15/2019 16:00	896.0
4/15/2019 16:00	4/15/2019 17:00	949.5
4/15/2019 17:00	4/15/2019 18:00	962.6
4/15/2019 18:00	4/15/2019 19:00	967.3
4/15/2019 19:00	4/15/2019 20:00	920.8
4/15/2019 20:00	4/15/2019 21:00	851.8
4/15/2019 21:00	4/15/2019 22:00	786.8
4/15/2019 22:00	4/15/2019 23:00	728.7
4/15/2019 23:00	4/16/2019 0:00	788.0
4/16/2019 0:00	4/16/2019 1:00	822.2

Start Time	End Time	ANL_MW
4/16/2019 1:00	4/16/2019 2:00	835.7
4/16/2019 2:00	4/16/2019 3:00	848.0
4/16/2019 3:00	4/16/2019 4:00	846.5
4/16/2019 4:00	4/16/2019 5:00	847.0
4/16/2019 5:00	4/16/2019 6:00	867.6
4/16/2019 6:00	4/16/2019 7:00	937.7
4/16/2019 7:00	4/16/2019 8:00	995.8
4/16/2019 8:00	4/16/2019 9:00	1034.3
4/16/2019 9:00	4/16/2019 10:00	1025.5
4/16/2019 10:00	4/16/2019 11:00	1042.1
4/16/2019 11:00	4/16/2019 12:00	1015.8
4/16/2019 12:00	4/16/2019 13:00	948.8
4/16/2019 13:00	4/16/2019 14:00	873.3
4/16/2019 14:00	4/16/2019 15:00	832.3
4/16/2019 15:00	4/16/2019 16:00	837.4
4/16/2019 16:00	4/16/2019 17:00	862.3
4/16/2019 17:00	4/16/2019 18:00	915.7
4/16/2019 18:00	4/16/2019 19:00	926.0
4/16/2019 19:00	4/16/2019 20:00	903.5
4/16/2019 20:00	4/16/2019 21:00	920.3
4/16/2019 21:00	4/16/2019 22:00	878.2
4/16/2019 22:00	4/16/2019 23:00	787.8
4/16/2019 23:00	4/17/2019 0:00	751.4
4/17/2019 0:00	4/17/2019 1:00	779.2
4/17/2019 1:00	4/17/2019 2:00	769.0
4/17/2019 2:00	4/17/2019 3:00	728.7
4/17/2019 3:00	4/17/2019 4:00	722.8
4/17/2019 4:00	4/17/2019 5:00	750.2
4/17/2019 5:00	4/17/2019 6:00	822.3
4/17/2019 6:00	4/17/2019 7:00	921.4
4/17/2019 7:00	4/17/2019 8:00	956.8
4/17/2019 8:00	4/17/2019 9:00	983.1
4/17/2019 9:00	4/17/2019 10:00	979.0
4/17/2019 10:00	4/17/2019 11:00	966.4
4/17/2019 11:00	4/17/2019 12:00	994.7
4/17/2019 12:00	4/17/2019 13:00	1038.8
4/17/2019 13:00	4/17/2019 14:00	995.7
4/17/2019 14:00	4/17/2019 15:00	974.5
4/17/2019 15:00	4/17/2019 16:00	1027.2
4/17/2019 16:00	4/17/2019 17:00	1054.4
4/17/2019 17:00	4/17/2019 18:00	1096.8
4/17/2019 18:00	4/17/2019 19:00	1126.7
4/17/2019 19:00	4/17/2019 20:00	1213.3
4/17/2019 20:00	4/17/2019 21:00	1318.9
4/17/2019 21:00	4/17/2019 22:00	1295.3
4/17/2019 22:00	4/17/2019 23:00	1200.8
4/17/2019 23:00	4/18/2019 0:00	1186.2
4/18/2019 0:00	4/18/2019 1:00	1178.4
4/18/2019 1:00	4/18/2019 2:00	1161.1
4/18/2019 2:00	4/18/2019 3:00	1148.5
4/18/2019 3:00	4/18/2019 4:00	1157.1
4/18/2019 4:00	4/18/2019 5:00	1184.9
4/18/2019 5:00	4/18/2019 6:00	1235.8
4/18/2019 6:00	4/18/2019 7:00	1336.8
4/18/2019 7:00	4/18/2019 8:00	1377.5
4/18/2019 8:00	4/18/2019 9:00	1342.6
4/18/2019 9:00	4/18/2019 10:00	1282.7
4/18/2019 10:00	4/18/2019 11:00	1224.2
4/18/2019 11:00	4/18/2019 12:00	1178.0
4/18/2019 12:00	4/18/2019 13:00	1136.2
4/18/2019 13:00	4/18/2019 14:00	1084.5
4/18/2019 14:00	4/18/2019 15:00	1027.0
4/18/2019 15:00	4/18/2019 16:00	1000.8
4/18/2019 16:00	4/18/2019 17:00	985.2
4/18/2019 17:00	4/18/2019 18:00	974.4
4/18/2019 18:00	4/18/2019 19:00	938.5
4/18/2019 19:00	4/18/2019 20:00	917.1
4/18/2019 20:00	4/18/2019 21:00	909.5
4/18/2019 21:00	4/18/2019 22:00	854.7
4/18/2019 22:00	4/18/2019 23:00	869.6

Start Time	End Time	ANL_MW
4/18/2019 23:00	4/19/2019 0:00	836.6
4/19/2019 0:00	4/19/2019 1:00	807.3
4/19/2019 1:00	4/19/2019 2:00	724.3
4/19/2019 2:00	4/19/2019 3:00	685.6
4/19/2019 3:00	4/19/2019 4:00	693.4
4/19/2019 4:00	4/19/2019 5:00	684.5
4/19/2019 5:00	4/19/2019 6:00	699.4
4/19/2019 6:00	4/19/2019 7:00	727.4
4/19/2019 7:00	4/19/2019 8:00	739.9
4/19/2019 8:00	4/19/2019 9:00	808.9
4/19/2019 9:00	4/19/2019 10:00	876.1
4/19/2019 10:00	4/19/2019 11:00	894.5
4/19/2019 11:00	4/19/2019 12:00	907.7
4/19/2019 12:00	4/19/2019 13:00	900.8
4/19/2019 13:00	4/19/2019 14:00	874.2
4/19/2019 14:00	4/19/2019 15:00	847.7
4/19/2019 15:00	4/19/2019 16:00	826.9
4/19/2019 16:00	4/19/2019 17:00	821.8
4/19/2019 17:00	4/19/2019 18:00	809.6
4/19/2019 18:00	4/19/2019 19:00	784.3
4/19/2019 19:00	4/19/2019 20:00	764.2
4/19/2019 20:00	4/19/2019 21:00	757.9
4/19/2019 21:00	4/19/2019 22:00	711.9
4/19/2019 22:00	4/19/2019 23:00	633.2
4/19/2019 23:00	4/20/2019 0:00	578.8
4/20/2019 0:00	4/20/2019 1:00	532.9
4/20/2019 1:00	4/20/2019 2:00	512.3
4/20/2019 2:00	4/20/2019 3:00	513.0
4/20/2019 3:00	4/20/2019 4:00	540.9
4/20/2019 4:00	4/20/2019 5:00	581.6
4/20/2019 5:00	4/20/2019 6:00	658.4
4/20/2019 6:00	4/20/2019 7:00	769.0
4/20/2019 7:00	4/20/2019 8:00	790.7
4/20/2019 8:00	4/20/2019 9:00	859.5
4/20/2019 9:00	4/20/2019 10:00	829.2
4/20/2019 10:00	4/20/2019 11:00	780.9
4/20/2019 11:00	4/20/2019 12:00	776.0
4/20/2019 12:00	4/20/2019 13:00	797.1
4/20/2019 13:00	4/20/2019 14:00	796.9
4/20/2019 14:00	4/20/2019 15:00	794.8
4/20/2019 15:00	4/20/2019 16:00	816.9
4/20/2019 16:00	4/20/2019 17:00	868.1
4/20/2019 17:00	4/20/2019 18:00	910.1
4/20/2019 18:00	4/20/2019 19:00	947.3
4/20/2019 19:00	4/20/2019 20:00	954.4
4/20/2019 20:00	4/20/2019 21:00	957.6
4/20/2019 21:00	4/20/2019 22:00	905.5
4/20/2019 22:00	4/20/2019 23:00	818.6
4/20/2019 23:00	4/21/2019 0:00	766.7
4/21/2019 0:00	4/21/2019 1:00	679.6
4/21/2019 1:00	4/21/2019 2:00	604.9
4/21/2019 2:00	4/21/2019 3:00	615.3
4/21/2019 3:00	4/21/2019 4:00	603.8
4/21/2019 4:00	4/21/2019 5:00	581.3
4/21/2019 5:00	4/21/2019 6:00	515.9
4/21/2019 6:00	4/21/2019 7:00	533.7
4/21/2019 7:00	4/21/2019 8:00	566.2
4/21/2019 8:00	4/21/2019 9:00	656.9
4/21/2019 9:00	4/21/2019 10:00	734.0
4/21/2019 10:00	4/21/2019 11:00	769.7
4/21/2019 11:00	4/21/2019 12:00	786.3
4/21/2019 12:00	4/21/2019 13:00	772.3
4/21/2019 13:00	4/21/2019 14:00	713.0
4/21/2019 14:00	4/21/2019 15:00	672.3
4/21/2019 15:00	4/21/2019 16:00	662.7
4/21/2019 16:00	4/21/2019 17:00	646.9
4/21/2019 17:00	4/21/2019 18:00	628.8
4/21/2019 18:00	4/21/2019 19:00	655.9
4/21/2019 19:00	4/21/2019 20:00	690.8
4/21/2019 20:00	4/21/2019 21:00	731.9

Start Time	End Time	ANL_MW
4/21/2019 21:00	4/21/2019 22:00	736.6
4/21/2019 22:00	4/21/2019 23:00	675.8
4/21/2019 23:00	4/22/2019 0:00	651.4
4/22/2019 0:00	4/22/2019 1:00	670.0
4/22/2019 1:00	4/22/2019 2:00	662.1
4/22/2019 2:00	4/22/2019 3:00	689.6
4/22/2019 3:00	4/22/2019 4:00	682.9
4/22/2019 4:00	4/22/2019 5:00	728.9
4/22/2019 5:00	4/22/2019 6:00	767.9
4/22/2019 6:00	4/22/2019 7:00	854.7
4/22/2019 7:00	4/22/2019 8:00	1025.8
4/22/2019 8:00	4/22/2019 9:00	1136.8
4/22/2019 9:00	4/22/2019 10:00	1226.9
4/22/2019 10:00	4/22/2019 11:00	1249.6
4/22/2019 11:00	4/22/2019 12:00	1252.7
4/22/2019 12:00	4/22/2019 13:00	1253.1
4/22/2019 13:00	4/22/2019 14:00	1250.7
4/22/2019 14:00	4/22/2019 15:00	1222.1
4/22/2019 15:00	4/22/2019 16:00	1211.8
4/22/2019 16:00	4/22/2019 17:00	1224.5
4/22/2019 17:00	4/22/2019 18:00	1217.0
4/22/2019 18:00	4/22/2019 19:00	1180.4
4/22/2019 19:00	4/22/2019 20:00	1150.1
4/22/2019 20:00	4/22/2019 21:00	1128.2
4/22/2019 21:00	4/22/2019 22:00	1056.3
4/22/2019 22:00	4/22/2019 23:00	960.3
4/22/2019 23:00	4/23/2019 0:00	949.7
4/23/2019 0:00	4/23/2019 1:00	868.3
4/23/2019 1:00	4/23/2019 2:00	824.1
4/23/2019 2:00	4/23/2019 3:00	798.9
4/23/2019 3:00	4/23/2019 4:00	802.3
4/23/2019 4:00	4/23/2019 5:00	810.9
4/23/2019 5:00	4/23/2019 6:00	857.4
4/23/2019 6:00	4/23/2019 7:00	969.4
4/23/2019 7:00	4/23/2019 8:00	1089.3
4/23/2019 8:00	4/23/2019 9:00	1106.0
4/23/2019 9:00	4/23/2019 10:00	1111.0
4/23/2019 10:00	4/23/2019 11:00	1055.7
4/23/2019 11:00	4/23/2019 12:00	1059.9
4/23/2019 12:00	4/23/2019 13:00	1055.7
4/23/2019 13:00	4/23/2019 14:00	1053.9
4/23/2019 14:00	4/23/2019 15:00	1047.5
4/23/2019 15:00	4/23/2019 16:00	1086.6
4/23/2019 16:00	4/23/2019 17:00	1111.8
4/23/2019 17:00	4/23/2019 18:00	1131.8
4/23/2019 18:00	4/23/2019 19:00	1134.2
4/23/2019 19:00	4/23/2019 20:00	1129.7
4/23/2019 20:00	4/23/2019 21:00	1140.6
4/23/2019 21:00	4/23/2019 22:00	1144.0
4/23/2019 22:00	4/23/2019 23:00	1119.2
4/23/2019 23:00	4/24/2019 0:00	1086.8
4/24/2019 0:00	4/24/2019 1:00	1059.3
4/24/2019 1:00	4/24/2019 2:00	1012.3
4/24/2019 2:00	4/24/2019 3:00	1015.4
4/24/2019 3:00	4/24/2019 4:00	1052.5
4/24/2019 4:00	4/24/2019 5:00	1051.7
4/24/2019 5:00	4/24/2019 6:00	1071.8
4/24/2019 6:00	4/24/2019 7:00	1123.5
4/24/2019 7:00	4/24/2019 8:00	1189.1
4/24/2019 8:00	4/24/2019 9:00	1214.8
4/24/2019 9:00	4/24/2019 10:00	1196.2
4/24/2019 10:00	4/24/2019 11:00	1189.3
4/24/2019 11:00	4/24/2019 12:00	1185.3
4/24/2019 12:00	4/24/2019 13:00	1172.1
4/24/2019 13:00	4/24/2019 14:00	1149.6
4/24/2019 14:00	4/24/2019 15:00	1128.3
4/24/2019 15:00	4/24/2019 16:00	1141.2
4/24/2019 16:00	4/24/2019 17:00	1194.3
4/24/2019 17:00	4/24/2019 18:00	1242.1
4/24/2019 18:00	4/24/2019 19:00	1223.3

Start Time	End Time	ANL_MW
4/24/2019 19:00	4/24/2019 20:00	1201.6
4/24/2019 20:00	4/24/2019 21:00	1183.5
4/24/2019 21:00	4/24/2019 22:00	1088.7
4/24/2019 22:00	4/24/2019 23:00	1003.1
4/24/2019 23:00	4/25/2019 0:00	944.4
4/25/2019 0:00	4/25/2019 1:00	919.8
4/25/2019 1:00	4/25/2019 2:00	868.4
4/25/2019 2:00	4/25/2019 3:00	801.0
4/25/2019 3:00	4/25/2019 4:00	823.9
4/25/2019 4:00	4/25/2019 5:00	867.6
4/25/2019 5:00	4/25/2019 6:00	930.0
4/25/2019 6:00	4/25/2019 7:00	1090.9
4/25/2019 7:00	4/25/2019 8:00	1226.1
4/25/2019 8:00	4/25/2019 9:00	1263.1
4/25/2019 9:00	4/25/2019 10:00	1238.1
4/25/2019 10:00	4/25/2019 11:00	1178.8
4/25/2019 11:00	4/25/2019 12:00	1131.6
4/25/2019 12:00	4/25/2019 13:00	1076.2
4/25/2019 13:00	4/25/2019 14:00	1017.0
4/25/2019 14:00	4/25/2019 15:00	968.3
4/25/2019 15:00	4/25/2019 16:00	982.5
4/25/2019 16:00	4/25/2019 17:00	1042.3
4/25/2019 17:00	4/25/2019 18:00	1046.3
4/25/2019 18:00	4/25/2019 19:00	1058.2
4/25/2019 19:00	4/25/2019 20:00	1081.3
4/25/2019 20:00	4/25/2019 21:00	1119.2
4/25/2019 21:00	4/25/2019 22:00	1083.3
4/25/2019 22:00	4/25/2019 23:00	1070.8
4/25/2019 23:00	4/26/2019 0:00	1059.0
4/26/2019 0:00	4/26/2019 1:00	1080.2
4/26/2019 1:00	4/26/2019 2:00	1101.7
4/26/2019 2:00	4/26/2019 3:00	1092.8
4/26/2019 3:00	4/26/2019 4:00	1081.7
4/26/2019 4:00	4/26/2019 5:00	1087.8
4/26/2019 5:00	4/26/2019 6:00	1183.1
4/26/2019 6:00	4/26/2019 7:00	1271.6
4/26/2019 7:00	4/26/2019 8:00	1310.4
4/26/2019 8:00	4/26/2019 9:00	1300.2
4/26/2019 9:00	4/26/2019 10:00	1258.9
4/26/2019 10:00	4/26/2019 11:00	1210.3
4/26/2019 11:00	4/26/2019 12:00	1173.8
4/26/2019 12:00	4/26/2019 13:00	1147.1
4/26/2019 13:00	4/26/2019 14:00	1114.4
4/26/2019 14:00	4/26/2019 15:00	1079.0
4/26/2019 15:00	4/26/2019 16:00	1057.1
4/26/2019 16:00	4/26/2019 17:00	1036.6
4/26/2019 17:00	4/26/2019 18:00	1041.4
4/26/2019 18:00	4/26/2019 19:00	1046.2
4/26/2019 19:00	4/26/2019 20:00	1057.6
4/26/2019 20:00	4/26/2019 21:00	1091.4
4/26/2019 21:00	4/26/2019 22:00	1029.3
4/26/2019 22:00	4/26/2019 23:00	963.2
4/26/2019 23:00	4/27/2019 0:00	881.0
4/27/2019 0:00	4/27/2019 1:00	875.2
4/27/2019 1:00	4/27/2019 2:00	803.9
4/27/2019 2:00	4/27/2019 3:00	711.1
4/27/2019 3:00	4/27/2019 4:00	705.2
4/27/2019 4:00	4/27/2019 5:00	717.0
4/27/2019 5:00	4/27/2019 6:00	723.3
4/27/2019 6:00	4/27/2019 7:00	742.4
4/27/2019 7:00	4/27/2019 8:00	839.7
4/27/2019 8:00	4/27/2019 9:00	919.4
4/27/2019 9:00	4/27/2019 10:00	979.6
4/27/2019 10:00	4/27/2019 11:00	973.5
4/27/2019 11:00	4/27/2019 12:00	971.6
4/27/2019 12:00	4/27/2019 13:00	951.7
4/27/2019 13:00	4/27/2019 14:00	925.2
4/27/2019 14:00	4/27/2019 15:00	933.7
4/27/2019 15:00	4/27/2019 16:00	926.2
4/27/2019 16:00	4/27/2019 17:00	889.0

Start Time	End Time	ANL_MW
4/27/2019 17:00	4/27/2019 18:00	936.5
4/27/2019 18:00	4/27/2019 19:00	931.6
4/27/2019 19:00	4/27/2019 20:00	939.3
4/27/2019 20:00	4/27/2019 21:00	964.0
4/27/2019 21:00	4/27/2019 22:00	957.7
4/27/2019 22:00	4/27/2019 23:00	912.2
4/27/2019 23:00	4/28/2019 0:00	896.1
4/28/2019 0:00	4/28/2019 1:00	910.5
4/28/2019 1:00	4/28/2019 2:00	929.5
4/28/2019 2:00	4/28/2019 3:00	948.9
4/28/2019 3:00	4/28/2019 4:00	936.8
4/28/2019 4:00	4/28/2019 5:00	926.4
4/28/2019 5:00	4/28/2019 6:00	918.1
4/28/2019 6:00	4/28/2019 7:00	944.2
4/28/2019 7:00	4/28/2019 8:00	998.1
4/28/2019 8:00	4/28/2019 9:00	1024.4
4/28/2019 9:00	4/28/2019 10:00	1032.8
4/28/2019 10:00	4/28/2019 11:00	994.4
4/28/2019 11:00	4/28/2019 12:00	963.8
4/28/2019 12:00	4/28/2019 13:00	903.2
4/28/2019 13:00	4/28/2019 14:00	858.4
4/28/2019 14:00	4/28/2019 15:00	828.7
4/28/2019 15:00	4/28/2019 16:00	815.0
4/28/2019 16:00	4/28/2019 17:00	839.5
4/28/2019 17:00	4/28/2019 18:00	883.6
4/28/2019 18:00	4/28/2019 19:00	935.2
4/28/2019 19:00	4/28/2019 20:00	991.7
4/28/2019 20:00	4/28/2019 21:00	1058.0
4/28/2019 21:00	4/28/2019 22:00	1070.5
4/28/2019 22:00	4/28/2019 23:00	1006.8
4/28/2019 23:00	4/29/2019 0:00	932.3
4/29/2019 0:00	4/29/2019 1:00	906.0
4/29/2019 1:00	4/29/2019 2:00	905.5
4/29/2019 2:00	4/29/2019 3:00	889.1
4/29/2019 3:00	4/29/2019 4:00	865.9
4/29/2019 4:00	4/29/2019 5:00	867.9
4/29/2019 5:00	4/29/2019 6:00	923.3
4/29/2019 6:00	4/29/2019 7:00	1004.3
4/29/2019 7:00	4/29/2019 8:00	1055.0
4/29/2019 8:00	4/29/2019 9:00	1072.2
4/29/2019 9:00	4/29/2019 10:00	971.3
4/29/2019 10:00	4/29/2019 11:00	938.3
4/29/2019 11:00	4/29/2019 12:00	914.0
4/29/2019 12:00	4/29/2019 13:00	896.2
4/29/2019 13:00	4/29/2019 14:00	862.6
4/29/2019 14:00	4/29/2019 15:00	823.7
4/29/2019 15:00	4/29/2019 16:00	839.9
4/29/2019 16:00	4/29/2019 17:00	898.8
4/29/2019 17:00	4/29/2019 18:00	893.1
4/29/2019 18:00	4/29/2019 19:00	854.2
4/29/2019 19:00	4/29/2019 20:00	909.8
4/29/2019 20:00	4/29/2019 21:00	1014.5
4/29/2019 21:00	4/29/2019 22:00	1051.7
4/29/2019 22:00	4/29/2019 23:00	950.8
4/29/2019 23:00	4/30/2019 0:00	911.3
4/30/2019 0:00	4/30/2019 1:00	900.1
4/30/2019 1:00	4/30/2019 2:00	866.0
4/30/2019 2:00	4/30/2019 3:00	792.3
4/30/2019 3:00	4/30/2019 4:00	799.2
4/30/2019 4:00	4/30/2019 5:00	827.9
4/30/2019 5:00	4/30/2019 6:00	894.5
4/30/2019 6:00	4/30/2019 7:00	1023.2
4/30/2019 7:00	4/30/2019 8:00	1140.9
4/30/2019 8:00	4/30/2019 9:00	1101.7
4/30/2019 9:00	4/30/2019 10:00	974.6
4/30/2019 10:00	4/30/2019 11:00	948.8
4/30/2019 11:00	4/30/2019 12:00	932.1
4/30/2019 12:00	4/30/2019 13:00	935.9
4/30/2019 13:00	4/30/2019 14:00	910.8
4/30/2019 14:00	4/30/2019 15:00	845.6

Start Time	End Time	ANL_MW
4/30/2019 15:00	4/30/2019 16:00	843.8
4/30/2019 16:00	4/30/2019 17:00	875.5
4/30/2019 17:00	4/30/2019 18:00	896.9
4/30/2019 18:00	4/30/2019 19:00	878.0
4/30/2019 19:00	4/30/2019 20:00	931.5
4/30/2019 20:00	4/30/2019 21:00	1031.9
4/30/2019 21:00	4/30/2019 22:00	968.4
4/30/2019 22:00	4/30/2019 23:00	902.3
4/30/2019 23:00	5/1/2019 0:00	909.9
5/1/2019 0:00	5/1/2019 1:00	894.8
5/1/2019 1:00	5/1/2019 2:00	851.6
5/1/2019 2:00	5/1/2019 3:00	784.5
5/1/2019 3:00	5/1/2019 4:00	760.5
5/1/2019 4:00	5/1/2019 5:00	782.6
5/1/2019 5:00	5/1/2019 6:00	809.3
5/1/2019 6:00	5/1/2019 7:00	932.5
5/1/2019 7:00	5/1/2019 8:00	980.3
5/1/2019 8:00	5/1/2019 9:00	920.3
5/1/2019 9:00	5/1/2019 10:00	940.5
5/1/2019 10:00	5/1/2019 11:00	948.3
5/1/2019 11:00	5/1/2019 12:00	935.8
5/1/2019 12:00	5/1/2019 13:00	921.4
5/1/2019 13:00	5/1/2019 14:00	887.8
5/1/2019 14:00	5/1/2019 15:00	861.1
5/1/2019 15:00	5/1/2019 16:00	851.0
5/1/2019 16:00	5/1/2019 17:00	859.3
5/1/2019 17:00	5/1/2019 18:00	910.0
5/1/2019 18:00	5/1/2019 19:00	946.8
5/1/2019 19:00	5/1/2019 20:00	1001.9
5/1/2019 20:00	5/1/2019 21:00	1057.0
5/1/2019 21:00	5/1/2019 22:00	1054.7
5/1/2019 22:00	5/1/2019 23:00	1043.1
5/1/2019 23:00	5/2/2019 0:00	1007.3
5/2/2019 0:00	5/2/2019 1:00	954.7
5/2/2019 1:00	5/2/2019 2:00	950.9
5/2/2019 2:00	5/2/2019 3:00	886.7
5/2/2019 3:00	5/2/2019 4:00	885.5
5/2/2019 4:00	5/2/2019 5:00	944.0
5/2/2019 5:00	5/2/2019 6:00	1018.9
5/2/2019 6:00	5/2/2019 7:00	1070.8
5/2/2019 7:00	5/2/2019 8:00	1180.5
5/2/2019 8:00	5/2/2019 9:00	1227.8
5/2/2019 9:00	5/2/2019 10:00	1192.0
5/2/2019 10:00	5/2/2019 11:00	1137.1
5/2/2019 11:00	5/2/2019 12:00	1087.9
5/2/2019 12:00	5/2/2019 13:00	1045.8
5/2/2019 13:00	5/2/2019 14:00	990.5
5/2/2019 14:00	5/2/2019 15:00	931.6
5/2/2019 15:00	5/2/2019 16:00	909.7
5/2/2019 16:00	5/2/2019 17:00	921.8
5/2/2019 17:00	5/2/2019 18:00	948.7
5/2/2019 18:00	5/2/2019 19:00	949.3
5/2/2019 19:00	5/2/2019 20:00	992.2
5/2/2019 20:00	5/2/2019 21:00	1070.3
5/2/2019 21:00	5/2/2019 22:00	1087.2
5/2/2019 22:00	5/2/2019 23:00	1045.6
5/2/2019 23:00	5/3/2019 0:00	1042.9
5/3/2019 0:00	5/3/2019 1:00	1033.4
5/3/2019 1:00	5/3/2019 2:00	1003.5
5/3/2019 2:00	5/3/2019 3:00	975.3
5/3/2019 3:00	5/3/2019 4:00	987.8
5/3/2019 4:00	5/3/2019 5:00	1015.4
5/3/2019 5:00	5/3/2019 6:00	1080.7
5/3/2019 6:00	5/3/2019 7:00	1160.5
5/3/2019 7:00	5/3/2019 8:00	1222.1
5/3/2019 8:00	5/3/2019 9:00	1211.7
5/3/2019 9:00	5/3/2019 10:00	1173.5
5/3/2019 10:00	5/3/2019 11:00	1132.3
5/3/2019 11:00	5/3/2019 12:00	1091.7
5/3/2019 12:00	5/3/2019 13:00	1067.1

Start Time	End Time	ANL_MW
5/3/2019 13:00	5/3/2019 14:00	1041.0
5/3/2019 14:00	5/3/2019 15:00	1003.6
5/3/2019 15:00	5/3/2019 16:00	972.7
5/3/2019 16:00	5/3/2019 17:00	957.1
5/3/2019 17:00	5/3/2019 18:00	974.9
5/3/2019 18:00	5/3/2019 19:00	980.6
5/3/2019 19:00	5/3/2019 20:00	993.3
5/3/2019 20:00	5/3/2019 21:00	996.7
5/3/2019 21:00	5/3/2019 22:00	973.7
5/3/2019 22:00	5/3/2019 23:00	890.6
5/3/2019 23:00	5/4/2019 0:00	824.4
5/4/2019 0:00	5/4/2019 1:00	812.6
5/4/2019 1:00	5/4/2019 2:00	797.2
5/4/2019 2:00	5/4/2019 3:00	778.1
5/4/2019 3:00	5/4/2019 4:00	783.4
5/4/2019 4:00	5/4/2019 5:00	802.2
5/4/2019 5:00	5/4/2019 6:00	831.4
5/4/2019 6:00	5/4/2019 7:00	872.2
5/4/2019 7:00	5/4/2019 8:00	949.1
5/4/2019 8:00	5/4/2019 9:00	1016.8
5/4/2019 9:00	5/4/2019 10:00	1066.1
5/4/2019 10:00	5/4/2019 11:00	1079.5
5/4/2019 11:00	5/4/2019 12:00	1081.0
5/4/2019 12:00	5/4/2019 13:00	1076.6
5/4/2019 13:00	5/4/2019 14:00	1071.8
5/4/2019 14:00	5/4/2019 15:00	1068.7
5/4/2019 15:00	5/4/2019 16:00	1088.3
5/4/2019 16:00	5/4/2019 17:00	1114.5
5/4/2019 17:00	5/4/2019 18:00	1132.4
5/4/2019 18:00	5/4/2019 19:00	1139.4
5/4/2019 19:00	5/4/2019 20:00	1139.2
5/4/2019 20:00	5/4/2019 21:00	1148.4
5/4/2019 21:00	5/4/2019 22:00	1117.4
5/4/2019 22:00	5/4/2019 23:00	1058.2
5/4/2019 23:00	5/5/2019 0:00	1024.6
5/5/2019 0:00	5/5/2019 1:00	979.0
5/5/2019 1:00	5/5/2019 2:00	982.2
5/5/2019 2:00	5/5/2019 3:00	968.3
5/5/2019 3:00	5/5/2019 4:00	959.4
5/5/2019 4:00	5/5/2019 5:00	973.1
5/5/2019 5:00	5/5/2019 6:00	991.4
5/5/2019 6:00	5/5/2019 7:00	1013.8
5/5/2019 7:00	5/5/2019 8:00	1066.7
5/5/2019 8:00	5/5/2019 9:00	1119.8
5/5/2019 9:00	5/5/2019 10:00	1139.1
5/5/2019 10:00	5/5/2019 11:00	1128.0
5/5/2019 11:00	5/5/2019 12:00	1097.4
5/5/2019 12:00	5/5/2019 13:00	1067.3
5/5/2019 13:00	5/5/2019 14:00	1000.1
5/5/2019 14:00	5/5/2019 15:00	1005.6
5/5/2019 15:00	5/5/2019 16:00	1018.4
5/5/2019 16:00	5/5/2019 17:00	1046.4
5/5/2019 17:00	5/5/2019 18:00	1065.9
5/5/2019 18:00	5/5/2019 19:00	1052.1
5/5/2019 19:00	5/5/2019 20:00	1048.1
5/5/2019 20:00	5/5/2019 21:00	1109.0
5/5/2019 21:00	5/5/2019 22:00	1112.1
5/5/2019 22:00	5/5/2019 23:00	1019.4
5/5/2019 23:00	5/6/2019 0:00	936.1
5/6/2019 0:00	5/6/2019 1:00	907.1
5/6/2019 1:00	5/6/2019 2:00	899.5
5/6/2019 2:00	5/6/2019 3:00	907.2
5/6/2019 3:00	5/6/2019 4:00	925.2
5/6/2019 4:00	5/6/2019 5:00	950.0
5/6/2019 5:00	5/6/2019 6:00	995.1
5/6/2019 6:00	5/6/2019 7:00	1070.3
5/6/2019 7:00	5/6/2019 8:00	1140.8
5/6/2019 8:00	5/6/2019 9:00	1131.6
5/6/2019 9:00	5/6/2019 10:00	1122.8
5/6/2019 10:00	5/6/2019 11:00	1158.0

Start Time	End Time	ANL_MW
5/6/2019 11:00	5/6/2019 12:00	1125.3
5/6/2019 12:00	5/6/2019 13:00	1070.8
5/6/2019 13:00	5/6/2019 14:00	1019.9
5/6/2019 14:00	5/6/2019 15:00	982.3
5/6/2019 15:00	5/6/2019 16:00	1015.1
5/6/2019 16:00	5/6/2019 17:00	1066.1
5/6/2019 17:00	5/6/2019 18:00	1083.3
5/6/2019 18:00	5/6/2019 19:00	1070.8
5/6/2019 19:00	5/6/2019 20:00	1092.5
5/6/2019 20:00	5/6/2019 21:00	1137.7
5/6/2019 21:00	5/6/2019 22:00	1127.1
5/6/2019 22:00	5/6/2019 23:00	1055.0
5/6/2019 23:00	5/7/2019 0:00	1031.9
5/7/2019 0:00	5/7/2019 1:00	1035.5
5/7/2019 1:00	5/7/2019 2:00	1017.5
5/7/2019 2:00	5/7/2019 3:00	1000.5
5/7/2019 3:00	5/7/2019 4:00	1005.6
5/7/2019 4:00	5/7/2019 5:00	1030.7
5/7/2019 5:00	5/7/2019 6:00	1045.1
5/7/2019 6:00	5/7/2019 7:00	1134.2
5/7/2019 7:00	5/7/2019 8:00	1147.1
5/7/2019 8:00	5/7/2019 9:00	1140.8
5/7/2019 9:00	5/7/2019 10:00	1109.9
5/7/2019 10:00	5/7/2019 11:00	1075.8
5/7/2019 11:00	5/7/2019 12:00	1046.3
5/7/2019 12:00	5/7/2019 13:00	1000.2
5/7/2019 13:00	5/7/2019 14:00	935.0
5/7/2019 14:00	5/7/2019 15:00	867.0
5/7/2019 15:00	5/7/2019 16:00	888.9
5/7/2019 16:00	5/7/2019 17:00	960.1
5/7/2019 17:00	5/7/2019 18:00	999.8
5/7/2019 18:00	5/7/2019 19:00	999.8
5/7/2019 19:00	5/7/2019 20:00	936.2
5/7/2019 20:00	5/7/2019 21:00	934.8
5/7/2019 21:00	5/7/2019 22:00	939.0
5/7/2019 22:00	5/7/2019 23:00	849.1
5/7/2019 23:00	5/8/2019 0:00	785.3
5/8/2019 0:00	5/8/2019 1:00	798.6
5/8/2019 1:00	5/8/2019 2:00	836.9
5/8/2019 2:00	5/8/2019 3:00	861.8
5/8/2019 3:00	5/8/2019 4:00	856.3
5/8/2019 4:00	5/8/2019 5:00	838.9
5/8/2019 5:00	5/8/2019 6:00	845.5
5/8/2019 6:00	5/8/2019 7:00	956.0
5/8/2019 7:00	5/8/2019 8:00	1064.1
5/8/2019 8:00	5/8/2019 9:00	1027.3
5/8/2019 9:00	5/8/2019 10:00	986.9
5/8/2019 10:00	5/8/2019 11:00	944.0
5/8/2019 11:00	5/8/2019 12:00	917.5
5/8/2019 12:00	5/8/2019 13:00	894.9
5/8/2019 13:00	5/8/2019 14:00	853.2
5/8/2019 14:00	5/8/2019 15:00	842.2
5/8/2019 15:00	5/8/2019 16:00	852.3
5/8/2019 16:00	5/8/2019 17:00	866.2
5/8/2019 17:00	5/8/2019 18:00	891.4
5/8/2019 18:00	5/8/2019 19:00	933.0
5/8/2019 19:00	5/8/2019 20:00	989.4
5/8/2019 20:00	5/8/2019 21:00	972.3
5/8/2019 21:00	5/8/2019 22:00	911.8
5/8/2019 22:00	5/8/2019 23:00	896.1
5/8/2019 23:00	5/9/2019 0:00	762.7
5/9/2019 0:00	5/9/2019 1:00	660.9
5/9/2019 1:00	5/9/2019 2:00	639.0
5/9/2019 2:00	5/9/2019 3:00	590.1
5/9/2019 3:00	5/9/2019 4:00	567.4
5/9/2019 4:00	5/9/2019 5:00	582.2
5/9/2019 5:00	5/9/2019 6:00	644.9
5/9/2019 6:00	5/9/2019 7:00	772.5
5/9/2019 7:00	5/9/2019 8:00	892.4
5/9/2019 8:00	5/9/2019 9:00	888.1

Start Time	End Time	ANL_MW
5/9/2019 9:00	5/9/2019 10:00	883.2
5/9/2019 10:00	5/9/2019 11:00	889.2
5/9/2019 11:00	5/9/2019 12:00	880.5
5/9/2019 12:00	5/9/2019 13:00	874.0
5/9/2019 13:00	5/9/2019 14:00	839.6
5/9/2019 14:00	5/9/2019 15:00	829.7
5/9/2019 15:00	5/9/2019 16:00	837.8
5/9/2019 16:00	5/9/2019 17:00	870.5
5/9/2019 17:00	5/9/2019 18:00	901.8
5/9/2019 18:00	5/9/2019 19:00	909.6
5/9/2019 19:00	5/9/2019 20:00	957.8
5/9/2019 20:00	5/9/2019 21:00	985.0
5/9/2019 21:00	5/9/2019 22:00	1003.8
5/9/2019 22:00	5/9/2019 23:00	897.7
5/9/2019 23:00	5/10/2019 0:00	884.5
5/10/2019 0:00	5/10/2019 1:00	855.8
5/10/2019 1:00	5/10/2019 2:00	840.7
5/10/2019 2:00	5/10/2019 3:00	835.9
5/10/2019 3:00	5/10/2019 4:00	855.4
5/10/2019 4:00	5/10/2019 5:00	880.4
5/10/2019 5:00	5/10/2019 6:00	949.0
5/10/2019 6:00	5/10/2019 7:00	1073.3
5/10/2019 7:00	5/10/2019 8:00	1187.0
5/10/2019 8:00	5/10/2019 9:00	1223.1
5/10/2019 9:00	5/10/2019 10:00	1200.3
5/10/2019 10:00	5/10/2019 11:00	1165.4
5/10/2019 11:00	5/10/2019 12:00	1143.0
5/10/2019 12:00	5/10/2019 13:00	1123.6
5/10/2019 13:00	5/10/2019 14:00	1094.2
5/10/2019 14:00	5/10/2019 15:00	1073.0
5/10/2019 15:00	5/10/2019 16:00	1095.1
5/10/2019 16:00	5/10/2019 17:00	1123.8
5/10/2019 17:00	5/10/2019 18:00	1141.4
5/10/2019 18:00	5/10/2019 19:00	1095.4
5/10/2019 19:00	5/10/2019 20:00	1056.5
5/10/2019 20:00	5/10/2019 21:00	1024.4
5/10/2019 21:00	5/10/2019 22:00	1000.6
5/10/2019 22:00	5/10/2019 23:00	895.6
5/10/2019 23:00	5/11/2019 0:00	862.5
5/11/2019 0:00	5/11/2019 1:00	822.5
5/11/2019 1:00	5/11/2019 2:00	753.2
5/11/2019 2:00	5/11/2019 3:00	698.4
5/11/2019 3:00	5/11/2019 4:00	751.5
5/11/2019 4:00	5/11/2019 5:00	791.2
5/11/2019 5:00	5/11/2019 6:00	792.3
5/11/2019 6:00	5/11/2019 7:00	865.3
5/11/2019 7:00	5/11/2019 8:00	956.9
5/11/2019 8:00	5/11/2019 9:00	1082.1
5/11/2019 9:00	5/11/2019 10:00	1140.9
5/11/2019 10:00	5/11/2019 11:00	1151.7
5/11/2019 11:00	5/11/2019 12:00	1114.3
5/11/2019 12:00	5/11/2019 13:00	1032.2
5/11/2019 13:00	5/11/2019 14:00	980.1
5/11/2019 14:00	5/11/2019 15:00	995.2
5/11/2019 15:00	5/11/2019 16:00	940.1
5/11/2019 16:00	5/11/2019 17:00	931.3
5/11/2019 17:00	5/11/2019 18:00	935.8
5/11/2019 18:00	5/11/2019 19:00	846.1
5/11/2019 19:00	5/11/2019 20:00	862.7
5/11/2019 20:00	5/11/2019 21:00	917.2
5/11/2019 21:00	5/11/2019 22:00	902.7
5/11/2019 22:00	5/11/2019 23:00	807.5
5/11/2019 23:00	5/12/2019 0:00	712.2
5/12/2019 0:00	5/12/2019 1:00	645.9
5/12/2019 1:00	5/12/2019 2:00	611.1
5/12/2019 2:00	5/12/2019 3:00	585.8
5/12/2019 3:00	5/12/2019 4:00	636.4
5/12/2019 4:00	5/12/2019 5:00	624.9
5/12/2019 5:00	5/12/2019 6:00	611.7
5/12/2019 6:00	5/12/2019 7:00	628.4

Start Time	End Time	ANL_MW
5/12/2019 7:00	5/12/2019 8:00	683.4
5/12/2019 8:00	5/12/2019 9:00	755.2
5/12/2019 9:00	5/12/2019 10:00	874.4
5/12/2019 10:00	5/12/2019 11:00	981.1
5/12/2019 11:00	5/12/2019 12:00	1013.3
5/12/2019 12:00	5/12/2019 13:00	1012.9
5/12/2019 13:00	5/12/2019 14:00	1006.5
5/12/2019 14:00	5/12/2019 15:00	987.7
5/12/2019 15:00	5/12/2019 16:00	987.9
5/12/2019 16:00	5/12/2019 17:00	962.7
5/12/2019 17:00	5/12/2019 18:00	977.9
5/12/2019 18:00	5/12/2019 19:00	1001.7
5/12/2019 19:00	5/12/2019 20:00	1068.7
5/12/2019 20:00	5/12/2019 21:00	1102.4
5/12/2019 21:00	5/12/2019 22:00	1028.3
5/12/2019 22:00	5/12/2019 23:00	951.8
5/12/2019 23:00	5/13/2019 0:00	896.9
5/13/2019 0:00	5/13/2019 1:00	853.8
5/13/2019 1:00	5/13/2019 2:00	829.2
5/13/2019 2:00	5/13/2019 3:00	836.9
5/13/2019 3:00	5/13/2019 4:00	862.0
5/13/2019 4:00	5/13/2019 5:00	886.3
5/13/2019 5:00	5/13/2019 6:00	937.4
5/13/2019 6:00	5/13/2019 7:00	1064.2
5/13/2019 7:00	5/13/2019 8:00	1165.3
5/13/2019 8:00	5/13/2019 9:00	1201.9
5/13/2019 9:00	5/13/2019 10:00	1202.7
5/13/2019 10:00	5/13/2019 11:00	1180.9
5/13/2019 11:00	5/13/2019 12:00	1150.0
5/13/2019 12:00	5/13/2019 13:00	1128.1
5/13/2019 13:00	5/13/2019 14:00	1094.0
5/13/2019 14:00	5/13/2019 15:00	1066.8
5/13/2019 15:00	5/13/2019 16:00	1042.8
5/13/2019 16:00	5/13/2019 17:00	1047.3
5/13/2019 17:00	5/13/2019 18:00	1043.3
5/13/2019 18:00	5/13/2019 19:00	1003.5
5/13/2019 19:00	5/13/2019 20:00	1030.0
5/13/2019 20:00	5/13/2019 21:00	1071.1
5/13/2019 21:00	5/13/2019 22:00	1107.4
5/13/2019 22:00	5/13/2019 23:00	998.4
5/13/2019 23:00	5/14/2019 0:00	941.4
5/14/2019 0:00	5/14/2019 1:00	878.0
5/14/2019 1:00	5/14/2019 2:00	814.5
5/14/2019 2:00	5/14/2019 3:00	784.1
5/14/2019 3:00	5/14/2019 4:00	789.2
5/14/2019 4:00	5/14/2019 5:00	796.7
5/14/2019 5:00	5/14/2019 6:00	847.7
5/14/2019 6:00	5/14/2019 7:00	912.6
5/14/2019 7:00	5/14/2019 8:00	986.3
5/14/2019 8:00	5/14/2019 9:00	977.1
5/14/2019 9:00	5/14/2019 10:00	940.3
5/14/2019 10:00	5/14/2019 11:00	909.3
5/14/2019 11:00	5/14/2019 12:00	884.9
5/14/2019 12:00	5/14/2019 13:00	879.0
5/14/2019 13:00	5/14/2019 14:00	867.7
5/14/2019 14:00	5/14/2019 15:00	861.9
5/14/2019 15:00	5/14/2019 16:00	913.2
5/14/2019 16:00	5/14/2019 17:00	1011.8
5/14/2019 17:00	5/14/2019 18:00	1035.1
5/14/2019 18:00	5/14/2019 19:00	1007.1
5/14/2019 19:00	5/14/2019 20:00	971.8
5/14/2019 20:00	5/14/2019 21:00	943.6
5/14/2019 21:00	5/14/2019 22:00	914.7
5/14/2019 22:00	5/14/2019 23:00	841.6
5/14/2019 23:00	5/15/2019 0:00	815.9
5/15/2019 0:00	5/15/2019 1:00	805.5
5/15/2019 1:00	5/15/2019 2:00	762.6
5/15/2019 2:00	5/15/2019 3:00	740.4
5/15/2019 3:00	5/15/2019 4:00	759.9
5/15/2019 4:00	5/15/2019 5:00	772.0

Start Time	End Time	ANL_MW
5/15/2019 5:00	5/15/2019 6:00	835.5
5/15/2019 6:00	5/15/2019 7:00	978.6
5/15/2019 7:00	5/15/2019 8:00	1073.7
5/15/2019 8:00	5/15/2019 9:00	1106.5
5/15/2019 9:00	5/15/2019 10:00	1105.7
5/15/2019 10:00	5/15/2019 11:00	1108.0
5/15/2019 11:00	5/15/2019 12:00	1140.3
5/15/2019 12:00	5/15/2019 13:00	1157.8
5/15/2019 13:00	5/15/2019 14:00	1154.8
5/15/2019 14:00	5/15/2019 15:00	1133.9
5/15/2019 15:00	5/15/2019 16:00	1155.9
5/15/2019 16:00	5/15/2019 17:00	1171.8
5/15/2019 17:00	5/15/2019 18:00	1183.9
5/15/2019 18:00	5/15/2019 19:00	1176.3
5/15/2019 19:00	5/15/2019 20:00	1179.8
5/15/2019 20:00	5/15/2019 21:00	1185.4
5/15/2019 21:00	5/15/2019 22:00	1158.7
5/15/2019 22:00	5/15/2019 23:00	1077.2
5/15/2019 23:00	5/16/2019 0:00	1026.4
5/16/2019 0:00	5/16/2019 1:00	986.8
5/16/2019 1:00	5/16/2019 2:00	976.5
5/16/2019 2:00	5/16/2019 3:00	961.5
5/16/2019 3:00	5/16/2019 4:00	930.5
5/16/2019 4:00	5/16/2019 5:00	921.0
5/16/2019 5:00	5/16/2019 6:00	958.8
5/16/2019 6:00	5/16/2019 7:00	1078.0
5/16/2019 7:00	5/16/2019 8:00	1127.3
5/16/2019 8:00	5/16/2019 9:00	1157.4
5/16/2019 9:00	5/16/2019 10:00	1143.7
5/16/2019 10:00	5/16/2019 11:00	1115.2
5/16/2019 11:00	5/16/2019 12:00	1127.8
5/16/2019 12:00	5/16/2019 13:00	1130.6
5/16/2019 13:00	5/16/2019 14:00	1112.5
5/16/2019 14:00	5/16/2019 15:00	1102.1
5/16/2019 15:00	5/16/2019 16:00	1101.9
5/16/2019 16:00	5/16/2019 17:00	1149.1
5/16/2019 17:00	5/16/2019 18:00	1127.5
5/16/2019 18:00	5/16/2019 19:00	1097.8
5/16/2019 19:00	5/16/2019 20:00	1112.5
5/16/2019 20:00	5/16/2019 21:00	1134.6
5/16/2019 21:00	5/16/2019 22:00	1110.0
5/16/2019 22:00	5/16/2019 23:00	1062.0
5/16/2019 23:00	5/17/2019 0:00	1023.2
5/17/2019 0:00	5/17/2019 1:00	987.2
5/17/2019 1:00	5/17/2019 2:00	972.0
5/17/2019 2:00	5/17/2019 3:00	971.6
5/17/2019 3:00	5/17/2019 4:00	981.8
5/17/2019 4:00	5/17/2019 5:00	966.1
5/17/2019 5:00	5/17/2019 6:00	995.5
5/17/2019 6:00	5/17/2019 7:00	1096.0
5/17/2019 7:00	5/17/2019 8:00	1181.2
5/17/2019 8:00	5/17/2019 9:00	1201.8
5/17/2019 9:00	5/17/2019 10:00	1197.4
5/17/2019 10:00	5/17/2019 11:00	1165.0
5/17/2019 11:00	5/17/2019 12:00	1131.5
5/17/2019 12:00	5/17/2019 13:00	1085.7
5/17/2019 13:00	5/17/2019 14:00	1049.2
5/17/2019 14:00	5/17/2019 15:00	1029.0
5/17/2019 15:00	5/17/2019 16:00	1031.2
5/17/2019 16:00	5/17/2019 17:00	1113.4
5/17/2019 17:00	5/17/2019 18:00	1141.7
5/17/2019 18:00	5/17/2019 19:00	1120.0
5/17/2019 19:00	5/17/2019 20:00	1114.1
5/17/2019 20:00	5/17/2019 21:00	1107.9
5/17/2019 21:00	5/17/2019 22:00	1103.2
5/17/2019 22:00	5/17/2019 23:00	1040.6
5/17/2019 23:00	5/18/2019 0:00	957.3
5/18/2019 0:00	5/18/2019 1:00	914.8
5/18/2019 1:00	5/18/2019 2:00	888.9
5/18/2019 2:00	5/18/2019 3:00	842.6

Start Time	End Time	ANL_MW
5/18/2019 3:00	5/18/2019 4:00	841.1
5/18/2019 4:00	5/18/2019 5:00	899.7
5/18/2019 5:00	5/18/2019 6:00	860.3
5/18/2019 6:00	5/18/2019 7:00	878.6
5/18/2019 7:00	5/18/2019 8:00	934.8
5/18/2019 8:00	5/18/2019 9:00	968.6
5/18/2019 9:00	5/18/2019 10:00	993.6
5/18/2019 10:00	5/18/2019 11:00	986.1
5/18/2019 11:00	5/18/2019 12:00	926.6
5/18/2019 12:00	5/18/2019 13:00	859.9
5/18/2019 13:00	5/18/2019 14:00	777.0
5/18/2019 14:00	5/18/2019 15:00	729.1
5/18/2019 15:00	5/18/2019 16:00	736.6
5/18/2019 16:00	5/18/2019 17:00	782.5
5/18/2019 17:00	5/18/2019 18:00	814.1
5/18/2019 18:00	5/18/2019 19:00	823.6
5/18/2019 19:00	5/18/2019 20:00	833.0
5/18/2019 20:00	5/18/2019 21:00	898.5
5/18/2019 21:00	5/18/2019 22:00	950.9
5/18/2019 22:00	5/18/2019 23:00	951.0
5/18/2019 23:00	5/19/2019 0:00	903.4
5/19/2019 0:00	5/19/2019 1:00	899.2
5/19/2019 1:00	5/19/2019 2:00	868.2
5/19/2019 2:00	5/19/2019 3:00	858.8
5/19/2019 3:00	5/19/2019 4:00	863.0
5/19/2019 4:00	5/19/2019 5:00	839.3
5/19/2019 5:00	5/19/2019 6:00	813.9
5/19/2019 6:00	5/19/2019 7:00	842.7
5/19/2019 7:00	5/19/2019 8:00	919.0
5/19/2019 8:00	5/19/2019 9:00	1022.2
5/19/2019 9:00	5/19/2019 10:00	1078.5
5/19/2019 10:00	5/19/2019 11:00	1056.6
5/19/2019 11:00	5/19/2019 12:00	1032.0
5/19/2019 12:00	5/19/2019 13:00	1004.2
5/19/2019 13:00	5/19/2019 14:00	965.7
5/19/2019 14:00	5/19/2019 15:00	903.5
5/19/2019 15:00	5/19/2019 16:00	889.6
5/19/2019 16:00	5/19/2019 17:00	915.7
5/19/2019 17:00	5/19/2019 18:00	980.2
5/19/2019 18:00	5/19/2019 19:00	1007.7
5/19/2019 19:00	5/19/2019 20:00	1012.3
5/19/2019 20:00	5/19/2019 21:00	1029.1
5/19/2019 21:00	5/19/2019 22:00	1033.7
5/19/2019 22:00	5/19/2019 23:00	968.6
5/19/2019 23:00	5/20/2019 0:00	895.3
5/20/2019 0:00	5/20/2019 1:00	850.4
5/20/2019 1:00	5/20/2019 2:00	815.5
5/20/2019 2:00	5/20/2019 3:00	802.9
5/20/2019 3:00	5/20/2019 4:00	787.0
5/20/2019 4:00	5/20/2019 5:00	791.9
5/20/2019 5:00	5/20/2019 6:00	772.4
5/20/2019 6:00	5/20/2019 7:00	777.4
5/20/2019 7:00	5/20/2019 8:00	820.5
5/20/2019 8:00	5/20/2019 9:00	880.0
5/20/2019 9:00	5/20/2019 10:00	984.9
5/20/2019 10:00	5/20/2019 11:00	1055.6
5/20/2019 11:00	5/20/2019 12:00	1072.0
5/20/2019 12:00	5/20/2019 13:00	1097.0
5/20/2019 13:00	5/20/2019 14:00	1077.7
5/20/2019 14:00	5/20/2019 15:00	1020.2
5/20/2019 15:00	5/20/2019 16:00	1000.6
5/20/2019 16:00	5/20/2019 17:00	1150.8
5/20/2019 17:00	5/20/2019 18:00	1216.3
5/20/2019 18:00	5/20/2019 19:00	1216.5
5/20/2019 19:00	5/20/2019 20:00	1140.7
5/20/2019 20:00	5/20/2019 21:00	1126.2
5/20/2019 21:00	5/20/2019 22:00	1092.0
5/20/2019 22:00	5/20/2019 23:00	1000.4
5/20/2019 23:00	5/21/2019 0:00	900.1
5/21/2019 0:00	5/21/2019 1:00	831.5

Start Time	End Time	ANL_MW
5/21/2019 1:00	5/21/2019 2:00	828.4
5/21/2019 2:00	5/21/2019 3:00	808.6
5/21/2019 3:00	5/21/2019 4:00	771.5
5/21/2019 4:00	5/21/2019 5:00	796.3
5/21/2019 5:00	5/21/2019 6:00	839.0
5/21/2019 6:00	5/21/2019 7:00	966.2
5/21/2019 7:00	5/21/2019 8:00	1088.2
5/21/2019 8:00	5/21/2019 9:00	1113.5
5/21/2019 9:00	5/21/2019 10:00	1112.3
5/21/2019 10:00	5/21/2019 11:00	1129.3
5/21/2019 11:00	5/21/2019 12:00	1112.2
5/21/2019 12:00	5/21/2019 13:00	1102.7
5/21/2019 13:00	5/21/2019 14:00	1031.2
5/21/2019 14:00	5/21/2019 15:00	999.4
5/21/2019 15:00	5/21/2019 16:00	977.8
5/21/2019 16:00	5/21/2019 17:00	999.5
5/21/2019 17:00	5/21/2019 18:00	930.0
5/21/2019 18:00	5/21/2019 19:00	851.6
5/21/2019 19:00	5/21/2019 20:00	808.9
5/21/2019 20:00	5/21/2019 21:00	864.7
5/21/2019 21:00	5/21/2019 22:00	910.5
5/21/2019 22:00	5/21/2019 23:00	782.2
5/21/2019 23:00	5/22/2019 0:00	701.6
5/22/2019 0:00	5/22/2019 1:00	675.6
5/22/2019 1:00	5/22/2019 2:00	642.1
5/22/2019 2:00	5/22/2019 3:00	593.4
5/22/2019 3:00	5/22/2019 4:00	573.9
5/22/2019 4:00	5/22/2019 5:00	585.9
5/22/2019 5:00	5/22/2019 6:00	632.7
5/22/2019 6:00	5/22/2019 7:00	754.9
5/22/2019 7:00	5/22/2019 8:00	887.6
5/22/2019 8:00	5/22/2019 9:00	924.8
5/22/2019 9:00	5/22/2019 10:00	936.3
5/22/2019 10:00	5/22/2019 11:00	942.5
5/22/2019 11:00	5/22/2019 12:00	923.0
5/22/2019 12:00	5/22/2019 13:00	927.2
5/22/2019 13:00	5/22/2019 14:00	894.5
5/22/2019 14:00	5/22/2019 15:00	874.3
5/22/2019 15:00	5/22/2019 16:00	862.1
5/22/2019 16:00	5/22/2019 17:00	884.1
5/22/2019 17:00	5/22/2019 18:00	898.5
5/22/2019 18:00	5/22/2019 19:00	877.3
5/22/2019 19:00	5/22/2019 20:00	886.4
5/22/2019 20:00	5/22/2019 21:00	931.2
5/22/2019 21:00	5/22/2019 22:00	1001.9
5/22/2019 22:00	5/22/2019 23:00	947.1
5/22/2019 23:00	5/23/2019 0:00	892.5
5/23/2019 0:00	5/23/2019 1:00	864.3
5/23/2019 1:00	5/23/2019 2:00	833.0
5/23/2019 2:00	5/23/2019 3:00	818.5
5/23/2019 3:00	5/23/2019 4:00	817.0
5/23/2019 4:00	5/23/2019 5:00	793.1
5/23/2019 5:00	5/23/2019 6:00	778.8
5/23/2019 6:00	5/23/2019 7:00	883.7
5/23/2019 7:00	5/23/2019 8:00	997.0
5/23/2019 8:00	5/23/2019 9:00	1057.6
5/23/2019 9:00	5/23/2019 10:00	1065.5
5/23/2019 10:00	5/23/2019 11:00	1028.0
5/23/2019 11:00	5/23/2019 12:00	964.7
5/23/2019 12:00	5/23/2019 13:00	921.8
5/23/2019 13:00	5/23/2019 14:00	914.4
5/23/2019 14:00	5/23/2019 15:00	937.9
5/23/2019 15:00	5/23/2019 16:00	949.6
5/23/2019 16:00	5/23/2019 17:00	980.8
5/23/2019 17:00	5/23/2019 18:00	1007.8
5/23/2019 18:00	5/23/2019 19:00	1003.4
5/23/2019 19:00	5/23/2019 20:00	1006.4
5/23/2019 20:00	5/23/2019 21:00	1057.1
5/23/2019 21:00	5/23/2019 22:00	1070.9
5/23/2019 22:00	5/23/2019 23:00	1001.3

Start Time	End Time	ANL_MW
5/23/2019 23:00	5/24/2019 0:00	910.5
5/24/2019 0:00	5/24/2019 1:00	892.8
5/24/2019 1:00	5/24/2019 2:00	894.4
5/24/2019 2:00	5/24/2019 3:00	838.2
5/24/2019 3:00	5/24/2019 4:00	802.4
5/24/2019 4:00	5/24/2019 5:00	792.4
5/24/2019 5:00	5/24/2019 6:00	805.6
5/24/2019 6:00	5/24/2019 7:00	901.9
5/24/2019 7:00	5/24/2019 8:00	1051.1
5/24/2019 8:00	5/24/2019 9:00	1091.4
5/24/2019 9:00	5/24/2019 10:00	1083.2
5/24/2019 10:00	5/24/2019 11:00	1114.0
5/24/2019 11:00	5/24/2019 12:00	1070.7
5/24/2019 12:00	5/24/2019 13:00	1054.8
5/24/2019 13:00	5/24/2019 14:00	990.9
5/24/2019 14:00	5/24/2019 15:00	953.7
5/24/2019 15:00	5/24/2019 16:00	946.3
5/24/2019 16:00	5/24/2019 17:00	1011.3
5/24/2019 17:00	5/24/2019 18:00	1041.2
5/24/2019 18:00	5/24/2019 19:00	1056.7
5/24/2019 19:00	5/24/2019 20:00	1096.5
5/24/2019 20:00	5/24/2019 21:00	1067.9
5/24/2019 21:00	5/24/2019 22:00	1078.9
5/24/2019 22:00	5/24/2019 23:00	1015.9
5/24/2019 23:00	5/25/2019 0:00	975.2
5/25/2019 0:00	5/25/2019 1:00	938.7
5/25/2019 1:00	5/25/2019 2:00	869.7
5/25/2019 2:00	5/25/2019 3:00	848.7
5/25/2019 3:00	5/25/2019 4:00	846.7
5/25/2019 4:00	5/25/2019 5:00	878.9
5/25/2019 5:00	5/25/2019 6:00	923.8
5/25/2019 6:00	5/25/2019 7:00	978.1
5/25/2019 7:00	5/25/2019 8:00	1057.9
5/25/2019 8:00	5/25/2019 9:00	1075.4
5/25/2019 9:00	5/25/2019 10:00	1117.6
5/25/2019 10:00	5/25/2019 11:00	1119.9
5/25/2019 11:00	5/25/2019 12:00	1086.8
5/25/2019 12:00	5/25/2019 13:00	1052.5
5/25/2019 13:00	5/25/2019 14:00	1006.1
5/25/2019 14:00	5/25/2019 15:00	966.8
5/25/2019 15:00	5/25/2019 16:00	939.8
5/25/2019 16:00	5/25/2019 17:00	969.3
5/25/2019 17:00	5/25/2019 18:00	989.8
5/25/2019 18:00	5/25/2019 19:00	1051.8
5/25/2019 19:00	5/25/2019 20:00	1066.2
5/25/2019 20:00	5/25/2019 21:00	1072.0
5/25/2019 21:00	5/25/2019 22:00	1084.4
5/25/2019 22:00	5/25/2019 23:00	1034.3
5/25/2019 23:00	5/26/2019 0:00	977.6
5/26/2019 0:00	5/26/2019 1:00	919.4
5/26/2019 1:00	5/26/2019 2:00	861.2
5/26/2019 2:00	5/26/2019 3:00	808.9
5/26/2019 3:00	5/26/2019 4:00	772.8
5/26/2019 4:00	5/26/2019 5:00	776.5
5/26/2019 5:00	5/26/2019 6:00	800.1
5/26/2019 6:00	5/26/2019 7:00	847.6
5/26/2019 7:00	5/26/2019 8:00	932.1
5/26/2019 8:00	5/26/2019 9:00	953.1
5/26/2019 9:00	5/26/2019 10:00	1008.2
5/26/2019 10:00	5/26/2019 11:00	1027.4
5/26/2019 11:00	5/26/2019 12:00	1033.9
5/26/2019 12:00	5/26/2019 13:00	1050.0
5/26/2019 13:00	5/26/2019 14:00	953.4
5/26/2019 14:00	5/26/2019 15:00	887.2
5/26/2019 15:00	5/26/2019 16:00	934.1
5/26/2019 16:00	5/26/2019 17:00	982.0
5/26/2019 17:00	5/26/2019 18:00	994.0
5/26/2019 18:00	5/26/2019 19:00	993.6
5/26/2019 19:00	5/26/2019 20:00	995.3
5/26/2019 20:00	5/26/2019 21:00	997.4

Start Time	End Time	ANL_MW
5/26/2019 21:00	5/26/2019 22:00	1012.9
5/26/2019 22:00	5/26/2019 23:00	959.8
5/26/2019 23:00	5/27/2019 0:00	877.5
5/27/2019 0:00	5/27/2019 1:00	859.4
5/27/2019 1:00	5/27/2019 2:00	868.2
5/27/2019 2:00	5/27/2019 3:00	871.7
5/27/2019 3:00	5/27/2019 4:00	868.4
5/27/2019 4:00	5/27/2019 5:00	841.7
5/27/2019 5:00	5/27/2019 6:00	909.3
5/27/2019 6:00	5/27/2019 7:00	1065.2
5/27/2019 7:00	5/27/2019 8:00	1181.3
5/27/2019 8:00	5/27/2019 9:00	1224.4
5/27/2019 9:00	5/27/2019 10:00	1233.0
5/27/2019 10:00	5/27/2019 11:00	1215.0
5/27/2019 11:00	5/27/2019 12:00	1206.5
5/27/2019 12:00	5/27/2019 13:00	1206.5
5/27/2019 13:00	5/27/2019 14:00	1188.2
5/27/2019 14:00	5/27/2019 15:00	1172.6
5/27/2019 15:00	5/27/2019 16:00	1177.9
5/27/2019 16:00	5/27/2019 17:00	1231.7
5/27/2019 17:00	5/27/2019 18:00	1312.8
5/27/2019 18:00	5/27/2019 19:00	1253.0
5/27/2019 19:00	5/27/2019 20:00	1252.3
5/27/2019 20:00	5/27/2019 21:00	1240.6
5/27/2019 21:00	5/27/2019 22:00	1200.7
5/27/2019 22:00	5/27/2019 23:00	1092.5
5/27/2019 23:00	5/28/2019 0:00	1054.3
5/28/2019 0:00	5/28/2019 1:00	1029.3
5/28/2019 1:00	5/28/2019 2:00	949.2
5/28/2019 2:00	5/28/2019 3:00	840.6
5/28/2019 3:00	5/28/2019 4:00	793.2
5/28/2019 4:00	5/28/2019 5:00	854.0
5/28/2019 5:00	5/28/2019 6:00	914.8
5/28/2019 6:00	5/28/2019 7:00	1051.3
5/28/2019 7:00	5/28/2019 8:00	1187.9
5/28/2019 8:00	5/28/2019 9:00	1200.1
5/28/2019 9:00	5/28/2019 10:00	1151.0
5/28/2019 10:00	5/28/2019 11:00	1121.6
5/28/2019 11:00	5/28/2019 12:00	1115.8
5/28/2019 12:00	5/28/2019 13:00	1119.5
5/28/2019 13:00	5/28/2019 14:00	1109.9
5/28/2019 14:00	5/28/2019 15:00	1075.7
5/28/2019 15:00	5/28/2019 16:00	1041.6
5/28/2019 16:00	5/28/2019 17:00	1081.4
5/28/2019 17:00	5/28/2019 18:00	1106.0
5/28/2019 18:00	5/28/2019 19:00	1096.2
5/28/2019 19:00	5/28/2019 20:00	1117.1
5/28/2019 20:00	5/28/2019 21:00	1134.4
5/28/2019 21:00	5/28/2019 22:00	1141.5
5/28/2019 22:00	5/28/2019 23:00	1049.3
5/28/2019 23:00	5/29/2019 0:00	967.2
5/29/2019 0:00	5/29/2019 1:00	944.3
5/29/2019 1:00	5/29/2019 2:00	932.3
5/29/2019 2:00	5/29/2019 3:00	920.0
5/29/2019 3:00	5/29/2019 4:00	923.9
5/29/2019 4:00	5/29/2019 5:00	929.9
5/29/2019 5:00	5/29/2019 6:00	937.9
5/29/2019 6:00	5/29/2019 7:00	1043.5
5/29/2019 7:00	5/29/2019 8:00	1152.9
5/29/2019 8:00	5/29/2019 9:00	1168.3
5/29/2019 9:00	5/29/2019 10:00	1136.5
5/29/2019 10:00	5/29/2019 11:00	1111.2
5/29/2019 11:00	5/29/2019 12:00	1070.0
5/29/2019 12:00	5/29/2019 13:00	1025.2
5/29/2019 13:00	5/29/2019 14:00	1003.8
5/29/2019 14:00	5/29/2019 15:00	974.1
5/29/2019 15:00	5/29/2019 16:00	1019.5
5/29/2019 16:00	5/29/2019 17:00	1104.5
5/29/2019 17:00	5/29/2019 18:00	1169.1
5/29/2019 18:00	5/29/2019 19:00	1168.2

Start Time	End Time	ANL_MW
5/29/2019 19:00	5/29/2019 20:00	1151.7
5/29/2019 20:00	5/29/2019 21:00	1169.2
5/29/2019 21:00	5/29/2019 22:00	1179.5
5/29/2019 22:00	5/29/2019 23:00	1106.6
5/29/2019 23:00	5/30/2019 0:00	1046.7
5/30/2019 0:00	5/30/2019 1:00	993.1
5/30/2019 1:00	5/30/2019 2:00	959.6
5/30/2019 2:00	5/30/2019 3:00	931.5
5/30/2019 3:00	5/30/2019 4:00	925.9
5/30/2019 4:00	5/30/2019 5:00	935.8
5/30/2019 5:00	5/30/2019 6:00	984.3
5/30/2019 6:00	5/30/2019 7:00	1086.6
5/30/2019 7:00	5/30/2019 8:00	1187.4
5/30/2019 8:00	5/30/2019 9:00	1187.7
5/30/2019 9:00	5/30/2019 10:00	1153.2
5/30/2019 10:00	5/30/2019 11:00	1133.9
5/30/2019 11:00	5/30/2019 12:00	1117.9
5/30/2019 12:00	5/30/2019 13:00	1098.4
5/30/2019 13:00	5/30/2019 14:00	1075.0
5/30/2019 14:00	5/30/2019 15:00	1038.2
5/30/2019 15:00	5/30/2019 16:00	1023.5
5/30/2019 16:00	5/30/2019 17:00	1022.5
5/30/2019 17:00	5/30/2019 18:00	1030.4
5/30/2019 18:00	5/30/2019 19:00	1035.8
5/30/2019 19:00	5/30/2019 20:00	1046.1
5/30/2019 20:00	5/30/2019 21:00	1050.3
5/30/2019 21:00	5/30/2019 22:00	1086.6
5/30/2019 22:00	5/30/2019 23:00	1013.2
5/30/2019 23:00	5/31/2019 0:00	931.2
5/31/2019 0:00	5/31/2019 1:00	874.4
5/31/2019 1:00	5/31/2019 2:00	839.0
5/31/2019 2:00	5/31/2019 3:00	815.7
5/31/2019 3:00	5/31/2019 4:00	804.1
5/31/2019 4:00	5/31/2019 5:00	781.5
5/31/2019 5:00	5/31/2019 6:00	817.4
5/31/2019 6:00	5/31/2019 7:00	921.8
5/31/2019 7:00	5/31/2019 8:00	1041.5
5/31/2019 8:00	5/31/2019 9:00	1095.8
5/31/2019 9:00	5/31/2019 10:00	1126.7
5/31/2019 10:00	5/31/2019 11:00	1126.6
5/31/2019 11:00	5/31/2019 12:00	1147.1
5/31/2019 12:00	5/31/2019 13:00	1201.4
5/31/2019 13:00	5/31/2019 14:00	1177.7
5/31/2019 14:00	5/31/2019 15:00	1181.3
5/31/2019 15:00	5/31/2019 16:00	1183.8
5/31/2019 16:00	5/31/2019 17:00	1164.8
5/31/2019 17:00	5/31/2019 18:00	1173.5
5/31/2019 18:00	5/31/2019 19:00	1141.6
5/31/2019 19:00	5/31/2019 20:00	1119.2
5/31/2019 20:00	5/31/2019 21:00	1133.1
5/31/2019 21:00	5/31/2019 22:00	1144.9
5/31/2019 22:00	5/31/2019 23:00	1104.9
5/31/2019 23:00	6/1/2019 0:00	1084.7
6/1/2019 0:00	6/1/2019 1:00	1040.0
6/1/2019 1:00	6/1/2019 2:00	981.1
6/1/2019 2:00	6/1/2019 3:00	966.5
6/1/2019 3:00	6/1/2019 4:00	977.2
6/1/2019 4:00	6/1/2019 5:00	997.9
6/1/2019 5:00	6/1/2019 6:00	1023.4
6/1/2019 6:00	6/1/2019 7:00	1016.4
6/1/2019 7:00	6/1/2019 8:00	1072.1
6/1/2019 8:00	6/1/2019 9:00	1128.9
6/1/2019 9:00	6/1/2019 10:00	1143.4
6/1/2019 10:00	6/1/2019 11:00	1109.4
6/1/2019 11:00	6/1/2019 12:00	1048.8
6/1/2019 12:00	6/1/2019 13:00	1002.2
6/1/2019 13:00	6/1/2019 14:00	993.3
6/1/2019 14:00	6/1/2019 15:00	955.4
6/1/2019 15:00	6/1/2019 16:00	959.7
6/1/2019 16:00	6/1/2019 17:00	984.2

Start Time	End Time	ANL_MW
6/1/2019 17:00	6/1/2019 18:00	995.8
6/1/2019 18:00	6/1/2019 19:00	1014.7
6/1/2019 19:00	6/1/2019 20:00	1016.5
6/1/2019 20:00	6/1/2019 21:00	1040.3
6/1/2019 21:00	6/1/2019 22:00	1045.7
6/1/2019 22:00	6/1/2019 23:00	996.7
6/1/2019 23:00	6/2/2019 0:00	918.0
6/2/2019 0:00	6/2/2019 1:00	817.9
6/2/2019 1:00	6/2/2019 2:00	780.6
6/2/2019 2:00	6/2/2019 3:00	759.3
6/2/2019 3:00	6/2/2019 4:00	740.5
6/2/2019 4:00	6/2/2019 5:00	724.3
6/2/2019 5:00	6/2/2019 6:00	722.1
6/2/2019 6:00	6/2/2019 7:00	706.3
6/2/2019 7:00	6/2/2019 8:00	752.6
6/2/2019 8:00	6/2/2019 9:00	792.7
6/2/2019 9:00	6/2/2019 10:00	792.6
6/2/2019 10:00	6/2/2019 11:00	795.3
6/2/2019 11:00	6/2/2019 12:00	785.3
6/2/2019 12:00	6/2/2019 13:00	802.0
6/2/2019 13:00	6/2/2019 14:00	824.2
6/2/2019 14:00	6/2/2019 15:00	878.4
6/2/2019 15:00	6/2/2019 16:00	911.6
6/2/2019 16:00	6/2/2019 17:00	950.2
6/2/2019 17:00	6/2/2019 18:00	961.7
6/2/2019 18:00	6/2/2019 19:00	964.6
6/2/2019 19:00	6/2/2019 20:00	971.4
6/2/2019 20:00	6/2/2019 21:00	978.4
6/2/2019 21:00	6/2/2019 22:00	977.1
6/2/2019 22:00	6/2/2019 23:00	896.3
6/2/2019 23:00	6/3/2019 0:00	827.3
6/3/2019 0:00	6/3/2019 1:00	794.9
6/3/2019 1:00	6/3/2019 2:00	774.5
6/3/2019 2:00	6/3/2019 3:00	754.6
6/3/2019 3:00	6/3/2019 4:00	731.2
6/3/2019 4:00	6/3/2019 5:00	737.7
6/3/2019 5:00	6/3/2019 6:00	796.1
6/3/2019 6:00	6/3/2019 7:00	907.9
6/3/2019 7:00	6/3/2019 8:00	996.8
6/3/2019 8:00	6/3/2019 9:00	1008.1
6/3/2019 9:00	6/3/2019 10:00	1013.0
6/3/2019 10:00	6/3/2019 11:00	969.4
6/3/2019 11:00	6/3/2019 12:00	962.9
6/3/2019 12:00	6/3/2019 13:00	872.6
6/3/2019 13:00	6/3/2019 14:00	803.0
6/3/2019 14:00	6/3/2019 15:00	772.0
6/3/2019 15:00	6/3/2019 16:00	764.0
6/3/2019 16:00	6/3/2019 17:00	805.6
6/3/2019 17:00	6/3/2019 18:00	835.4
6/3/2019 18:00	6/3/2019 19:00	865.3
6/3/2019 19:00	6/3/2019 20:00	846.2
6/3/2019 20:00	6/3/2019 21:00	829.1
6/3/2019 21:00	6/3/2019 22:00	815.7
6/3/2019 22:00	6/3/2019 23:00	736.5
6/3/2019 23:00	6/4/2019 0:00	714.9
6/4/2019 0:00	6/4/2019 1:00	681.5
6/4/2019 1:00	6/4/2019 2:00	662.1
6/4/2019 2:00	6/4/2019 3:00	685.0
6/4/2019 3:00	6/4/2019 4:00	680.8
6/4/2019 4:00	6/4/2019 5:00	702.6
6/4/2019 5:00	6/4/2019 6:00	753.1
6/4/2019 6:00	6/4/2019 7:00	857.5
6/4/2019 7:00	6/4/2019 8:00	983.5
6/4/2019 8:00	6/4/2019 9:00	1038.6
6/4/2019 9:00	6/4/2019 10:00	1032.1
6/4/2019 10:00	6/4/2019 11:00	1008.9
6/4/2019 11:00	6/4/2019 12:00	974.6
6/4/2019 12:00	6/4/2019 13:00	932.6
6/4/2019 13:00	6/4/2019 14:00	889.1
6/4/2019 14:00	6/4/2019 15:00	868.5

Start Time	End Time	ANL_MW
6/4/2019 15:00	6/4/2019 16:00	872.2
6/4/2019 16:00	6/4/2019 17:00	891.9
6/4/2019 17:00	6/4/2019 18:00	885.4
6/4/2019 18:00	6/4/2019 19:00	844.0
6/4/2019 19:00	6/4/2019 20:00	823.7
6/4/2019 20:00	6/4/2019 21:00	845.6
6/4/2019 21:00	6/4/2019 22:00	814.3
6/4/2019 22:00	6/4/2019 23:00	706.5
6/4/2019 23:00	6/5/2019 0:00	594.3
6/5/2019 0:00	6/5/2019 1:00	573.0
6/5/2019 1:00	6/5/2019 2:00	503.2
6/5/2019 2:00	6/5/2019 3:00	488.4
6/5/2019 3:00	6/5/2019 4:00	529.7
6/5/2019 4:00	6/5/2019 5:00	577.0
6/5/2019 5:00	6/5/2019 6:00	627.8
6/5/2019 6:00	6/5/2019 7:00	802.5
6/5/2019 7:00	6/5/2019 8:00	959.0
6/5/2019 8:00	6/5/2019 9:00	1001.7
6/5/2019 9:00	6/5/2019 10:00	975.8
6/5/2019 10:00	6/5/2019 11:00	940.2
6/5/2019 11:00	6/5/2019 12:00	897.4
6/5/2019 12:00	6/5/2019 13:00	825.1
6/5/2019 13:00	6/5/2019 14:00	793.7
6/5/2019 14:00	6/5/2019 15:00	796.7
6/5/2019 15:00	6/5/2019 16:00	842.7
6/5/2019 16:00	6/5/2019 17:00	899.1
6/5/2019 17:00	6/5/2019 18:00	925.6
6/5/2019 18:00	6/5/2019 19:00	938.7
6/5/2019 19:00	6/5/2019 20:00	931.5
6/5/2019 20:00	6/5/2019 21:00	918.2
6/5/2019 21:00	6/5/2019 22:00	896.1
6/5/2019 22:00	6/5/2019 23:00	834.3
6/5/2019 23:00	6/6/2019 0:00	788.4
6/6/2019 0:00	6/6/2019 1:00	743.5
6/6/2019 1:00	6/6/2019 2:00	703.1
6/6/2019 2:00	6/6/2019 3:00	685.9
6/6/2019 3:00	6/6/2019 4:00	669.4
6/6/2019 4:00	6/6/2019 5:00	694.6
6/6/2019 5:00	6/6/2019 6:00	733.9
6/6/2019 6:00	6/6/2019 7:00	819.1
6/6/2019 7:00	6/6/2019 8:00	961.1
6/6/2019 8:00	6/6/2019 9:00	994.4
6/6/2019 9:00	6/6/2019 10:00	925.2
6/6/2019 10:00	6/6/2019 11:00	880.4
6/6/2019 11:00	6/6/2019 12:00	872.9
6/6/2019 12:00	6/6/2019 13:00	856.3
6/6/2019 13:00	6/6/2019 14:00	844.3
6/6/2019 14:00	6/6/2019 15:00	887.7
6/6/2019 15:00	6/6/2019 16:00	938.3
6/6/2019 16:00	6/6/2019 17:00	1021.2
6/6/2019 17:00	6/6/2019 18:00	1070.0
6/6/2019 18:00	6/6/2019 19:00	1076.7
6/6/2019 19:00	6/6/2019 20:00	1073.7
6/6/2019 20:00	6/6/2019 21:00	1067.4
6/6/2019 21:00	6/6/2019 22:00	1042.4
6/6/2019 22:00	6/6/2019 23:00	961.2
6/6/2019 23:00	6/7/2019 0:00	889.8
6/7/2019 0:00	6/7/2019 1:00	815.6
6/7/2019 1:00	6/7/2019 2:00	759.5
6/7/2019 2:00	6/7/2019 3:00	696.9
6/7/2019 3:00	6/7/2019 4:00	667.4
6/7/2019 4:00	6/7/2019 5:00	707.9
6/7/2019 5:00	6/7/2019 6:00	762.2
6/7/2019 6:00	6/7/2019 7:00	885.6
6/7/2019 7:00	6/7/2019 8:00	1035.0
6/7/2019 8:00	6/7/2019 9:00	1082.9
6/7/2019 9:00	6/7/2019 10:00	1091.3
6/7/2019 10:00	6/7/2019 11:00	1087.9
6/7/2019 11:00	6/7/2019 12:00	1085.2
6/7/2019 12:00	6/7/2019 13:00	1066.8

Start Time	End Time	ANL_MW
6/7/2019 13:00	6/7/2019 14:00	1037.0
6/7/2019 14:00	6/7/2019 15:00	991.9
6/7/2019 15:00	6/7/2019 16:00	962.7
6/7/2019 16:00	6/7/2019 17:00	948.2
6/7/2019 17:00	6/7/2019 18:00	980.9
6/7/2019 18:00	6/7/2019 19:00	946.2
6/7/2019 19:00	6/7/2019 20:00	902.7
6/7/2019 20:00	6/7/2019 21:00	876.7
6/7/2019 21:00	6/7/2019 22:00	887.1
6/7/2019 22:00	6/7/2019 23:00	818.7
6/7/2019 23:00	6/8/2019 0:00	767.4
6/8/2019 0:00	6/8/2019 1:00	692.4
6/8/2019 1:00	6/8/2019 2:00	636.8
6/8/2019 2:00	6/8/2019 3:00	568.2
6/8/2019 3:00	6/8/2019 4:00	564.0
6/8/2019 4:00	6/8/2019 5:00	591.4
6/8/2019 5:00	6/8/2019 6:00	598.9
6/8/2019 6:00	6/8/2019 7:00	619.5
6/8/2019 7:00	6/8/2019 8:00	672.0
6/8/2019 8:00	6/8/2019 9:00	752.1
6/8/2019 9:00	6/8/2019 10:00	775.2
6/8/2019 10:00	6/8/2019 11:00	790.9
6/8/2019 11:00	6/8/2019 12:00	776.8
6/8/2019 12:00	6/8/2019 13:00	712.9
6/8/2019 13:00	6/8/2019 14:00	668.3
6/8/2019 14:00	6/8/2019 15:00	663.2
6/8/2019 15:00	6/8/2019 16:00	634.0
6/8/2019 16:00	6/8/2019 17:00	657.2
6/8/2019 17:00	6/8/2019 18:00	734.7
6/8/2019 18:00	6/8/2019 19:00	768.5
6/8/2019 19:00	6/8/2019 20:00	802.9
6/8/2019 20:00	6/8/2019 21:00	846.4
6/8/2019 21:00	6/8/2019 22:00	884.7
6/8/2019 22:00	6/8/2019 23:00	839.1
6/8/2019 23:00	6/9/2019 0:00	776.2
6/9/2019 0:00	6/9/2019 1:00	729.0
6/9/2019 1:00	6/9/2019 2:00	687.1
6/9/2019 2:00	6/9/2019 3:00	664.3
6/9/2019 3:00	6/9/2019 4:00	642.9
6/9/2019 4:00	6/9/2019 5:00	612.8
6/9/2019 5:00	6/9/2019 6:00	638.3
6/9/2019 6:00	6/9/2019 7:00	667.7
6/9/2019 7:00	6/9/2019 8:00	732.4
6/9/2019 8:00	6/9/2019 9:00	845.9
6/9/2019 9:00	6/9/2019 10:00	902.0
6/9/2019 10:00	6/9/2019 11:00	882.6
6/9/2019 11:00	6/9/2019 12:00	830.8
6/9/2019 12:00	6/9/2019 13:00	804.5
6/9/2019 13:00	6/9/2019 14:00	774.1
6/9/2019 14:00	6/9/2019 15:00	758.9
6/9/2019 15:00	6/9/2019 16:00	773.4
6/9/2019 16:00	6/9/2019 17:00	817.6
6/9/2019 17:00	6/9/2019 18:00	863.9
6/9/2019 18:00	6/9/2019 19:00	897.8
6/9/2019 19:00	6/9/2019 20:00	933.8
6/9/2019 20:00	6/9/2019 21:00	945.2
6/9/2019 21:00	6/9/2019 22:00	919.4
6/9/2019 22:00	6/9/2019 23:00	828.2
6/9/2019 23:00	6/10/2019 0:00	704.1
6/10/2019 0:00	6/10/2019 1:00	621.8
6/10/2019 1:00	6/10/2019 2:00	580.6
6/10/2019 2:00	6/10/2019 3:00	584.3
6/10/2019 3:00	6/10/2019 4:00	654.8
6/10/2019 4:00	6/10/2019 5:00	685.5
6/10/2019 5:00	6/10/2019 6:00	723.4
6/10/2019 6:00	6/10/2019 7:00	840.4
6/10/2019 7:00	6/10/2019 8:00	970.1
6/10/2019 8:00	6/10/2019 9:00	1023.3
6/10/2019 9:00	6/10/2019 10:00	1025.0
6/10/2019 10:00	6/10/2019 11:00	1006.6

Start Time	End Time	ANL_MW
6/10/2019 11:00	6/10/2019 12:00	1008.6
6/10/2019 12:00	6/10/2019 13:00	1008.4
6/10/2019 13:00	6/10/2019 14:00	988.5
6/10/2019 14:00	6/10/2019 15:00	949.6
6/10/2019 15:00	6/10/2019 16:00	956.7
6/10/2019 16:00	6/10/2019 17:00	977.9
6/10/2019 17:00	6/10/2019 18:00	982.6
6/10/2019 18:00	6/10/2019 19:00	971.9
6/10/2019 19:00	6/10/2019 20:00	966.7
6/10/2019 20:00	6/10/2019 21:00	962.3
6/10/2019 21:00	6/10/2019 22:00	944.8
6/10/2019 22:00	6/10/2019 23:00	850.6
6/10/2019 23:00	6/11/2019 0:00	768.1
6/11/2019 0:00	6/11/2019 1:00	689.4
6/11/2019 1:00	6/11/2019 2:00	632.5
6/11/2019 2:00	6/11/2019 3:00	597.0
6/11/2019 3:00	6/11/2019 4:00	581.9
6/11/2019 4:00	6/11/2019 5:00	569.5
6/11/2019 5:00	6/11/2019 6:00	602.7
6/11/2019 6:00	6/11/2019 7:00	695.1
6/11/2019 7:00	6/11/2019 8:00	830.3
6/11/2019 8:00	6/11/2019 9:00	933.0
6/11/2019 9:00	6/11/2019 10:00	976.8
6/11/2019 10:00	6/11/2019 11:00	954.0
6/11/2019 11:00	6/11/2019 12:00	908.5
6/11/2019 12:00	6/11/2019 13:00	821.6
6/11/2019 13:00	6/11/2019 14:00	742.5
6/11/2019 14:00	6/11/2019 15:00	678.9
6/11/2019 15:00	6/11/2019 16:00	661.0
6/11/2019 16:00	6/11/2019 17:00	688.1
6/11/2019 17:00	6/11/2019 18:00	708.6
6/11/2019 18:00	6/11/2019 19:00	702.2
6/11/2019 19:00	6/11/2019 20:00	726.6
6/11/2019 20:00	6/11/2019 21:00	770.1
6/11/2019 21:00	6/11/2019 22:00	753.8
6/11/2019 22:00	6/11/2019 23:00	676.1
6/11/2019 23:00	6/12/2019 0:00	593.6
6/12/2019 0:00	6/12/2019 1:00	573.1
6/12/2019 1:00	6/12/2019 2:00	546.9
6/12/2019 2:00	6/12/2019 3:00	463.4
6/12/2019 3:00	6/12/2019 4:00	419.5
6/12/2019 4:00	6/12/2019 5:00	415.3
6/12/2019 5:00	6/12/2019 6:00	446.5
6/12/2019 6:00	6/12/2019 7:00	466.4
6/12/2019 7:00	6/12/2019 8:00	562.4
6/12/2019 8:00	6/12/2019 9:00	599.4
6/12/2019 9:00	6/12/2019 10:00	586.9
6/12/2019 10:00	6/12/2019 11:00	599.4
6/12/2019 11:00	6/12/2019 12:00	603.5
6/12/2019 12:00	6/12/2019 13:00	611.5
6/12/2019 13:00	6/12/2019 14:00	632.4
6/12/2019 14:00	6/12/2019 15:00	651.1
6/12/2019 15:00	6/12/2019 16:00	713.9
6/12/2019 16:00	6/12/2019 17:00	748.4
6/12/2019 17:00	6/12/2019 18:00	754.9
6/12/2019 18:00	6/12/2019 19:00	747.4
6/12/2019 19:00	6/12/2019 20:00	784.4
6/12/2019 20:00	6/12/2019 21:00	813.9
6/12/2019 21:00	6/12/2019 22:00	735.0
6/12/2019 22:00	6/12/2019 23:00	592.4
6/12/2019 23:00	6/13/2019 0:00	507.1
6/13/2019 0:00	6/13/2019 1:00	525.6
6/13/2019 1:00	6/13/2019 2:00	491.5
6/13/2019 2:00	6/13/2019 3:00	476.0
6/13/2019 3:00	6/13/2019 4:00	477.3
6/13/2019 4:00	6/13/2019 5:00	488.5
6/13/2019 5:00	6/13/2019 6:00	511.5
6/13/2019 6:00	6/13/2019 7:00	623.7
6/13/2019 7:00	6/13/2019 8:00	860.8
6/13/2019 8:00	6/13/2019 9:00	992.6

Start Time	End Time	ANL_MW
6/13/2019 9:00	6/13/2019 10:00	1025.4
6/13/2019 10:00	6/13/2019 11:00	1024.5
6/13/2019 11:00	6/13/2019 12:00	1016.3
6/13/2019 12:00	6/13/2019 13:00	978.5
6/13/2019 13:00	6/13/2019 14:00	940.2
6/13/2019 14:00	6/13/2019 15:00	927.1
6/13/2019 15:00	6/13/2019 16:00	917.1
6/13/2019 16:00	6/13/2019 17:00	865.8
6/13/2019 17:00	6/13/2019 18:00	875.3
6/13/2019 18:00	6/13/2019 19:00	874.2
6/13/2019 19:00	6/13/2019 20:00	843.9
6/13/2019 20:00	6/13/2019 21:00	796.4
6/13/2019 21:00	6/13/2019 22:00	714.7
6/13/2019 22:00	6/13/2019 23:00	567.3
6/13/2019 23:00	6/14/2019 0:00	468.7
6/14/2019 0:00	6/14/2019 1:00	401.7
6/14/2019 1:00	6/14/2019 2:00	425.2
6/14/2019 2:00	6/14/2019 3:00	369.9
6/14/2019 3:00	6/14/2019 4:00	370.9
6/14/2019 4:00	6/14/2019 5:00	388.6
6/14/2019 5:00	6/14/2019 6:00	392.5
6/14/2019 6:00	6/14/2019 7:00	484.2
6/14/2019 7:00	6/14/2019 8:00	633.9
6/14/2019 8:00	6/14/2019 9:00	730.0
6/14/2019 9:00	6/14/2019 10:00	767.2
6/14/2019 10:00	6/14/2019 11:00	811.4
6/14/2019 11:00	6/14/2019 12:00	863.3
6/14/2019 12:00	6/14/2019 13:00	890.9
6/14/2019 13:00	6/14/2019 14:00	886.1
6/14/2019 14:00	6/14/2019 15:00	883.9
6/14/2019 15:00	6/14/2019 16:00	861.4
6/14/2019 16:00	6/14/2019 17:00	862.6
6/14/2019 17:00	6/14/2019 18:00	856.5
6/14/2019 18:00	6/14/2019 19:00	853.0
6/14/2019 19:00	6/14/2019 20:00	841.8
6/14/2019 20:00	6/14/2019 21:00	817.9
6/14/2019 21:00	6/14/2019 22:00	808.4
6/14/2019 22:00	6/14/2019 23:00	746.8
6/14/2019 23:00	6/15/2019 0:00	706.4
6/15/2019 0:00	6/15/2019 1:00	667.5
6/15/2019 1:00	6/15/2019 2:00	617.5
6/15/2019 2:00	6/15/2019 3:00	634.1
6/15/2019 3:00	6/15/2019 4:00	666.9
6/15/2019 4:00	6/15/2019 5:00	686.6
6/15/2019 5:00	6/15/2019 6:00	673.2
6/15/2019 6:00	6/15/2019 7:00	695.1
6/15/2019 7:00	6/15/2019 8:00	794.4
6/15/2019 8:00	6/15/2019 9:00	891.2
6/15/2019 9:00	6/15/2019 10:00	967.3
6/15/2019 10:00	6/15/2019 11:00	984.8
6/15/2019 11:00	6/15/2019 12:00	965.0
6/15/2019 12:00	6/15/2019 13:00	920.4
6/15/2019 13:00	6/15/2019 14:00	881.4
6/15/2019 14:00	6/15/2019 15:00	848.5
6/15/2019 15:00	6/15/2019 16:00	851.8
6/15/2019 16:00	6/15/2019 17:00	868.0
6/15/2019 17:00	6/15/2019 18:00	908.0
6/15/2019 18:00	6/15/2019 19:00	905.4
6/15/2019 19:00	6/15/2019 20:00	854.0
6/15/2019 20:00	6/15/2019 21:00	822.1
6/15/2019 21:00	6/15/2019 22:00	772.4
6/15/2019 22:00	6/15/2019 23:00	662.6
6/15/2019 23:00	6/16/2019 0:00	553.9
6/16/2019 0:00	6/16/2019 1:00	492.2
6/16/2019 1:00	6/16/2019 2:00	442.6
6/16/2019 2:00	6/16/2019 3:00	436.4
6/16/2019 3:00	6/16/2019 4:00	459.7
6/16/2019 4:00	6/16/2019 5:00	444.3
6/16/2019 5:00	6/16/2019 6:00	438.1
6/16/2019 6:00	6/16/2019 7:00	477.4

Start Time	End Time	ANL_MW
6/16/2019 7:00	6/16/2019 8:00	555.9
6/16/2019 8:00	6/16/2019 9:00	663.8
6/16/2019 9:00	6/16/2019 10:00	775.1
6/16/2019 10:00	6/16/2019 11:00	859.0
6/16/2019 11:00	6/16/2019 12:00	938.5
6/16/2019 12:00	6/16/2019 13:00	928.9
6/16/2019 13:00	6/16/2019 14:00	878.5
6/16/2019 14:00	6/16/2019 15:00	846.2
6/16/2019 15:00	6/16/2019 16:00	785.6
6/16/2019 16:00	6/16/2019 17:00	798.8
6/16/2019 17:00	6/16/2019 18:00	842.4
6/16/2019 18:00	6/16/2019 19:00	862.4
6/16/2019 19:00	6/16/2019 20:00	881.3
6/16/2019 20:00	6/16/2019 21:00	886.5
6/16/2019 21:00	6/16/2019 22:00	884.9
6/16/2019 22:00	6/16/2019 23:00	835.3
6/16/2019 23:00	6/17/2019 0:00	768.0
6/17/2019 0:00	6/17/2019 1:00	721.5
6/17/2019 1:00	6/17/2019 2:00	689.4
6/17/2019 2:00	6/17/2019 3:00	694.0
6/17/2019 3:00	6/17/2019 4:00	715.9
6/17/2019 4:00	6/17/2019 5:00	730.9
6/17/2019 5:00	6/17/2019 6:00	781.7
6/17/2019 6:00	6/17/2019 7:00	891.2
6/17/2019 7:00	6/17/2019 8:00	1021.8
6/17/2019 8:00	6/17/2019 9:00	1094.5
6/17/2019 9:00	6/17/2019 10:00	1124.2
6/17/2019 10:00	6/17/2019 11:00	1140.1
6/17/2019 11:00	6/17/2019 12:00	1150.8
6/17/2019 12:00	6/17/2019 13:00	1131.2
6/17/2019 13:00	6/17/2019 14:00	1145.6
6/17/2019 14:00	6/17/2019 15:00	1127.1
6/17/2019 15:00	6/17/2019 16:00	1119.8
6/17/2019 16:00	6/17/2019 17:00	1131.7
6/17/2019 17:00	6/17/2019 18:00	1124.4
6/17/2019 18:00	6/17/2019 19:00	1076.7
6/17/2019 19:00	6/17/2019 20:00	1057.5
6/17/2019 20:00	6/17/2019 21:00	1057.1
6/17/2019 21:00	6/17/2019 22:00	986.5
6/17/2019 22:00	6/17/2019 23:00	884.4
6/17/2019 23:00	6/18/2019 0:00	853.5
6/18/2019 0:00	6/18/2019 1:00	788.2
6/18/2019 1:00	6/18/2019 2:00	758.0
6/18/2019 2:00	6/18/2019 3:00	748.2
6/18/2019 3:00	6/18/2019 4:00	739.3
6/18/2019 4:00	6/18/2019 5:00	785.9
6/18/2019 5:00	6/18/2019 6:00	827.5
6/18/2019 6:00	6/18/2019 7:00	931.2
6/18/2019 7:00	6/18/2019 8:00	1073.5
6/18/2019 8:00	6/18/2019 9:00	1109.7
6/18/2019 9:00	6/18/2019 10:00	1119.3
6/18/2019 10:00	6/18/2019 11:00	1103.0
6/18/2019 11:00	6/18/2019 12:00	1059.0
6/18/2019 12:00	6/18/2019 13:00	1058.5
6/18/2019 13:00	6/18/2019 14:00	1043.8
6/18/2019 14:00	6/18/2019 15:00	1030.4
6/18/2019 15:00	6/18/2019 16:00	1032.6
6/18/2019 16:00	6/18/2019 17:00	1065.6
6/18/2019 17:00	6/18/2019 18:00	1069.8
6/18/2019 18:00	6/18/2019 19:00	1117.4
6/18/2019 19:00	6/18/2019 20:00	1128.3
6/18/2019 20:00	6/18/2019 21:00	1089.9
6/18/2019 21:00	6/18/2019 22:00	1086.2
6/18/2019 22:00	6/18/2019 23:00	1005.2
6/18/2019 23:00	6/19/2019 0:00	905.7
6/19/2019 0:00	6/19/2019 1:00	805.9
6/19/2019 1:00	6/19/2019 2:00	767.8
6/19/2019 2:00	6/19/2019 3:00	755.4
6/19/2019 3:00	6/19/2019 4:00	765.3
6/19/2019 4:00	6/19/2019 5:00	784.7

Start Time	End Time	ANL_MW
6/19/2019 5:00	6/19/2019 6:00	827.0
6/19/2019 6:00	6/19/2019 7:00	945.3
6/19/2019 7:00	6/19/2019 8:00	1092.6
6/19/2019 8:00	6/19/2019 9:00	1165.8
6/19/2019 9:00	6/19/2019 10:00	1181.6
6/19/2019 10:00	6/19/2019 11:00	1128.6
6/19/2019 11:00	6/19/2019 12:00	1100.4
6/19/2019 12:00	6/19/2019 13:00	1075.7
6/19/2019 13:00	6/19/2019 14:00	1055.5
6/19/2019 14:00	6/19/2019 15:00	1013.6
6/19/2019 15:00	6/19/2019 16:00	992.4
6/19/2019 16:00	6/19/2019 17:00	1005.5
6/19/2019 17:00	6/19/2019 18:00	1019.5
6/19/2019 18:00	6/19/2019 19:00	982.1
6/19/2019 19:00	6/19/2019 20:00	984.1
6/19/2019 20:00	6/19/2019 21:00	997.8
6/19/2019 21:00	6/19/2019 22:00	992.6
6/19/2019 22:00	6/19/2019 23:00	918.8
6/19/2019 23:00	6/20/2019 0:00	814.0
6/20/2019 0:00	6/20/2019 1:00	733.1
6/20/2019 1:00	6/20/2019 2:00	719.3
6/20/2019 2:00	6/20/2019 3:00	725.6
6/20/2019 3:00	6/20/2019 4:00	732.7
6/20/2019 4:00	6/20/2019 5:00	729.2
6/20/2019 5:00	6/20/2019 6:00	742.7
6/20/2019 6:00	6/20/2019 7:00	799.4
6/20/2019 7:00	6/20/2019 8:00	964.3
6/20/2019 8:00	6/20/2019 9:00	1005.8
6/20/2019 9:00	6/20/2019 10:00	1019.7
6/20/2019 10:00	6/20/2019 11:00	1013.9
6/20/2019 11:00	6/20/2019 12:00	1005.0
6/20/2019 12:00	6/20/2019 13:00	981.3
6/20/2019 13:00	6/20/2019 14:00	973.6
6/20/2019 14:00	6/20/2019 15:00	956.4
6/20/2019 15:00	6/20/2019 16:00	955.4
6/20/2019 16:00	6/20/2019 17:00	972.7
6/20/2019 17:00	6/20/2019 18:00	956.0
6/20/2019 18:00	6/20/2019 19:00	926.4
6/20/2019 19:00	6/20/2019 20:00	925.3
6/20/2019 20:00	6/20/2019 21:00	912.8
6/20/2019 21:00	6/20/2019 22:00	883.1
6/20/2019 22:00	6/20/2019 23:00	782.8
6/20/2019 23:00	6/21/2019 0:00	688.4
6/21/2019 0:00	6/21/2019 1:00	705.4
6/21/2019 1:00	6/21/2019 2:00	727.0
6/21/2019 2:00	6/21/2019 3:00	734.7
6/21/2019 3:00	6/21/2019 4:00	755.8
6/21/2019 4:00	6/21/2019 5:00	733.2
6/21/2019 5:00	6/21/2019 6:00	695.8
6/21/2019 6:00	6/21/2019 7:00	793.2
6/21/2019 7:00	6/21/2019 8:00	914.8
6/21/2019 8:00	6/21/2019 9:00	997.2
6/21/2019 9:00	6/21/2019 10:00	1091.7
6/21/2019 10:00	6/21/2019 11:00	1136.2
6/21/2019 11:00	6/21/2019 12:00	1127.3
6/21/2019 12:00	6/21/2019 13:00	1120.7
6/21/2019 13:00	6/21/2019 14:00	1114.9
6/21/2019 14:00	6/21/2019 15:00	1094.9
6/21/2019 15:00	6/21/2019 16:00	1095.2
6/21/2019 16:00	6/21/2019 17:00	1079.2
6/21/2019 17:00	6/21/2019 18:00	1064.0
6/21/2019 18:00	6/21/2019 19:00	972.9
6/21/2019 19:00	6/21/2019 20:00	867.7
6/21/2019 20:00	6/21/2019 21:00	805.2
6/21/2019 21:00	6/21/2019 22:00	763.1
6/21/2019 22:00	6/21/2019 23:00	684.9
6/21/2019 23:00	6/22/2019 0:00	583.4
6/22/2019 0:00	6/22/2019 1:00	480.2
6/22/2019 1:00	6/22/2019 2:00	423.6
6/22/2019 2:00	6/22/2019 3:00	392.9

Start Time	End Time	ANL_MW
6/22/2019 3:00	6/22/2019 4:00	387.6
6/22/2019 4:00	6/22/2019 5:00	366.4
6/22/2019 5:00	6/22/2019 6:00	368.6
6/22/2019 6:00	6/22/2019 7:00	404.9
6/22/2019 7:00	6/22/2019 8:00	512.1
6/22/2019 8:00	6/22/2019 9:00	572.5
6/22/2019 9:00	6/22/2019 10:00	634.3
6/22/2019 10:00	6/22/2019 11:00	672.6
6/22/2019 11:00	6/22/2019 12:00	696.2
6/22/2019 12:00	6/22/2019 13:00	707.4
6/22/2019 13:00	6/22/2019 14:00	693.5
6/22/2019 14:00	6/22/2019 15:00	704.8
6/22/2019 15:00	6/22/2019 16:00	721.0
6/22/2019 16:00	6/22/2019 17:00	742.2
6/22/2019 17:00	6/22/2019 18:00	825.2
6/22/2019 18:00	6/22/2019 19:00	831.1
6/22/2019 19:00	6/22/2019 20:00	828.7
6/22/2019 20:00	6/22/2019 21:00	816.6
6/22/2019 21:00	6/22/2019 22:00	760.2
6/22/2019 22:00	6/22/2019 23:00	670.1
6/22/2019 23:00	6/23/2019 0:00	579.5
6/23/2019 0:00	6/23/2019 1:00	525.6
6/23/2019 1:00	6/23/2019 2:00	480.3
6/23/2019 2:00	6/23/2019 3:00	435.0
6/23/2019 3:00	6/23/2019 4:00	442.8
6/23/2019 4:00	6/23/2019 5:00	437.1
6/23/2019 5:00	6/23/2019 6:00	411.7
6/23/2019 6:00	6/23/2019 7:00	431.9
6/23/2019 7:00	6/23/2019 8:00	546.2
6/23/2019 8:00	6/23/2019 9:00	667.5
6/23/2019 9:00	6/23/2019 10:00	707.0
6/23/2019 10:00	6/23/2019 11:00	733.6
6/23/2019 11:00	6/23/2019 12:00	691.7
6/23/2019 12:00	6/23/2019 13:00	721.9
6/23/2019 13:00	6/23/2019 14:00	739.7
6/23/2019 14:00	6/23/2019 15:00	692.9
6/23/2019 15:00	6/23/2019 16:00	720.4
6/23/2019 16:00	6/23/2019 17:00	775.7
6/23/2019 17:00	6/23/2019 18:00	821.8
6/23/2019 18:00	6/23/2019 19:00	877.0
6/23/2019 19:00	6/23/2019 20:00	917.5
6/23/2019 20:00	6/23/2019 21:00	953.6
6/23/2019 21:00	6/23/2019 22:00	967.4
6/23/2019 22:00	6/23/2019 23:00	912.7
6/23/2019 23:00	6/24/2019 0:00	865.8
6/24/2019 0:00	6/24/2019 1:00	832.9
6/24/2019 1:00	6/24/2019 2:00	808.1
6/24/2019 2:00	6/24/2019 3:00	768.4
6/24/2019 3:00	6/24/2019 4:00	741.7
6/24/2019 4:00	6/24/2019 5:00	695.6
6/24/2019 5:00	6/24/2019 6:00	779.7
6/24/2019 6:00	6/24/2019 7:00	892.8
6/24/2019 7:00	6/24/2019 8:00	1013.3
6/24/2019 8:00	6/24/2019 9:00	1054.4
6/24/2019 9:00	6/24/2019 10:00	1006.3
6/24/2019 10:00	6/24/2019 11:00	989.0
6/24/2019 11:00	6/24/2019 12:00	966.3
6/24/2019 12:00	6/24/2019 13:00	972.6
6/24/2019 13:00	6/24/2019 14:00	1004.2
6/24/2019 14:00	6/24/2019 15:00	995.5
6/24/2019 15:00	6/24/2019 16:00	985.2
6/24/2019 16:00	6/24/2019 17:00	1006.6
6/24/2019 17:00	6/24/2019 18:00	1037.3
6/24/2019 18:00	6/24/2019 19:00	1024.5
6/24/2019 19:00	6/24/2019 20:00	1019.8
6/24/2019 20:00	6/24/2019 21:00	1034.1
6/24/2019 21:00	6/24/2019 22:00	1056.1
6/24/2019 22:00	6/24/2019 23:00	996.8
6/24/2019 23:00	6/25/2019 0:00	911.9
6/25/2019 0:00	6/25/2019 1:00	852.9

Start Time	End Time	ANL_MW
6/25/2019 1:00	6/25/2019 2:00	854.2
6/25/2019 2:00	6/25/2019 3:00	834.1
6/25/2019 3:00	6/25/2019 4:00	827.8
6/25/2019 4:00	6/25/2019 5:00	824.6
6/25/2019 5:00	6/25/2019 6:00	853.2
6/25/2019 6:00	6/25/2019 7:00	957.8
6/25/2019 7:00	6/25/2019 8:00	1083.2
6/25/2019 8:00	6/25/2019 9:00	1062.4
6/25/2019 9:00	6/25/2019 10:00	1061.8
6/25/2019 10:00	6/25/2019 11:00	1069.4
6/25/2019 11:00	6/25/2019 12:00	1063.8
6/25/2019 12:00	6/25/2019 13:00	1059.4
6/25/2019 13:00	6/25/2019 14:00	1063.2
6/25/2019 14:00	6/25/2019 15:00	1054.8
6/25/2019 15:00	6/25/2019 16:00	1082.6
6/25/2019 16:00	6/25/2019 17:00	1089.1
6/25/2019 17:00	6/25/2019 18:00	1078.9
6/25/2019 18:00	6/25/2019 19:00	1025.7
6/25/2019 19:00	6/25/2019 20:00	1046.9
6/25/2019 20:00	6/25/2019 21:00	1028.2
6/25/2019 21:00	6/25/2019 22:00	1011.4
6/25/2019 22:00	6/25/2019 23:00	912.5
6/25/2019 23:00	6/26/2019 0:00	862.3
6/26/2019 0:00	6/26/2019 1:00	805.2
6/26/2019 1:00	6/26/2019 2:00	746.4
6/26/2019 2:00	6/26/2019 3:00	728.8
6/26/2019 3:00	6/26/2019 4:00	712.7
6/26/2019 4:00	6/26/2019 5:00	739.6
6/26/2019 5:00	6/26/2019 6:00	781.4
6/26/2019 6:00	6/26/2019 7:00	896.9
6/26/2019 7:00	6/26/2019 8:00	998.6
6/26/2019 8:00	6/26/2019 9:00	1073.0
6/26/2019 9:00	6/26/2019 10:00	1110.8
6/26/2019 10:00	6/26/2019 11:00	1118.4
6/26/2019 11:00	6/26/2019 12:00	1123.6
6/26/2019 12:00	6/26/2019 13:00	1114.4
6/26/2019 13:00	6/26/2019 14:00	1104.0
6/26/2019 14:00	6/26/2019 15:00	1047.4
6/26/2019 15:00	6/26/2019 16:00	1030.8
6/26/2019 16:00	6/26/2019 17:00	1050.9
6/26/2019 17:00	6/26/2019 18:00	1045.3
6/26/2019 18:00	6/26/2019 19:00	1021.3
6/26/2019 19:00	6/26/2019 20:00	1004.2
6/26/2019 20:00	6/26/2019 21:00	976.5
6/26/2019 21:00	6/26/2019 22:00	966.5
6/26/2019 22:00	6/26/2019 23:00	875.8
6/26/2019 23:00	6/27/2019 0:00	792.0
6/27/2019 0:00	6/27/2019 1:00	700.4
6/27/2019 1:00	6/27/2019 2:00	652.3
6/27/2019 2:00	6/27/2019 3:00	642.2
6/27/2019 3:00	6/27/2019 4:00	642.2
6/27/2019 4:00	6/27/2019 5:00	635.6
6/27/2019 5:00	6/27/2019 6:00	676.2
6/27/2019 6:00	6/27/2019 7:00	777.2
6/27/2019 7:00	6/27/2019 8:00	878.2
6/27/2019 8:00	6/27/2019 9:00	962.7
6/27/2019 9:00	6/27/2019 10:00	1014.0
6/27/2019 10:00	6/27/2019 11:00	1021.8
6/27/2019 11:00	6/27/2019 12:00	1051.5
6/27/2019 12:00	6/27/2019 13:00	1049.0
6/27/2019 13:00	6/27/2019 14:00	1028.4
6/27/2019 14:00	6/27/2019 15:00	1016.5
6/27/2019 15:00	6/27/2019 16:00	1046.5
6/27/2019 16:00	6/27/2019 17:00	1064.4
6/27/2019 17:00	6/27/2019 18:00	1039.5
6/27/2019 18:00	6/27/2019 19:00	992.3
6/27/2019 19:00	6/27/2019 20:00	953.7
6/27/2019 20:00	6/27/2019 21:00	929.9
6/27/2019 21:00	6/27/2019 22:00	928.6
6/27/2019 22:00	6/27/2019 23:00	879.6

Start Time	End Time	ANL_MW
6/27/2019 23:00	6/28/2019 0:00	829.9
6/28/2019 0:00	6/28/2019 1:00	789.6
6/28/2019 1:00	6/28/2019 2:00	748.9
6/28/2019 2:00	6/28/2019 3:00	745.9
6/28/2019 3:00	6/28/2019 4:00	761.8
6/28/2019 4:00	6/28/2019 5:00	775.1
6/28/2019 5:00	6/28/2019 6:00	787.5
6/28/2019 6:00	6/28/2019 7:00	894.9
6/28/2019 7:00	6/28/2019 8:00	1048.3
6/28/2019 8:00	6/28/2019 9:00	992.7
6/28/2019 9:00	6/28/2019 10:00	1027.6
6/28/2019 10:00	6/28/2019 11:00	1083.0
6/28/2019 11:00	6/28/2019 12:00	1106.5
6/28/2019 12:00	6/28/2019 13:00	1093.1
6/28/2019 13:00	6/28/2019 14:00	1083.3
6/28/2019 14:00	6/28/2019 15:00	1069.7
6/28/2019 15:00	6/28/2019 16:00	1072.5
6/28/2019 16:00	6/28/2019 17:00	1080.2
6/28/2019 17:00	6/28/2019 18:00	1081.9
6/28/2019 18:00	6/28/2019 19:00	1051.3
6/28/2019 19:00	6/28/2019 20:00	1033.4
6/28/2019 20:00	6/28/2019 21:00	1011.4
6/28/2019 21:00	6/28/2019 22:00	1004.3
6/28/2019 22:00	6/28/2019 23:00	946.7
6/28/2019 23:00	6/29/2019 0:00	886.3
6/29/2019 0:00	6/29/2019 1:00	814.4
6/29/2019 1:00	6/29/2019 2:00	799.0
6/29/2019 2:00	6/29/2019 3:00	761.6
6/29/2019 3:00	6/29/2019 4:00	747.9
6/29/2019 4:00	6/29/2019 5:00	754.9
6/29/2019 5:00	6/29/2019 6:00	742.2
6/29/2019 6:00	6/29/2019 7:00	760.2
6/29/2019 7:00	6/29/2019 8:00	862.2
6/29/2019 8:00	6/29/2019 9:00	987.0
6/29/2019 9:00	6/29/2019 10:00	1070.3
6/29/2019 10:00	6/29/2019 11:00	1106.5
6/29/2019 11:00	6/29/2019 12:00	1124.3
6/29/2019 12:00	6/29/2019 13:00	1100.9
6/29/2019 13:00	6/29/2019 14:00	1034.7
6/29/2019 14:00	6/29/2019 15:00	1004.7
6/29/2019 15:00	6/29/2019 16:00	982.7
6/29/2019 16:00	6/29/2019 17:00	986.3
6/29/2019 17:00	6/29/2019 18:00	987.7
6/29/2019 18:00	6/29/2019 19:00	969.3
6/29/2019 19:00	6/29/2019 20:00	977.1
6/29/2019 20:00	6/29/2019 21:00	980.2
6/29/2019 21:00	6/29/2019 22:00	972.5
6/29/2019 22:00	6/29/2019 23:00	928.4
6/29/2019 23:00	6/30/2019 0:00	879.9
6/30/2019 0:00	6/30/2019 1:00	868.7
6/30/2019 1:00	6/30/2019 2:00	849.7
6/30/2019 2:00	6/30/2019 3:00	833.4
6/30/2019 3:00	6/30/2019 4:00	824.9
6/30/2019 4:00	6/30/2019 5:00	822.6
6/30/2019 5:00	6/30/2019 6:00	803.9
6/30/2019 6:00	6/30/2019 7:00	795.3
6/30/2019 7:00	6/30/2019 8:00	835.3
6/30/2019 8:00	6/30/2019 9:00	901.3
6/30/2019 9:00	6/30/2019 10:00	964.0
6/30/2019 10:00	6/30/2019 11:00	988.3
6/30/2019 11:00	6/30/2019 12:00	994.5
6/30/2019 12:00	6/30/2019 13:00	997.2
6/30/2019 13:00	6/30/2019 14:00	982.9
6/30/2019 14:00	6/30/2019 15:00	967.2
6/30/2019 15:00	6/30/2019 16:00	970.0
6/30/2019 16:00	6/30/2019 17:00	979.4
6/30/2019 17:00	6/30/2019 18:00	974.5
6/30/2019 18:00	6/30/2019 19:00	910.2
6/30/2019 19:00	6/30/2019 20:00	875.1
6/30/2019 20:00	6/30/2019 21:00	848.4

Start Time	End Time	ANL_MW
6/30/2019 21:00	6/30/2019 22:00	878.2
6/30/2019 22:00	6/30/2019 23:00	857.4
6/30/2019 23:00	7/1/2019 0:00	805.8
7/1/2019 0:00	7/1/2019 1:00	724.4
7/1/2019 1:00	7/1/2019 2:00	694.9
7/1/2019 2:00	7/1/2019 3:00	639.7
7/1/2019 3:00	7/1/2019 4:00	639.6
7/1/2019 4:00	7/1/2019 5:00	620.3
7/1/2019 5:00	7/1/2019 6:00	622.9
7/1/2019 6:00	7/1/2019 7:00	654.9
7/1/2019 7:00	7/1/2019 8:00	653.1
7/1/2019 8:00	7/1/2019 9:00	717.9
7/1/2019 9:00	7/1/2019 10:00	814.5
7/1/2019 10:00	7/1/2019 11:00	831.6
7/1/2019 11:00	7/1/2019 12:00	808.6
7/1/2019 12:00	7/1/2019 13:00	830.0
7/1/2019 13:00	7/1/2019 14:00	807.2
7/1/2019 14:00	7/1/2019 15:00	786.2
7/1/2019 15:00	7/1/2019 16:00	768.5
7/1/2019 16:00	7/1/2019 17:00	754.8
7/1/2019 17:00	7/1/2019 18:00	758.7
7/1/2019 18:00	7/1/2019 19:00	728.6
7/1/2019 19:00	7/1/2019 20:00	745.4
7/1/2019 20:00	7/1/2019 21:00	751.4
7/1/2019 21:00	7/1/2019 22:00	761.9
7/1/2019 22:00	7/1/2019 23:00	711.8
7/1/2019 23:00	7/2/2019 0:00	645.2
7/2/2019 0:00	7/2/2019 1:00	630.4
7/2/2019 1:00	7/2/2019 2:00	595.6
7/2/2019 2:00	7/2/2019 3:00	584.5
7/2/2019 3:00	7/2/2019 4:00	640.8
7/2/2019 4:00	7/2/2019 5:00	674.0
7/2/2019 5:00	7/2/2019 6:00	712.0
7/2/2019 6:00	7/2/2019 7:00	790.1
7/2/2019 7:00	7/2/2019 8:00	875.3
7/2/2019 8:00	7/2/2019 9:00	926.4
7/2/2019 9:00	7/2/2019 10:00	931.7
7/2/2019 10:00	7/2/2019 11:00	937.3
7/2/2019 11:00	7/2/2019 12:00	944.4
7/2/2019 12:00	7/2/2019 13:00	957.9
7/2/2019 13:00	7/2/2019 14:00	957.7
7/2/2019 14:00	7/2/2019 15:00	944.0
7/2/2019 15:00	7/2/2019 16:00	972.9
7/2/2019 16:00	7/2/2019 17:00	1019.4
7/2/2019 17:00	7/2/2019 18:00	1023.3
7/2/2019 18:00	7/2/2019 19:00	993.6
7/2/2019 19:00	7/2/2019 20:00	978.5
7/2/2019 20:00	7/2/2019 21:00	968.8
7/2/2019 21:00	7/2/2019 22:00	970.3
7/2/2019 22:00	7/2/2019 23:00	909.1
7/2/2019 23:00	7/3/2019 0:00	825.5
7/3/2019 0:00	7/3/2019 1:00	757.8
7/3/2019 1:00	7/3/2019 2:00	773.5
7/3/2019 2:00	7/3/2019 3:00	758.6
7/3/2019 3:00	7/3/2019 4:00	737.1
7/3/2019 4:00	7/3/2019 5:00	738.1
7/3/2019 5:00	7/3/2019 6:00	763.5
7/3/2019 6:00	7/3/2019 7:00	829.2
7/3/2019 7:00	7/3/2019 8:00	940.1
7/3/2019 8:00	7/3/2019 9:00	1012.0
7/3/2019 9:00	7/3/2019 10:00	1058.1
7/3/2019 10:00	7/3/2019 11:00	1089.0
7/3/2019 11:00	7/3/2019 12:00	1098.8
7/3/2019 12:00	7/3/2019 13:00	1069.8
7/3/2019 13:00	7/3/2019 14:00	1078.3
7/3/2019 14:00	7/3/2019 15:00	1045.9
7/3/2019 15:00	7/3/2019 16:00	1059.2
7/3/2019 16:00	7/3/2019 17:00	1087.0
7/3/2019 17:00	7/3/2019 18:00	1087.5
7/3/2019 18:00	7/3/2019 19:00	1055.5

Start Time	End Time	ANL_MW
7/3/2019 19:00	7/3/2019 20:00	1036.0
7/3/2019 20:00	7/3/2019 21:00	1024.1
7/3/2019 21:00	7/3/2019 22:00	1000.7
7/3/2019 22:00	7/3/2019 23:00	955.2
7/3/2019 23:00	7/4/2019 0:00	886.2
7/4/2019 0:00	7/4/2019 1:00	801.5
7/4/2019 1:00	7/4/2019 2:00	756.6
7/4/2019 2:00	7/4/2019 3:00	728.1
7/4/2019 3:00	7/4/2019 4:00	691.6
7/4/2019 4:00	7/4/2019 5:00	696.2
7/4/2019 5:00	7/4/2019 6:00	715.7
7/4/2019 6:00	7/4/2019 7:00	795.5
7/4/2019 7:00	7/4/2019 8:00	943.1
7/4/2019 8:00	7/4/2019 9:00	1082.5
7/4/2019 9:00	7/4/2019 10:00	1103.5
7/4/2019 10:00	7/4/2019 11:00	1088.9
7/4/2019 11:00	7/4/2019 12:00	1093.6
7/4/2019 12:00	7/4/2019 13:00	1060.8
7/4/2019 13:00	7/4/2019 14:00	1033.9
7/4/2019 14:00	7/4/2019 15:00	1035.4
7/4/2019 15:00	7/4/2019 16:00	1047.7
7/4/2019 16:00	7/4/2019 17:00	1070.3
7/4/2019 17:00	7/4/2019 18:00	1083.7
7/4/2019 18:00	7/4/2019 19:00	1077.7
7/4/2019 19:00	7/4/2019 20:00	1067.7
7/4/2019 20:00	7/4/2019 21:00	1043.1
7/4/2019 21:00	7/4/2019 22:00	1016.9
7/4/2019 22:00	7/4/2019 23:00	928.9
7/4/2019 23:00	7/5/2019 0:00	826.0
7/5/2019 0:00	7/5/2019 1:00	775.1
7/5/2019 1:00	7/5/2019 2:00	766.4
7/5/2019 2:00	7/5/2019 3:00	749.6
7/5/2019 3:00	7/5/2019 4:00	702.6
7/5/2019 4:00	7/5/2019 5:00	687.3
7/5/2019 5:00	7/5/2019 6:00	704.7
7/5/2019 6:00	7/5/2019 7:00	807.0
7/5/2019 7:00	7/5/2019 8:00	961.3
7/5/2019 8:00	7/5/2019 9:00	1135.9
7/5/2019 9:00	7/5/2019 10:00	1236.7
7/5/2019 10:00	7/5/2019 11:00	1201.2
7/5/2019 11:00	7/5/2019 12:00	1213.5
7/5/2019 12:00	7/5/2019 13:00	1146.6
7/5/2019 13:00	7/5/2019 14:00	1123.3
7/5/2019 14:00	7/5/2019 15:00	1096.6
7/5/2019 15:00	7/5/2019 16:00	1086.7
7/5/2019 16:00	7/5/2019 17:00	1064.1
7/5/2019 17:00	7/5/2019 18:00	1053.0
7/5/2019 18:00	7/5/2019 19:00	1048.4
7/5/2019 19:00	7/5/2019 20:00	1038.1
7/5/2019 20:00	7/5/2019 21:00	994.0
7/5/2019 21:00	7/5/2019 22:00	924.5
7/5/2019 22:00	7/5/2019 23:00	867.6
7/5/2019 23:00	7/6/2019 0:00	821.9
7/6/2019 0:00	7/6/2019 1:00	756.2
7/6/2019 1:00	7/6/2019 2:00	689.4
7/6/2019 2:00	7/6/2019 3:00	642.6
7/6/2019 3:00	7/6/2019 4:00	635.9
7/6/2019 4:00	7/6/2019 5:00	625.0
7/6/2019 5:00	7/6/2019 6:00	613.9
7/6/2019 6:00	7/6/2019 7:00	656.4
7/6/2019 7:00	7/6/2019 8:00	760.7
7/6/2019 8:00	7/6/2019 9:00	898.5
7/6/2019 9:00	7/6/2019 10:00	1014.6
7/6/2019 10:00	7/6/2019 11:00	1071.5
7/6/2019 11:00	7/6/2019 12:00	1076.6
7/6/2019 12:00	7/6/2019 13:00	1039.8
7/6/2019 13:00	7/6/2019 14:00	980.7
7/6/2019 14:00	7/6/2019 15:00	970.9
7/6/2019 15:00	7/6/2019 16:00	966.2
7/6/2019 16:00	7/6/2019 17:00	990.7

Start Time	End Time	ANL_MW
7/6/2019 17:00	7/6/2019 18:00	1010.7
7/6/2019 18:00	7/6/2019 19:00	999.6
7/6/2019 19:00	7/6/2019 20:00	971.2
7/6/2019 20:00	7/6/2019 21:00	948.4
7/6/2019 21:00	7/6/2019 22:00	983.0
7/6/2019 22:00	7/6/2019 23:00	932.7
7/6/2019 23:00	7/7/2019 0:00	863.1
7/7/2019 0:00	7/7/2019 1:00	805.6
7/7/2019 1:00	7/7/2019 2:00	749.0
7/7/2019 2:00	7/7/2019 3:00	703.2
7/7/2019 3:00	7/7/2019 4:00	598.7
7/7/2019 4:00	7/7/2019 5:00	597.8
7/7/2019 5:00	7/7/2019 6:00	608.7
7/7/2019 6:00	7/7/2019 7:00	608.7
7/7/2019 7:00	7/7/2019 8:00	708.6
7/7/2019 8:00	7/7/2019 9:00	843.1
7/7/2019 9:00	7/7/2019 10:00	926.7
7/7/2019 10:00	7/7/2019 11:00	1016.4
7/7/2019 11:00	7/7/2019 12:00	1057.8
7/7/2019 12:00	7/7/2019 13:00	1047.9
7/7/2019 13:00	7/7/2019 14:00	1024.4
7/7/2019 14:00	7/7/2019 15:00	1003.6
7/7/2019 15:00	7/7/2019 16:00	990.1
7/7/2019 16:00	7/7/2019 17:00	1011.1
7/7/2019 17:00	7/7/2019 18:00	1044.9
7/7/2019 18:00	7/7/2019 19:00	1040.8
7/7/2019 19:00	7/7/2019 20:00	1036.3
7/7/2019 20:00	7/7/2019 21:00	1033.3
7/7/2019 21:00	7/7/2019 22:00	1030.7
7/7/2019 22:00	7/7/2019 23:00	944.4
7/7/2019 23:00	7/8/2019 0:00	811.8
7/8/2019 0:00	7/8/2019 1:00	725.1
7/8/2019 1:00	7/8/2019 2:00	731.9
7/8/2019 2:00	7/8/2019 3:00	723.3
7/8/2019 3:00	7/8/2019 4:00	737.4
7/8/2019 4:00	7/8/2019 5:00	754.2
7/8/2019 5:00	7/8/2019 6:00	782.5
7/8/2019 6:00	7/8/2019 7:00	841.5
7/8/2019 7:00	7/8/2019 8:00	951.7
7/8/2019 8:00	7/8/2019 9:00	1061.8
7/8/2019 9:00	7/8/2019 10:00	1101.1
7/8/2019 10:00	7/8/2019 11:00	1110.3
7/8/2019 11:00	7/8/2019 12:00	1103.2
7/8/2019 12:00	7/8/2019 13:00	1064.4
7/8/2019 13:00	7/8/2019 14:00	1031.4
7/8/2019 14:00	7/8/2019 15:00	991.9
7/8/2019 15:00	7/8/2019 16:00	967.3
7/8/2019 16:00	7/8/2019 17:00	981.9
7/8/2019 17:00	7/8/2019 18:00	1022.8
7/8/2019 18:00	7/8/2019 19:00	999.8
7/8/2019 19:00	7/8/2019 20:00	991.1
7/8/2019 20:00	7/8/2019 21:00	939.7
7/8/2019 21:00	7/8/2019 22:00	877.6
7/8/2019 22:00	7/8/2019 23:00	784.0
7/8/2019 23:00	7/9/2019 0:00	706.3
7/9/2019 0:00	7/9/2019 1:00	665.5
7/9/2019 1:00	7/9/2019 2:00	680.2
7/9/2019 2:00	7/9/2019 3:00	788.7
7/9/2019 3:00	7/9/2019 4:00	792.8
7/9/2019 4:00	7/9/2019 5:00	746.6
7/9/2019 5:00	7/9/2019 6:00	652.3
7/9/2019 6:00	7/9/2019 7:00	692.5
7/9/2019 7:00	7/9/2019 8:00	867.3
7/9/2019 8:00	7/9/2019 9:00	1048.4
7/9/2019 9:00	7/9/2019 10:00	1052.2
7/9/2019 10:00	7/9/2019 11:00	1063.2
7/9/2019 11:00	7/9/2019 12:00	1024.8
7/9/2019 12:00	7/9/2019 13:00	1009.2
7/9/2019 13:00	7/9/2019 14:00	988.2
7/9/2019 14:00	7/9/2019 15:00	952.5

Start Time	End Time	ANL_MW
7/9/2019 15:00	7/9/2019 16:00	944.6
7/9/2019 16:00	7/9/2019 17:00	1026.9
7/9/2019 17:00	7/9/2019 18:00	1052.8
7/9/2019 18:00	7/9/2019 19:00	1019.4
7/9/2019 19:00	7/9/2019 20:00	1024.9
7/9/2019 20:00	7/9/2019 21:00	1044.9
7/9/2019 21:00	7/9/2019 22:00	1067.3
7/9/2019 22:00	7/9/2019 23:00	1008.4
7/9/2019 23:00	7/10/2019 0:00	923.5
7/10/2019 0:00	7/10/2019 1:00	854.4
7/10/2019 1:00	7/10/2019 2:00	836.0
7/10/2019 2:00	7/10/2019 3:00	825.9
7/10/2019 3:00	7/10/2019 4:00	824.8
7/10/2019 4:00	7/10/2019 5:00	815.4
7/10/2019 5:00	7/10/2019 6:00	805.9
7/10/2019 6:00	7/10/2019 7:00	880.9
7/10/2019 7:00	7/10/2019 8:00	1029.5
7/10/2019 8:00	7/10/2019 9:00	1048.4
7/10/2019 9:00	7/10/2019 10:00	1017.3
7/10/2019 10:00	7/10/2019 11:00	943.6
7/10/2019 11:00	7/10/2019 12:00	939.0
7/10/2019 12:00	7/10/2019 13:00	916.7
7/10/2019 13:00	7/10/2019 14:00	928.6
7/10/2019 14:00	7/10/2019 15:00	932.8
7/10/2019 15:00	7/10/2019 16:00	927.4
7/10/2019 16:00	7/10/2019 17:00	985.8
7/10/2019 17:00	7/10/2019 18:00	1013.2
7/10/2019 18:00	7/10/2019 19:00	994.8
7/10/2019 19:00	7/10/2019 20:00	1013.2
7/10/2019 20:00	7/10/2019 21:00	1019.7
7/10/2019 21:00	7/10/2019 22:00	1005.1
7/10/2019 22:00	7/10/2019 23:00	957.4
7/10/2019 23:00	7/11/2019 0:00	905.8
7/11/2019 0:00	7/11/2019 1:00	880.6
7/11/2019 1:00	7/11/2019 2:00	843.3
7/11/2019 2:00	7/11/2019 3:00	803.7
7/11/2019 3:00	7/11/2019 4:00	776.4
7/11/2019 4:00	7/11/2019 5:00	756.7
7/11/2019 5:00	7/11/2019 6:00	794.8
7/11/2019 6:00	7/11/2019 7:00	820.0
7/11/2019 7:00	7/11/2019 8:00	954.9
7/11/2019 8:00	7/11/2019 9:00	1051.1
7/11/2019 9:00	7/11/2019 10:00	1080.8
7/11/2019 10:00	7/11/2019 11:00	1064.2
7/11/2019 11:00	7/11/2019 12:00	1129.1
7/11/2019 12:00	7/11/2019 13:00	1145.9
7/11/2019 13:00	7/11/2019 14:00	1102.8
7/11/2019 14:00	7/11/2019 15:00	1064.5
7/11/2019 15:00	7/11/2019 16:00	1061.2
7/11/2019 16:00	7/11/2019 17:00	1079.1
7/11/2019 17:00	7/11/2019 18:00	1056.3
7/11/2019 18:00	7/11/2019 19:00	1021.3
7/11/2019 19:00	7/11/2019 20:00	1001.1
7/11/2019 20:00	7/11/2019 21:00	966.2
7/11/2019 21:00	7/11/2019 22:00	938.2
7/11/2019 22:00	7/11/2019 23:00	854.6
7/11/2019 23:00	7/12/2019 0:00	796.5
7/12/2019 0:00	7/12/2019 1:00	716.2
7/12/2019 1:00	7/12/2019 2:00	654.1
7/12/2019 2:00	7/12/2019 3:00	623.1
7/12/2019 3:00	7/12/2019 4:00	586.6
7/12/2019 4:00	7/12/2019 5:00	582.0
7/12/2019 5:00	7/12/2019 6:00	619.1
7/12/2019 6:00	7/12/2019 7:00	718.7
7/12/2019 7:00	7/12/2019 8:00	868.3
7/12/2019 8:00	7/12/2019 9:00	961.7
7/12/2019 9:00	7/12/2019 10:00	975.3
7/12/2019 10:00	7/12/2019 11:00	930.2
7/12/2019 11:00	7/12/2019 12:00	904.8
7/12/2019 12:00	7/12/2019 13:00	883.0

Start Time	End Time	ANL_MW
7/12/2019 13:00	7/12/2019 14:00	860.9
7/12/2019 14:00	7/12/2019 15:00	857.9
7/12/2019 15:00	7/12/2019 16:00	888.2
7/12/2019 16:00	7/12/2019 17:00	909.3
7/12/2019 17:00	7/12/2019 18:00	882.4
7/12/2019 18:00	7/12/2019 19:00	829.3
7/12/2019 19:00	7/12/2019 20:00	790.9
7/12/2019 20:00	7/12/2019 21:00	745.9
7/12/2019 21:00	7/12/2019 22:00	774.4
7/12/2019 22:00	7/12/2019 23:00	739.4
7/12/2019 23:00	7/13/2019 0:00	726.7
7/13/2019 0:00	7/13/2019 1:00	708.1
7/13/2019 1:00	7/13/2019 2:00	721.5
7/13/2019 2:00	7/13/2019 3:00	717.8
7/13/2019 3:00	7/13/2019 4:00	701.6
7/13/2019 4:00	7/13/2019 5:00	721.6
7/13/2019 5:00	7/13/2019 6:00	733.7
7/13/2019 6:00	7/13/2019 7:00	768.0
7/13/2019 7:00	7/13/2019 8:00	848.0
7/13/2019 8:00	7/13/2019 9:00	931.7
7/13/2019 9:00	7/13/2019 10:00	1010.3
7/13/2019 10:00	7/13/2019 11:00	987.8
7/13/2019 11:00	7/13/2019 12:00	1028.3
7/13/2019 12:00	7/13/2019 13:00	1021.8
7/13/2019 13:00	7/13/2019 14:00	984.2
7/13/2019 14:00	7/13/2019 15:00	971.2
7/13/2019 15:00	7/13/2019 16:00	973.3
7/13/2019 16:00	7/13/2019 17:00	984.9
7/13/2019 17:00	7/13/2019 18:00	1007.5
7/13/2019 18:00	7/13/2019 19:00	978.1
7/13/2019 19:00	7/13/2019 20:00	957.7
7/13/2019 20:00	7/13/2019 21:00	942.1
7/13/2019 21:00	7/13/2019 22:00	959.6
7/13/2019 22:00	7/13/2019 23:00	924.1
7/13/2019 23:00	7/14/2019 0:00	927.1
7/14/2019 0:00	7/14/2019 1:00	890.5
7/14/2019 1:00	7/14/2019 2:00	833.7
7/14/2019 2:00	7/14/2019 3:00	827.4
7/14/2019 3:00	7/14/2019 4:00	822.0
7/14/2019 4:00	7/14/2019 5:00	833.2
7/14/2019 5:00	7/14/2019 6:00	827.9
7/14/2019 6:00	7/14/2019 7:00	827.7
7/14/2019 7:00	7/14/2019 8:00	879.2
7/14/2019 8:00	7/14/2019 9:00	975.0
7/14/2019 9:00	7/14/2019 10:00	1055.2
7/14/2019 10:00	7/14/2019 11:00	1086.2
7/14/2019 11:00	7/14/2019 12:00	1059.7
7/14/2019 12:00	7/14/2019 13:00	1096.8
7/14/2019 13:00	7/14/2019 14:00	1021.4
7/14/2019 14:00	7/14/2019 15:00	932.9
7/14/2019 15:00	7/14/2019 16:00	901.4
7/14/2019 16:00	7/14/2019 17:00	940.1
7/14/2019 17:00	7/14/2019 18:00	957.5
7/14/2019 18:00	7/14/2019 19:00	954.4
7/14/2019 19:00	7/14/2019 20:00	927.9
7/14/2019 20:00	7/14/2019 21:00	942.7
7/14/2019 21:00	7/14/2019 22:00	949.0
7/14/2019 22:00	7/14/2019 23:00	878.0
7/14/2019 23:00	7/15/2019 0:00	789.3
7/15/2019 0:00	7/15/2019 1:00	745.3
7/15/2019 1:00	7/15/2019 2:00	760.4
7/15/2019 2:00	7/15/2019 3:00	771.9
7/15/2019 3:00	7/15/2019 4:00	757.4
7/15/2019 4:00	7/15/2019 5:00	790.6
7/15/2019 5:00	7/15/2019 6:00	826.0
7/15/2019 6:00	7/15/2019 7:00	852.0
7/15/2019 7:00	7/15/2019 8:00	903.5
7/15/2019 8:00	7/15/2019 9:00	989.1
7/15/2019 9:00	7/15/2019 10:00	1039.2
7/15/2019 10:00	7/15/2019 11:00	1000.5

Start Time	End Time	ANL_MW
7/15/2019 11:00	7/15/2019 12:00	1028.9
7/15/2019 12:00	7/15/2019 13:00	996.2
7/15/2019 13:00	7/15/2019 14:00	984.3
7/15/2019 14:00	7/15/2019 15:00	972.9
7/15/2019 15:00	7/15/2019 16:00	976.7
7/15/2019 16:00	7/15/2019 17:00	994.2
7/15/2019 17:00	7/15/2019 18:00	999.4
7/15/2019 18:00	7/15/2019 19:00	944.4
7/15/2019 19:00	7/15/2019 20:00	935.8
7/15/2019 20:00	7/15/2019 21:00	981.3
7/15/2019 21:00	7/15/2019 22:00	1037.5
7/15/2019 22:00	7/15/2019 23:00	959.8
7/15/2019 23:00	7/16/2019 0:00	899.7
7/16/2019 0:00	7/16/2019 1:00	876.4
7/16/2019 1:00	7/16/2019 2:00	814.1
7/16/2019 2:00	7/16/2019 3:00	759.1
7/16/2019 3:00	7/16/2019 4:00	722.7
7/16/2019 4:00	7/16/2019 5:00	710.6
7/16/2019 5:00	7/16/2019 6:00	729.8
7/16/2019 6:00	7/16/2019 7:00	848.8
7/16/2019 7:00	7/16/2019 8:00	951.9
7/16/2019 8:00	7/16/2019 9:00	1021.9
7/16/2019 9:00	7/16/2019 10:00	1061.2
7/16/2019 10:00	7/16/2019 11:00	1088.6
7/16/2019 11:00	7/16/2019 12:00	1132.4
7/16/2019 12:00	7/16/2019 13:00	1156.4
7/16/2019 13:00	7/16/2019 14:00	1165.0
7/16/2019 14:00	7/16/2019 15:00	1161.7
7/16/2019 15:00	7/16/2019 16:00	1150.9
7/16/2019 16:00	7/16/2019 17:00	1148.3
7/16/2019 17:00	7/16/2019 18:00	1142.0
7/16/2019 18:00	7/16/2019 19:00	1094.2
7/16/2019 19:00	7/16/2019 20:00	1042.2
7/16/2019 20:00	7/16/2019 21:00	1012.6
7/16/2019 21:00	7/16/2019 22:00	1021.4
7/16/2019 22:00	7/16/2019 23:00	927.5
7/16/2019 23:00	7/17/2019 0:00	795.2
7/17/2019 0:00	7/17/2019 1:00	793.6
7/17/2019 1:00	7/17/2019 2:00	725.5
7/17/2019 2:00	7/17/2019 3:00	704.3
7/17/2019 3:00	7/17/2019 4:00	729.5
7/17/2019 4:00	7/17/2019 5:00	725.2
7/17/2019 5:00	7/17/2019 6:00	740.7
7/17/2019 6:00	7/17/2019 7:00	814.8
7/17/2019 7:00	7/17/2019 8:00	836.0
7/17/2019 8:00	7/17/2019 9:00	892.3
7/17/2019 9:00	7/17/2019 10:00	925.6
7/17/2019 10:00	7/17/2019 11:00	959.2
7/17/2019 11:00	7/17/2019 12:00	982.0
7/17/2019 12:00	7/17/2019 13:00	1006.1
7/17/2019 13:00	7/17/2019 14:00	1002.8
7/17/2019 14:00	7/17/2019 15:00	973.5
7/17/2019 15:00	7/17/2019 16:00	951.5
7/17/2019 16:00	7/17/2019 17:00	954.7
7/17/2019 17:00	7/17/2019 18:00	955.6
7/17/2019 18:00	7/17/2019 19:00	972.3
7/17/2019 19:00	7/17/2019 20:00	965.9
7/17/2019 20:00	7/17/2019 21:00	948.0
7/17/2019 21:00	7/17/2019 22:00	940.3
7/17/2019 22:00	7/17/2019 23:00	858.3
7/17/2019 23:00	7/18/2019 0:00	850.7
7/18/2019 0:00	7/18/2019 1:00	833.6
7/18/2019 1:00	7/18/2019 2:00	771.0
7/18/2019 2:00	7/18/2019 3:00	723.7
7/18/2019 3:00	7/18/2019 4:00	772.7
7/18/2019 4:00	7/18/2019 5:00	792.7
7/18/2019 5:00	7/18/2019 6:00	745.7
7/18/2019 6:00	7/18/2019 7:00	845.4
7/18/2019 7:00	7/18/2019 8:00	1021.0
7/18/2019 8:00	7/18/2019 9:00	1112.5

Start Time	End Time	ANL_MW
7/18/2019 9:00	7/18/2019 10:00	1159.4
7/18/2019 10:00	7/18/2019 11:00	1175.2
7/18/2019 11:00	7/18/2019 12:00	1194.3
7/18/2019 12:00	7/18/2019 13:00	1206.5
7/18/2019 13:00	7/18/2019 14:00	1196.3
7/18/2019 14:00	7/18/2019 15:00	1178.7
7/18/2019 15:00	7/18/2019 16:00	1163.8
7/18/2019 16:00	7/18/2019 17:00	1177.4
7/18/2019 17:00	7/18/2019 18:00	1187.1
7/18/2019 18:00	7/18/2019 19:00	1174.5
7/18/2019 19:00	7/18/2019 20:00	1146.9
7/18/2019 20:00	7/18/2019 21:00	1157.1
7/18/2019 21:00	7/18/2019 22:00	1165.3
7/18/2019 22:00	7/18/2019 23:00	1093.1
7/18/2019 23:00	7/19/2019 0:00	1085.6
7/19/2019 0:00	7/19/2019 1:00	992.0
7/19/2019 1:00	7/19/2019 2:00	913.9
7/19/2019 2:00	7/19/2019 3:00	897.0
7/19/2019 3:00	7/19/2019 4:00	892.1
7/19/2019 4:00	7/19/2019 5:00	903.5
7/19/2019 5:00	7/19/2019 6:00	900.8
7/19/2019 6:00	7/19/2019 7:00	965.3
7/19/2019 7:00	7/19/2019 8:00	1055.2
7/19/2019 8:00	7/19/2019 9:00	1129.1
7/19/2019 9:00	7/19/2019 10:00	1144.2
7/19/2019 10:00	7/19/2019 11:00	1138.4
7/19/2019 11:00	7/19/2019 12:00	1160.0
7/19/2019 12:00	7/19/2019 13:00	1177.8
7/19/2019 13:00	7/19/2019 14:00	1177.3
7/19/2019 14:00	7/19/2019 15:00	1157.8
7/19/2019 15:00	7/19/2019 16:00	1161.9
7/19/2019 16:00	7/19/2019 17:00	1165.2
7/19/2019 17:00	7/19/2019 18:00	1135.1
7/19/2019 18:00	7/19/2019 19:00	1073.0
7/19/2019 19:00	7/19/2019 20:00	1045.8
7/19/2019 20:00	7/19/2019 21:00	978.8
7/19/2019 21:00	7/19/2019 22:00	954.4
7/19/2019 22:00	7/19/2019 23:00	898.6
7/19/2019 23:00	7/20/2019 0:00	786.8
7/20/2019 0:00	7/20/2019 1:00	711.2
7/20/2019 1:00	7/20/2019 2:00	671.3
7/20/2019 2:00	7/20/2019 3:00	655.7
7/20/2019 3:00	7/20/2019 4:00	696.4
7/20/2019 4:00	7/20/2019 5:00	747.2
7/20/2019 5:00	7/20/2019 6:00	778.3
7/20/2019 6:00	7/20/2019 7:00	828.2
7/20/2019 7:00	7/20/2019 8:00	954.1
7/20/2019 8:00	7/20/2019 9:00	1103.9
7/20/2019 9:00	7/20/2019 10:00	1207.5
7/20/2019 10:00	7/20/2019 11:00	1203.1
7/20/2019 11:00	7/20/2019 12:00	1159.3
7/20/2019 12:00	7/20/2019 13:00	1168.4
7/20/2019 13:00	7/20/2019 14:00	1152.7
7/20/2019 14:00	7/20/2019 15:00	1123.8
7/20/2019 15:00	7/20/2019 16:00	1117.3
7/20/2019 16:00	7/20/2019 17:00	1122.8
7/20/2019 17:00	7/20/2019 18:00	1140.6
7/20/2019 18:00	7/20/2019 19:00	1122.2
7/20/2019 19:00	7/20/2019 20:00	1114.5
7/20/2019 20:00	7/20/2019 21:00	1070.7
7/20/2019 21:00	7/20/2019 22:00	1003.4
7/20/2019 22:00	7/20/2019 23:00	928.7
7/20/2019 23:00	7/21/2019 0:00	911.2
7/21/2019 0:00	7/21/2019 1:00	881.0
7/21/2019 1:00	7/21/2019 2:00	818.0
7/21/2019 2:00	7/21/2019 3:00	767.9
7/21/2019 3:00	7/21/2019 4:00	723.1
7/21/2019 4:00	7/21/2019 5:00	696.7
7/21/2019 5:00	7/21/2019 6:00	738.6
7/21/2019 6:00	7/21/2019 7:00	813.5

Start Time	End Time	ANL_MW
7/21/2019 7:00	7/21/2019 8:00	898.9
7/21/2019 8:00	7/21/2019 9:00	1048.2
7/21/2019 9:00	7/21/2019 10:00	1232.0
7/21/2019 10:00	7/21/2019 11:00	1278.4
7/21/2019 11:00	7/21/2019 12:00	1261.9
7/21/2019 12:00	7/21/2019 13:00	1229.9
7/21/2019 13:00	7/21/2019 14:00	1165.1
7/21/2019 14:00	7/21/2019 15:00	1151.8
7/21/2019 15:00	7/21/2019 16:00	1181.4
7/21/2019 16:00	7/21/2019 17:00	1200.0
7/21/2019 17:00	7/21/2019 18:00	1040.5
7/21/2019 18:00	7/21/2019 19:00	1063.9
7/21/2019 19:00	7/21/2019 20:00	1083.7
7/21/2019 20:00	7/21/2019 21:00	1009.7
7/21/2019 21:00	7/21/2019 22:00	968.5
7/21/2019 22:00	7/21/2019 23:00	962.7
7/21/2019 23:00	7/22/2019 0:00	973.7
7/22/2019 0:00	7/22/2019 1:00	975.8
7/22/2019 1:00	7/22/2019 2:00	919.6
7/22/2019 2:00	7/22/2019 3:00	857.9
7/22/2019 3:00	7/22/2019 4:00	825.5
7/22/2019 4:00	7/22/2019 5:00	817.0
7/22/2019 5:00	7/22/2019 6:00	857.9
7/22/2019 6:00	7/22/2019 7:00	953.4
7/22/2019 7:00	7/22/2019 8:00	1098.4
7/22/2019 8:00	7/22/2019 9:00	1135.8
7/22/2019 9:00	7/22/2019 10:00	1220.4
7/22/2019 10:00	7/22/2019 11:00	1261.7
7/22/2019 11:00	7/22/2019 12:00	1261.8
7/22/2019 12:00	7/22/2019 13:00	1250.1
7/22/2019 13:00	7/22/2019 14:00	1238.8
7/22/2019 14:00	7/22/2019 15:00	1214.2
7/22/2019 15:00	7/22/2019 16:00	1204.0
7/22/2019 16:00	7/22/2019 17:00	1234.5
7/22/2019 17:00	7/22/2019 18:00	1259.4
7/22/2019 18:00	7/22/2019 19:00	1234.2
7/22/2019 19:00	7/22/2019 20:00	1207.4
7/22/2019 20:00	7/22/2019 21:00	1186.4
7/22/2019 21:00	7/22/2019 22:00	1164.1
7/22/2019 22:00	7/22/2019 23:00	1068.1
7/22/2019 23:00	7/23/2019 0:00	986.0
7/23/2019 0:00	7/23/2019 1:00	927.6
7/23/2019 1:00	7/23/2019 2:00	912.0
7/23/2019 2:00	7/23/2019 3:00	918.0
7/23/2019 3:00	7/23/2019 4:00	904.2
7/23/2019 4:00	7/23/2019 5:00	912.1
7/23/2019 5:00	7/23/2019 6:00	918.8
7/23/2019 6:00	7/23/2019 7:00	976.3
7/23/2019 7:00	7/23/2019 8:00	1041.4
7/23/2019 8:00	7/23/2019 9:00	1082.6
7/23/2019 9:00	7/23/2019 10:00	1147.1
7/23/2019 10:00	7/23/2019 11:00	1204.8
7/23/2019 11:00	7/23/2019 12:00	1223.5
7/23/2019 12:00	7/23/2019 13:00	1185.0
7/23/2019 13:00	7/23/2019 14:00	1169.5
7/23/2019 14:00	7/23/2019 15:00	1162.6
7/23/2019 15:00	7/23/2019 16:00	1203.2
7/23/2019 16:00	7/23/2019 17:00	1220.1
7/23/2019 17:00	7/23/2019 18:00	1223.4
7/23/2019 18:00	7/23/2019 19:00	1186.5
7/23/2019 19:00	7/23/2019 20:00	1174.7
7/23/2019 20:00	7/23/2019 21:00	1159.7
7/23/2019 21:00	7/23/2019 22:00	1134.6
7/23/2019 22:00	7/23/2019 23:00	1060.3
7/23/2019 23:00	7/24/2019 0:00	1018.8
7/24/2019 0:00	7/24/2019 1:00	977.3
7/24/2019 1:00	7/24/2019 2:00	924.4
7/24/2019 2:00	7/24/2019 3:00	902.9
7/24/2019 3:00	7/24/2019 4:00	895.4
7/24/2019 4:00	7/24/2019 5:00	891.8

Start Time	End Time	ANL_MW
7/24/2019 5:00	7/24/2019 6:00	936.8
7/24/2019 6:00	7/24/2019 7:00	983.9
7/24/2019 7:00	7/24/2019 8:00	1087.7
7/24/2019 8:00	7/24/2019 9:00	1169.2
7/24/2019 9:00	7/24/2019 10:00	1210.8
7/24/2019 10:00	7/24/2019 11:00	1204.7
7/24/2019 11:00	7/24/2019 12:00	1211.4
7/24/2019 12:00	7/24/2019 13:00	1211.6
7/24/2019 13:00	7/24/2019 14:00	1208.9
7/24/2019 14:00	7/24/2019 15:00	1194.6
7/24/2019 15:00	7/24/2019 16:00	1199.6
7/24/2019 16:00	7/24/2019 17:00	1199.9
7/24/2019 17:00	7/24/2019 18:00	1187.0
7/24/2019 18:00	7/24/2019 19:00	1137.5
7/24/2019 19:00	7/24/2019 20:00	1108.4
7/24/2019 20:00	7/24/2019 21:00	1132.9
7/24/2019 21:00	7/24/2019 22:00	1121.3
7/24/2019 22:00	7/24/2019 23:00	1047.5
7/24/2019 23:00	7/25/2019 0:00	1024.6
7/25/2019 0:00	7/25/2019 1:00	960.2
7/25/2019 1:00	7/25/2019 2:00	906.1
7/25/2019 2:00	7/25/2019 3:00	862.7
7/25/2019 3:00	7/25/2019 4:00	801.3
7/25/2019 4:00	7/25/2019 5:00	783.3
7/25/2019 5:00	7/25/2019 6:00	828.2
7/25/2019 6:00	7/25/2019 7:00	934.6
7/25/2019 7:00	7/25/2019 8:00	1071.0
7/25/2019 8:00	7/25/2019 9:00	1169.7
7/25/2019 9:00	7/25/2019 10:00	1212.0
7/25/2019 10:00	7/25/2019 11:00	1219.4
7/25/2019 11:00	7/25/2019 12:00	1193.9
7/25/2019 12:00	7/25/2019 13:00	1179.9
7/25/2019 13:00	7/25/2019 14:00	1181.0
7/25/2019 14:00	7/25/2019 15:00	1174.3
7/25/2019 15:00	7/25/2019 16:00	1195.9
7/25/2019 16:00	7/25/2019 17:00	1232.8
7/25/2019 17:00	7/25/2019 18:00	1230.4
7/25/2019 18:00	7/25/2019 19:00	1191.9
7/25/2019 19:00	7/25/2019 20:00	1168.7
7/25/2019 20:00	7/25/2019 21:00	1149.3
7/25/2019 21:00	7/25/2019 22:00	1152.4
7/25/2019 22:00	7/25/2019 23:00	1066.0
7/25/2019 23:00	7/26/2019 0:00	978.5
7/26/2019 0:00	7/26/2019 1:00	945.5
7/26/2019 1:00	7/26/2019 2:00	940.2
7/26/2019 2:00	7/26/2019 3:00	901.5
7/26/2019 3:00	7/26/2019 4:00	876.6
7/26/2019 4:00	7/26/2019 5:00	855.4
7/26/2019 5:00	7/26/2019 6:00	855.7
7/26/2019 6:00	7/26/2019 7:00	870.6
7/26/2019 7:00	7/26/2019 8:00	1005.2
7/26/2019 8:00	7/26/2019 9:00	1116.7
7/26/2019 9:00	7/26/2019 10:00	1230.1
7/26/2019 10:00	7/26/2019 11:00	1210.8
7/26/2019 11:00	7/26/2019 12:00	1195.6
7/26/2019 12:00	7/26/2019 13:00	1183.8
7/26/2019 13:00	7/26/2019 14:00	1180.4
7/26/2019 14:00	7/26/2019 15:00	1154.3
7/26/2019 15:00	7/26/2019 16:00	1147.1
7/26/2019 16:00	7/26/2019 17:00	1148.6
7/26/2019 17:00	7/26/2019 18:00	1135.8
7/26/2019 18:00	7/26/2019 19:00	1090.8
7/26/2019 19:00	7/26/2019 20:00	1056.7
7/26/2019 20:00	7/26/2019 21:00	1076.4
7/26/2019 21:00	7/26/2019 22:00	1141.3
7/26/2019 22:00	7/26/2019 23:00	1078.0
7/26/2019 23:00	7/27/2019 0:00	1022.2
7/27/2019 0:00	7/27/2019 1:00	928.5
7/27/2019 1:00	7/27/2019 2:00	897.5
7/27/2019 2:00	7/27/2019 3:00	857.0

Start Time	End Time	ANL_MW
7/27/2019 3:00	7/27/2019 4:00	792.6
7/27/2019 4:00	7/27/2019 5:00	769.7
7/27/2019 5:00	7/27/2019 6:00	770.2
7/27/2019 6:00	7/27/2019 7:00	796.3
7/27/2019 7:00	7/27/2019 8:00	895.4
7/27/2019 8:00	7/27/2019 9:00	1024.2
7/27/2019 9:00	7/27/2019 10:00	1114.5
7/27/2019 10:00	7/27/2019 11:00	1118.1
7/27/2019 11:00	7/27/2019 12:00	1120.8
7/27/2019 12:00	7/27/2019 13:00	1111.2
7/27/2019 13:00	7/27/2019 14:00	1091.9
7/27/2019 14:00	7/27/2019 15:00	1082.9
7/27/2019 15:00	7/27/2019 16:00	1067.9
7/27/2019 16:00	7/27/2019 17:00	1063.3
7/27/2019 17:00	7/27/2019 18:00	1069.0
7/27/2019 18:00	7/27/2019 19:00	1066.3
7/27/2019 19:00	7/27/2019 20:00	1031.3
7/27/2019 20:00	7/27/2019 21:00	1002.9
7/27/2019 21:00	7/27/2019 22:00	991.0
7/27/2019 22:00	7/27/2019 23:00	921.1
7/27/2019 23:00	7/28/2019 0:00	859.2
7/28/2019 0:00	7/28/2019 1:00	816.5
7/28/2019 1:00	7/28/2019 2:00	792.2
7/28/2019 2:00	7/28/2019 3:00	779.9
7/28/2019 3:00	7/28/2019 4:00	789.6
7/28/2019 4:00	7/28/2019 5:00	798.8
7/28/2019 5:00	7/28/2019 6:00	809.8
7/28/2019 6:00	7/28/2019 7:00	798.7
7/28/2019 7:00	7/28/2019 8:00	844.2
7/28/2019 8:00	7/28/2019 9:00	950.0
7/28/2019 9:00	7/28/2019 10:00	1039.4
7/28/2019 10:00	7/28/2019 11:00	1087.2
7/28/2019 11:00	7/28/2019 12:00	1113.4
7/28/2019 12:00	7/28/2019 13:00	1125.0
7/28/2019 13:00	7/28/2019 14:00	1101.9
7/28/2019 14:00	7/28/2019 15:00	1064.7
7/28/2019 15:00	7/28/2019 16:00	1049.2
7/28/2019 16:00	7/28/2019 17:00	1053.8
7/28/2019 17:00	7/28/2019 18:00	1050.1
7/28/2019 18:00	7/28/2019 19:00	1036.3
7/28/2019 19:00	7/28/2019 20:00	1045.8
7/28/2019 20:00	7/28/2019 21:00	1026.8
7/28/2019 21:00	7/28/2019 22:00	968.1
7/28/2019 22:00	7/28/2019 23:00	855.2
7/28/2019 23:00	7/29/2019 0:00	749.5
7/29/2019 0:00	7/29/2019 1:00	660.2
7/29/2019 1:00	7/29/2019 2:00	589.0
7/29/2019 2:00	7/29/2019 3:00	552.9
7/29/2019 3:00	7/29/2019 4:00	555.9
7/29/2019 4:00	7/29/2019 5:00	578.2
7/29/2019 5:00	7/29/2019 6:00	610.8
7/29/2019 6:00	7/29/2019 7:00	691.0
7/29/2019 7:00	7/29/2019 8:00	859.4
7/29/2019 8:00	7/29/2019 9:00	1002.6
7/29/2019 9:00	7/29/2019 10:00	1091.8
7/29/2019 10:00	7/29/2019 11:00	1107.0
7/29/2019 11:00	7/29/2019 12:00	1107.9
7/29/2019 12:00	7/29/2019 13:00	1096.5
7/29/2019 13:00	7/29/2019 14:00	1113.7
7/29/2019 14:00	7/29/2019 15:00	1081.9
7/29/2019 15:00	7/29/2019 16:00	1089.7
7/29/2019 16:00	7/29/2019 17:00	1112.0
7/29/2019 17:00	7/29/2019 18:00	1118.9
7/29/2019 18:00	7/29/2019 19:00	1065.8
7/29/2019 19:00	7/29/2019 20:00	1077.6
7/29/2019 20:00	7/29/2019 21:00	1061.9
7/29/2019 21:00	7/29/2019 22:00	1045.7
7/29/2019 22:00	7/29/2019 23:00	945.0
7/29/2019 23:00	7/30/2019 0:00	844.7
7/30/2019 0:00	7/30/2019 1:00	776.7

Start Time	End Time	ANL_MW
7/30/2019 1:00	7/30/2019 2:00	724.8
7/30/2019 2:00	7/30/2019 3:00	702.4
7/30/2019 3:00	7/30/2019 4:00	674.0
7/30/2019 4:00	7/30/2019 5:00	702.6
7/30/2019 5:00	7/30/2019 6:00	683.3
7/30/2019 6:00	7/30/2019 7:00	775.8
7/30/2019 7:00	7/30/2019 8:00	910.6
7/30/2019 8:00	7/30/2019 9:00	1024.3
7/30/2019 9:00	7/30/2019 10:00	1121.8
7/30/2019 10:00	7/30/2019 11:00	1186.9
7/30/2019 11:00	7/30/2019 12:00	1225.0
7/30/2019 12:00	7/30/2019 13:00	1237.4
7/30/2019 13:00	7/30/2019 14:00	1227.1
7/30/2019 14:00	7/30/2019 15:00	1211.9
7/30/2019 15:00	7/30/2019 16:00	1214.7
7/30/2019 16:00	7/30/2019 17:00	1225.4
7/30/2019 17:00	7/30/2019 18:00	1229.9
7/30/2019 18:00	7/30/2019 19:00	1189.9
7/30/2019 19:00	7/30/2019 20:00	1142.4
7/30/2019 20:00	7/30/2019 21:00	1104.9
7/30/2019 21:00	7/30/2019 22:00	1086.3
7/30/2019 22:00	7/30/2019 23:00	994.9
7/30/2019 23:00	7/31/2019 0:00	886.2
7/31/2019 0:00	7/31/2019 1:00	771.1
7/31/2019 1:00	7/31/2019 2:00	706.5
7/31/2019 2:00	7/31/2019 3:00	677.4
7/31/2019 3:00	7/31/2019 4:00	678.0
7/31/2019 4:00	7/31/2019 5:00	682.5
7/31/2019 5:00	7/31/2019 6:00	700.8
7/31/2019 6:00	7/31/2019 7:00	772.4
7/31/2019 7:00	7/31/2019 8:00	892.6
7/31/2019 8:00	7/31/2019 9:00	1007.5
7/31/2019 9:00	7/31/2019 10:00	1096.7
7/31/2019 10:00	7/31/2019 11:00	1152.0
7/31/2019 11:00	7/31/2019 12:00	1186.9
7/31/2019 12:00	7/31/2019 13:00	1172.9
7/31/2019 13:00	7/31/2019 14:00	1164.0
7/31/2019 14:00	7/31/2019 15:00	1165.2
7/31/2019 15:00	7/31/2019 16:00	1179.0
7/31/2019 16:00	7/31/2019 17:00	1176.2
7/31/2019 17:00	7/31/2019 18:00	1152.9
7/31/2019 18:00	7/31/2019 19:00	1102.0
7/31/2019 19:00	7/31/2019 20:00	1041.9
7/31/2019 20:00	7/31/2019 21:00	1013.6
7/31/2019 21:00	7/31/2019 22:00	988.4
7/31/2019 22:00	7/31/2019 23:00	938.0
7/31/2019 23:00	8/1/2019 0:00	859.3
8/1/2019 0:00	8/1/2019 1:00	769.6
8/1/2019 1:00	8/1/2019 2:00	753.6
8/1/2019 2:00	8/1/2019 3:00	735.3
8/1/2019 3:00	8/1/2019 4:00	740.3
8/1/2019 4:00	8/1/2019 5:00	763.0
8/1/2019 5:00	8/1/2019 6:00	800.0
8/1/2019 6:00	8/1/2019 7:00	848.1
8/1/2019 7:00	8/1/2019 8:00	964.5
8/1/2019 8:00	8/1/2019 9:00	1105.5
8/1/2019 9:00	8/1/2019 10:00	1193.6
8/1/2019 10:00	8/1/2019 11:00	1233.9
8/1/2019 11:00	8/1/2019 12:00	1273.4
8/1/2019 12:00	8/1/2019 13:00	1287.3
8/1/2019 13:00	8/1/2019 14:00	1285.8
8/1/2019 14:00	8/1/2019 15:00	1278.5
8/1/2019 15:00	8/1/2019 16:00	1265.7
8/1/2019 16:00	8/1/2019 17:00	1309.7
8/1/2019 17:00	8/1/2019 18:00	1318.5
8/1/2019 18:00	8/1/2019 19:00	1292.5
8/1/2019 19:00	8/1/2019 20:00	1240.4
8/1/2019 20:00	8/1/2019 21:00	1179.9
8/1/2019 21:00	8/1/2019 22:00	1175.1
8/1/2019 22:00	8/1/2019 23:00	1087.8

Start Time	End Time	ANL_MW
8/1/2019 23:00	8/2/2019 0:00	1014.2
8/2/2019 0:00	8/2/2019 1:00	941.0
8/2/2019 1:00	8/2/2019 2:00	872.3
8/2/2019 2:00	8/2/2019 3:00	870.5
8/2/2019 3:00	8/2/2019 4:00	878.3
8/2/2019 4:00	8/2/2019 5:00	880.3
8/2/2019 5:00	8/2/2019 6:00	901.6
8/2/2019 6:00	8/2/2019 7:00	964.6
8/2/2019 7:00	8/2/2019 8:00	1051.2
8/2/2019 8:00	8/2/2019 9:00	1068.1
8/2/2019 9:00	8/2/2019 10:00	1133.8
8/2/2019 10:00	8/2/2019 11:00	1142.1
8/2/2019 11:00	8/2/2019 12:00	1131.7
8/2/2019 12:00	8/2/2019 13:00	1100.3
8/2/2019 13:00	8/2/2019 14:00	1100.1
8/2/2019 14:00	8/2/2019 15:00	1095.1
8/2/2019 15:00	8/2/2019 16:00	1083.7
8/2/2019 16:00	8/2/2019 17:00	1084.4
8/2/2019 17:00	8/2/2019 18:00	1056.2
8/2/2019 18:00	8/2/2019 19:00	1047.3
8/2/2019 19:00	8/2/2019 20:00	997.8
8/2/2019 20:00	8/2/2019 21:00	899.2
8/2/2019 21:00	8/2/2019 22:00	846.4
8/2/2019 22:00	8/2/2019 23:00	784.5
8/2/2019 23:00	8/3/2019 0:00	762.5
8/3/2019 0:00	8/3/2019 1:00	717.8
8/3/2019 1:00	8/3/2019 2:00	671.9
8/3/2019 2:00	8/3/2019 3:00	652.5
8/3/2019 3:00	8/3/2019 4:00	677.6
8/3/2019 4:00	8/3/2019 5:00	726.6
8/3/2019 5:00	8/3/2019 6:00	795.6
8/3/2019 6:00	8/3/2019 7:00	846.7
8/3/2019 7:00	8/3/2019 8:00	947.3
8/3/2019 8:00	8/3/2019 9:00	990.9
8/3/2019 9:00	8/3/2019 10:00	1015.1
8/3/2019 10:00	8/3/2019 11:00	1060.4
8/3/2019 11:00	8/3/2019 12:00	1062.2
8/3/2019 12:00	8/3/2019 13:00	1039.6
8/3/2019 13:00	8/3/2019 14:00	977.3
8/3/2019 14:00	8/3/2019 15:00	901.7
8/3/2019 15:00	8/3/2019 16:00	891.4
8/3/2019 16:00	8/3/2019 17:00	955.5
8/3/2019 17:00	8/3/2019 18:00	957.1
8/3/2019 18:00	8/3/2019 19:00	927.6
8/3/2019 19:00	8/3/2019 20:00	893.9
8/3/2019 20:00	8/3/2019 21:00	898.1
8/3/2019 21:00	8/3/2019 22:00	920.1
8/3/2019 22:00	8/3/2019 23:00	822.0
8/3/2019 23:00	8/4/2019 0:00	725.9
8/4/2019 0:00	8/4/2019 1:00	669.5
8/4/2019 1:00	8/4/2019 2:00	651.5
8/4/2019 2:00	8/4/2019 3:00	681.4
8/4/2019 3:00	8/4/2019 4:00	685.7
8/4/2019 4:00	8/4/2019 5:00	720.1
8/4/2019 5:00	8/4/2019 6:00	737.0
8/4/2019 6:00	8/4/2019 7:00	752.4
8/4/2019 7:00	8/4/2019 8:00	821.1
8/4/2019 8:00	8/4/2019 9:00	947.0
8/4/2019 9:00	8/4/2019 10:00	1028.2
8/4/2019 10:00	8/4/2019 11:00	1074.0
8/4/2019 11:00	8/4/2019 12:00	1106.6
8/4/2019 12:00	8/4/2019 13:00	1101.7
8/4/2019 13:00	8/4/2019 14:00	1088.8
8/4/2019 14:00	8/4/2019 15:00	1062.9
8/4/2019 15:00	8/4/2019 16:00	1062.7
8/4/2019 16:00	8/4/2019 17:00	1096.6
8/4/2019 17:00	8/4/2019 18:00	1110.8
8/4/2019 18:00	8/4/2019 19:00	1088.0
8/4/2019 19:00	8/4/2019 20:00	1076.8
8/4/2019 20:00	8/4/2019 21:00	1070.1

Start Time	End Time	ANL_MW
8/4/2019 21:00	8/4/2019 22:00	1068.3
8/4/2019 22:00	8/4/2019 23:00	993.6
8/4/2019 23:00	8/5/2019 0:00	901.0
8/5/2019 0:00	8/5/2019 1:00	839.6
8/5/2019 1:00	8/5/2019 2:00	772.6
8/5/2019 2:00	8/5/2019 3:00	755.9
8/5/2019 3:00	8/5/2019 4:00	738.5
8/5/2019 4:00	8/5/2019 5:00	749.0
8/5/2019 5:00	8/5/2019 6:00	778.5
8/5/2019 6:00	8/5/2019 7:00	804.3
8/5/2019 7:00	8/5/2019 8:00	885.1
8/5/2019 8:00	8/5/2019 9:00	1046.8
8/5/2019 9:00	8/5/2019 10:00	1146.5
8/5/2019 10:00	8/5/2019 11:00	1154.7
8/5/2019 11:00	8/5/2019 12:00	1098.5
8/5/2019 12:00	8/5/2019 13:00	1068.7
8/5/2019 13:00	8/5/2019 14:00	1043.7
8/5/2019 14:00	8/5/2019 15:00	1052.6
8/5/2019 15:00	8/5/2019 16:00	1062.9
8/5/2019 16:00	8/5/2019 17:00	1085.9
8/5/2019 17:00	8/5/2019 18:00	1060.9
8/5/2019 18:00	8/5/2019 19:00	1055.2
8/5/2019 19:00	8/5/2019 20:00	1069.5
8/5/2019 20:00	8/5/2019 21:00	1085.1
8/5/2019 21:00	8/5/2019 22:00	1085.1
8/5/2019 22:00	8/5/2019 23:00	1014.4
8/5/2019 23:00	8/6/2019 0:00	937.1
8/6/2019 0:00	8/6/2019 1:00	882.7
8/6/2019 1:00	8/6/2019 2:00	831.8
8/6/2019 2:00	8/6/2019 3:00	830.3
8/6/2019 3:00	8/6/2019 4:00	827.5
8/6/2019 4:00	8/6/2019 5:00	825.5
8/6/2019 5:00	8/6/2019 6:00	856.5
8/6/2019 6:00	8/6/2019 7:00	900.5
8/6/2019 7:00	8/6/2019 8:00	992.0
8/6/2019 8:00	8/6/2019 9:00	1103.9
8/6/2019 9:00	8/6/2019 10:00	1152.9
8/6/2019 10:00	8/6/2019 11:00	1165.3
8/6/2019 11:00	8/6/2019 12:00	1171.4
8/6/2019 12:00	8/6/2019 13:00	1150.8
8/6/2019 13:00	8/6/2019 14:00	1135.4
8/6/2019 14:00	8/6/2019 15:00	1133.4
8/6/2019 15:00	8/6/2019 16:00	1134.2
8/6/2019 16:00	8/6/2019 17:00	1152.6
8/6/2019 17:00	8/6/2019 18:00	1148.7
8/6/2019 18:00	8/6/2019 19:00	1128.2
8/6/2019 19:00	8/6/2019 20:00	1043.1
8/6/2019 20:00	8/6/2019 21:00	1031.7
8/6/2019 21:00	8/6/2019 22:00	1040.1
8/6/2019 22:00	8/6/2019 23:00	989.5
8/6/2019 23:00	8/7/2019 0:00	930.3
8/7/2019 0:00	8/7/2019 1:00	871.0
8/7/2019 1:00	8/7/2019 2:00	832.2
8/7/2019 2:00	8/7/2019 3:00	805.1
8/7/2019 3:00	8/7/2019 4:00	834.2
8/7/2019 4:00	8/7/2019 5:00	881.5
8/7/2019 5:00	8/7/2019 6:00	923.2
8/7/2019 6:00	8/7/2019 7:00	978.3
8/7/2019 7:00	8/7/2019 8:00	1091.1
8/7/2019 8:00	8/7/2019 9:00	1141.6
8/7/2019 9:00	8/7/2019 10:00	1185.2
8/7/2019 10:00	8/7/2019 11:00	1209.4
8/7/2019 11:00	8/7/2019 12:00	1220.3
8/7/2019 12:00	8/7/2019 13:00	1215.1
8/7/2019 13:00	8/7/2019 14:00	1161.6
8/7/2019 14:00	8/7/2019 15:00	1126.2
8/7/2019 15:00	8/7/2019 16:00	1132.2
8/7/2019 16:00	8/7/2019 17:00	1139.8
8/7/2019 17:00	8/7/2019 18:00	1152.4
8/7/2019 18:00	8/7/2019 19:00	1127.0

Start Time	End Time	ANL_MW
8/7/2019 19:00	8/7/2019 20:00	1083.4
8/7/2019 20:00	8/7/2019 21:00	1039.8
8/7/2019 21:00	8/7/2019 22:00	1036.0
8/7/2019 22:00	8/7/2019 23:00	976.4
8/7/2019 23:00	8/8/2019 0:00	888.6
8/8/2019 0:00	8/8/2019 1:00	797.5
8/8/2019 1:00	8/8/2019 2:00	732.6
8/8/2019 2:00	8/8/2019 3:00	723.0
8/8/2019 3:00	8/8/2019 4:00	736.4
8/8/2019 4:00	8/8/2019 5:00	756.0
8/8/2019 5:00	8/8/2019 6:00	766.9
8/8/2019 6:00	8/8/2019 7:00	794.3
8/8/2019 7:00	8/8/2019 8:00	844.3
8/8/2019 8:00	8/8/2019 9:00	924.7
8/8/2019 9:00	8/8/2019 10:00	939.9
8/8/2019 10:00	8/8/2019 11:00	960.6
8/8/2019 11:00	8/8/2019 12:00	949.3
8/8/2019 12:00	8/8/2019 13:00	914.3
8/8/2019 13:00	8/8/2019 14:00	903.7
8/8/2019 14:00	8/8/2019 15:00	869.0
8/8/2019 15:00	8/8/2019 16:00	866.5
8/8/2019 16:00	8/8/2019 17:00	878.2
8/8/2019 17:00	8/8/2019 18:00	860.6
8/8/2019 18:00	8/8/2019 19:00	856.7
8/8/2019 19:00	8/8/2019 20:00	843.6
8/8/2019 20:00	8/8/2019 21:00	912.1
8/8/2019 21:00	8/8/2019 22:00	897.7
8/8/2019 22:00	8/8/2019 23:00	834.7
8/8/2019 23:00	8/9/2019 0:00	755.6
8/9/2019 0:00	8/9/2019 1:00	679.1
8/9/2019 1:00	8/9/2019 2:00	658.9
8/9/2019 2:00	8/9/2019 3:00	693.2
8/9/2019 3:00	8/9/2019 4:00	718.3
8/9/2019 4:00	8/9/2019 5:00	744.9
8/9/2019 5:00	8/9/2019 6:00	785.3
8/9/2019 6:00	8/9/2019 7:00	881.7
8/9/2019 7:00	8/9/2019 8:00	1002.7
8/9/2019 8:00	8/9/2019 9:00	1130.8
8/9/2019 9:00	8/9/2019 10:00	1140.4
8/9/2019 10:00	8/9/2019 11:00	1154.1
8/9/2019 11:00	8/9/2019 12:00	1150.0
8/9/2019 12:00	8/9/2019 13:00	1127.2
8/9/2019 13:00	8/9/2019 14:00	1082.9
8/9/2019 14:00	8/9/2019 15:00	1077.3
8/9/2019 15:00	8/9/2019 16:00	1131.9
8/9/2019 16:00	8/9/2019 17:00	1112.4
8/9/2019 17:00	8/9/2019 18:00	1124.1
8/9/2019 18:00	8/9/2019 19:00	1093.4
8/9/2019 19:00	8/9/2019 20:00	1063.6
8/9/2019 20:00	8/9/2019 21:00	1019.1
8/9/2019 21:00	8/9/2019 22:00	997.4
8/9/2019 22:00	8/9/2019 23:00	967.4
8/9/2019 23:00	8/10/2019 0:00	942.9
8/10/2019 0:00	8/10/2019 1:00	913.9
8/10/2019 1:00	8/10/2019 2:00	857.4
8/10/2019 2:00	8/10/2019 3:00	850.8
8/10/2019 3:00	8/10/2019 4:00	854.1
8/10/2019 4:00	8/10/2019 5:00	887.1
8/10/2019 5:00	8/10/2019 6:00	906.4
8/10/2019 6:00	8/10/2019 7:00	894.6
8/10/2019 7:00	8/10/2019 8:00	909.0
8/10/2019 8:00	8/10/2019 9:00	1001.7
8/10/2019 9:00	8/10/2019 10:00	1077.2
8/10/2019 10:00	8/10/2019 11:00	1096.7
8/10/2019 11:00	8/10/2019 12:00	1073.6
8/10/2019 12:00	8/10/2019 13:00	1041.3
8/10/2019 13:00	8/10/2019 14:00	967.6
8/10/2019 14:00	8/10/2019 15:00	930.6
8/10/2019 15:00	8/10/2019 16:00	866.1
8/10/2019 16:00	8/10/2019 17:00	936.1

Start Time	End Time	ANL_MW
8/10/2019 17:00	8/10/2019 18:00	991.9
8/10/2019 18:00	8/10/2019 19:00	997.5
8/10/2019 19:00	8/10/2019 20:00	995.9
8/10/2019 20:00	8/10/2019 21:00	947.8
8/10/2019 21:00	8/10/2019 22:00	999.3
8/10/2019 22:00	8/10/2019 23:00	919.1
8/10/2019 23:00	8/11/2019 0:00	846.8
8/11/2019 0:00	8/11/2019 1:00	764.6
8/11/2019 1:00	8/11/2019 2:00	713.3
8/11/2019 2:00	8/11/2019 3:00	750.1
8/11/2019 3:00	8/11/2019 4:00	763.9
8/11/2019 4:00	8/11/2019 5:00	747.6
8/11/2019 5:00	8/11/2019 6:00	762.1
8/11/2019 6:00	8/11/2019 7:00	783.7
8/11/2019 7:00	8/11/2019 8:00	804.8
8/11/2019 8:00	8/11/2019 9:00	894.6
8/11/2019 9:00	8/11/2019 10:00	977.4
8/11/2019 10:00	8/11/2019 11:00	986.2
8/11/2019 11:00	8/11/2019 12:00	958.6
8/11/2019 12:00	8/11/2019 13:00	925.0
8/11/2019 13:00	8/11/2019 14:00	885.8
8/11/2019 14:00	8/11/2019 15:00	884.5
8/11/2019 15:00	8/11/2019 16:00	857.6
8/11/2019 16:00	8/11/2019 17:00	865.9
8/11/2019 17:00	8/11/2019 18:00	919.7
8/11/2019 18:00	8/11/2019 19:00	914.5
8/11/2019 19:00	8/11/2019 20:00	891.9
8/11/2019 20:00	8/11/2019 21:00	878.2
8/11/2019 21:00	8/11/2019 22:00	860.6
8/11/2019 22:00	8/11/2019 23:00	773.2
8/11/2019 23:00	8/12/2019 0:00	707.4
8/12/2019 0:00	8/12/2019 1:00	637.4
8/12/2019 1:00	8/12/2019 2:00	574.9
8/12/2019 2:00	8/12/2019 3:00	551.6
8/12/2019 3:00	8/12/2019 4:00	562.1
8/12/2019 4:00	8/12/2019 5:00	563.6
8/12/2019 5:00	8/12/2019 6:00	570.8
8/12/2019 6:00	8/12/2019 7:00	641.5
8/12/2019 7:00	8/12/2019 8:00	814.5
8/12/2019 8:00	8/12/2019 9:00	935.5
8/12/2019 9:00	8/12/2019 10:00	1021.7
8/12/2019 10:00	8/12/2019 11:00	1077.4
8/12/2019 11:00	8/12/2019 12:00	1069.6
8/12/2019 12:00	8/12/2019 13:00	1044.4
8/12/2019 13:00	8/12/2019 14:00	1015.3
8/12/2019 14:00	8/12/2019 15:00	978.0
8/12/2019 15:00	8/12/2019 16:00	989.4
8/12/2019 16:00	8/12/2019 17:00	1004.2
8/12/2019 17:00	8/12/2019 18:00	1003.5
8/12/2019 18:00	8/12/2019 19:00	968.6
8/12/2019 19:00	8/12/2019 20:00	936.5
8/12/2019 20:00	8/12/2019 21:00	932.2
8/12/2019 21:00	8/12/2019 22:00	920.0
8/12/2019 22:00	8/12/2019 23:00	846.0
8/12/2019 23:00	8/13/2019 0:00	778.2
8/13/2019 0:00	8/13/2019 1:00	729.6
8/13/2019 1:00	8/13/2019 2:00	692.0
8/13/2019 2:00	8/13/2019 3:00	717.2
8/13/2019 3:00	8/13/2019 4:00	696.6
8/13/2019 4:00	8/13/2019 5:00	716.5
8/13/2019 5:00	8/13/2019 6:00	750.9
8/13/2019 6:00	8/13/2019 7:00	807.2
8/13/2019 7:00	8/13/2019 8:00	923.5
8/13/2019 8:00	8/13/2019 9:00	1044.1
8/13/2019 9:00	8/13/2019 10:00	1063.1
8/13/2019 10:00	8/13/2019 11:00	1079.2
8/13/2019 11:00	8/13/2019 12:00	1098.9
8/13/2019 12:00	8/13/2019 13:00	1067.9
8/13/2019 13:00	8/13/2019 14:00	1065.8
8/13/2019 14:00	8/13/2019 15:00	1027.9

Start Time	End Time	ANL_MW
8/13/2019 15:00	8/13/2019 16:00	1017.1
8/13/2019 16:00	8/13/2019 17:00	1026.7
8/13/2019 17:00	8/13/2019 18:00	1048.3
8/13/2019 18:00	8/13/2019 19:00	1052.7
8/13/2019 19:00	8/13/2019 20:00	1063.8
8/13/2019 20:00	8/13/2019 21:00	1085.7
8/13/2019 21:00	8/13/2019 22:00	1097.9
8/13/2019 22:00	8/13/2019 23:00	1042.3
8/13/2019 23:00	8/14/2019 0:00	1006.0
8/14/2019 0:00	8/14/2019 1:00	936.6
8/14/2019 1:00	8/14/2019 2:00	916.4
8/14/2019 2:00	8/14/2019 3:00	928.3
8/14/2019 3:00	8/14/2019 4:00	938.7
8/14/2019 4:00	8/14/2019 5:00	936.1
8/14/2019 5:00	8/14/2019 6:00	945.1
8/14/2019 6:00	8/14/2019 7:00	1042.1
8/14/2019 7:00	8/14/2019 8:00	1153.3
8/14/2019 8:00	8/14/2019 9:00	1213.5
8/14/2019 9:00	8/14/2019 10:00	1218.2
8/14/2019 10:00	8/14/2019 11:00	1197.5
8/14/2019 11:00	8/14/2019 12:00	1206.8
8/14/2019 12:00	8/14/2019 13:00	1208.7
8/14/2019 13:00	8/14/2019 14:00	1192.0
8/14/2019 14:00	8/14/2019 15:00	1176.7
8/14/2019 15:00	8/14/2019 16:00	1171.7
8/14/2019 16:00	8/14/2019 17:00	1186.9
8/14/2019 17:00	8/14/2019 18:00	1191.5
8/14/2019 18:00	8/14/2019 19:00	1164.3
8/14/2019 19:00	8/14/2019 20:00	1137.9
8/14/2019 20:00	8/14/2019 21:00	1133.5
8/14/2019 21:00	8/14/2019 22:00	1100.4
8/14/2019 22:00	8/14/2019 23:00	1036.4
8/14/2019 23:00	8/15/2019 0:00	985.0
8/15/2019 0:00	8/15/2019 1:00	949.4
8/15/2019 1:00	8/15/2019 2:00	954.1
8/15/2019 2:00	8/15/2019 3:00	966.5
8/15/2019 3:00	8/15/2019 4:00	965.4
8/15/2019 4:00	8/15/2019 5:00	962.1
8/15/2019 5:00	8/15/2019 6:00	990.3
8/15/2019 6:00	8/15/2019 7:00	1058.4
8/15/2019 7:00	8/15/2019 8:00	1164.0
8/15/2019 8:00	8/15/2019 9:00	1205.6
8/15/2019 9:00	8/15/2019 10:00	1231.9
8/15/2019 10:00	8/15/2019 11:00	1237.0
8/15/2019 11:00	8/15/2019 12:00	1239.9
8/15/2019 12:00	8/15/2019 13:00	1221.0
8/15/2019 13:00	8/15/2019 14:00	1215.5
8/15/2019 14:00	8/15/2019 15:00	1205.0
8/15/2019 15:00	8/15/2019 16:00	1190.5
8/15/2019 16:00	8/15/2019 17:00	1200.7
8/15/2019 17:00	8/15/2019 18:00	1190.7
8/15/2019 18:00	8/15/2019 19:00	1156.2
8/15/2019 19:00	8/15/2019 20:00	1122.2
8/15/2019 20:00	8/15/2019 21:00	1153.6
8/15/2019 21:00	8/15/2019 22:00	1142.8
8/15/2019 22:00	8/15/2019 23:00	1085.9
8/15/2019 23:00	8/16/2019 0:00	1038.0
8/16/2019 0:00	8/16/2019 1:00	992.1
8/16/2019 1:00	8/16/2019 2:00	959.3
8/16/2019 2:00	8/16/2019 3:00	928.2
8/16/2019 3:00	8/16/2019 4:00	921.1
8/16/2019 4:00	8/16/2019 5:00	929.0
8/16/2019 5:00	8/16/2019 6:00	965.1
8/16/2019 6:00	8/16/2019 7:00	1021.4
8/16/2019 7:00	8/16/2019 8:00	1128.4
8/16/2019 8:00	8/16/2019 9:00	1186.4
8/16/2019 9:00	8/16/2019 10:00	1195.0
8/16/2019 10:00	8/16/2019 11:00	1162.7
8/16/2019 11:00	8/16/2019 12:00	1164.2
8/16/2019 12:00	8/16/2019 13:00	1144.9

Start Time	End Time	ANL_MW
8/16/2019 13:00	8/16/2019 14:00	1092.5
8/16/2019 14:00	8/16/2019 15:00	1051.6
8/16/2019 15:00	8/16/2019 16:00	1029.3
8/16/2019 16:00	8/16/2019 17:00	1002.9
8/16/2019 17:00	8/16/2019 18:00	1014.4
8/16/2019 18:00	8/16/2019 19:00	1024.0
8/16/2019 19:00	8/16/2019 20:00	1029.4
8/16/2019 20:00	8/16/2019 21:00	1010.3
8/16/2019 21:00	8/16/2019 22:00	978.9
8/16/2019 22:00	8/16/2019 23:00	966.5
8/16/2019 23:00	8/17/2019 0:00	909.2
8/17/2019 0:00	8/17/2019 1:00	875.0
8/17/2019 1:00	8/17/2019 2:00	853.6
8/17/2019 2:00	8/17/2019 3:00	849.2
8/17/2019 3:00	8/17/2019 4:00	850.4
8/17/2019 4:00	8/17/2019 5:00	875.6
8/17/2019 5:00	8/17/2019 6:00	911.6
8/17/2019 6:00	8/17/2019 7:00	934.5
8/17/2019 7:00	8/17/2019 8:00	1017.7
8/17/2019 8:00	8/17/2019 9:00	1103.4
8/17/2019 9:00	8/17/2019 10:00	1117.1
8/17/2019 10:00	8/17/2019 11:00	1087.6
8/17/2019 11:00	8/17/2019 12:00	1105.3
8/17/2019 12:00	8/17/2019 13:00	1049.4
8/17/2019 13:00	8/17/2019 14:00	1020.0
8/17/2019 14:00	8/17/2019 15:00	987.7
8/17/2019 15:00	8/17/2019 16:00	985.7
8/17/2019 16:00	8/17/2019 17:00	1012.4
8/17/2019 17:00	8/17/2019 18:00	1044.2
8/17/2019 18:00	8/17/2019 19:00	1063.1
8/17/2019 19:00	8/17/2019 20:00	1010.0
8/17/2019 20:00	8/17/2019 21:00	1052.1
8/17/2019 21:00	8/17/2019 22:00	1032.3
8/17/2019 22:00	8/17/2019 23:00	963.5
8/17/2019 23:00	8/18/2019 0:00	921.4
8/18/2019 0:00	8/18/2019 1:00	862.4
8/18/2019 1:00	8/18/2019 2:00	812.8
8/18/2019 2:00	8/18/2019 3:00	817.8
8/18/2019 3:00	8/18/2019 4:00	827.3
8/18/2019 4:00	8/18/2019 5:00	809.9
8/18/2019 5:00	8/18/2019 6:00	813.0
8/18/2019 6:00	8/18/2019 7:00	833.8
8/18/2019 7:00	8/18/2019 8:00	890.1
8/18/2019 8:00	8/18/2019 9:00	962.8
8/18/2019 9:00	8/18/2019 10:00	1053.6
8/18/2019 10:00	8/18/2019 11:00	1105.6
8/18/2019 11:00	8/18/2019 12:00	1136.5
8/18/2019 12:00	8/18/2019 13:00	1118.9
8/18/2019 13:00	8/18/2019 14:00	1097.5
8/18/2019 14:00	8/18/2019 15:00	1123.6
8/18/2019 15:00	8/18/2019 16:00	1137.2
8/18/2019 16:00	8/18/2019 17:00	1162.6
8/18/2019 17:00	8/18/2019 18:00	1187.1
8/18/2019 18:00	8/18/2019 19:00	1170.2
8/18/2019 19:00	8/18/2019 20:00	1154.3
8/18/2019 20:00	8/18/2019 21:00	1155.2
8/18/2019 21:00	8/18/2019 22:00	1116.7
8/18/2019 22:00	8/18/2019 23:00	1036.9
8/18/2019 23:00	8/19/2019 0:00	997.3
8/19/2019 0:00	8/19/2019 1:00	998.6
8/19/2019 1:00	8/19/2019 2:00	947.5
8/19/2019 2:00	8/19/2019 3:00	921.2
8/19/2019 3:00	8/19/2019 4:00	932.4
8/19/2019 4:00	8/19/2019 5:00	943.4
8/19/2019 5:00	8/19/2019 6:00	976.1
8/19/2019 6:00	8/19/2019 7:00	1015.6
8/19/2019 7:00	8/19/2019 8:00	1068.2
8/19/2019 8:00	8/19/2019 9:00	1142.2
8/19/2019 9:00	8/19/2019 10:00	1188.0
8/19/2019 10:00	8/19/2019 11:00	1214.9

Start Time	End Time	ANL_MW
8/19/2019 11:00	8/19/2019 12:00	1215.3
8/19/2019 12:00	8/19/2019 13:00	1147.8
8/19/2019 13:00	8/19/2019 14:00	1141.0
8/19/2019 14:00	8/19/2019 15:00	1090.8
8/19/2019 15:00	8/19/2019 16:00	1105.6
8/19/2019 16:00	8/19/2019 17:00	1083.2
8/19/2019 17:00	8/19/2019 18:00	1032.8
8/19/2019 18:00	8/19/2019 19:00	988.3
8/19/2019 19:00	8/19/2019 20:00	978.1
8/19/2019 20:00	8/19/2019 21:00	1021.4
8/19/2019 21:00	8/19/2019 22:00	999.9
8/19/2019 22:00	8/19/2019 23:00	884.6
8/19/2019 23:00	8/20/2019 0:00	785.0
8/20/2019 0:00	8/20/2019 1:00	701.8
8/20/2019 1:00	8/20/2019 2:00	673.7
8/20/2019 2:00	8/20/2019 3:00	689.8
8/20/2019 3:00	8/20/2019 4:00	736.3
8/20/2019 4:00	8/20/2019 5:00	793.2
8/20/2019 5:00	8/20/2019 6:00	867.3
8/20/2019 6:00	8/20/2019 7:00	962.3
8/20/2019 7:00	8/20/2019 8:00	1001.6
8/20/2019 8:00	8/20/2019 9:00	1083.1
8/20/2019 9:00	8/20/2019 10:00	1138.3
8/20/2019 10:00	8/20/2019 11:00	1144.5
8/20/2019 11:00	8/20/2019 12:00	1145.3
8/20/2019 12:00	8/20/2019 13:00	1124.0
8/20/2019 13:00	8/20/2019 14:00	1095.5
8/20/2019 14:00	8/20/2019 15:00	1099.5
8/20/2019 15:00	8/20/2019 16:00	1122.6
8/20/2019 16:00	8/20/2019 17:00	1153.9
8/20/2019 17:00	8/20/2019 18:00	1190.5
8/20/2019 18:00	8/20/2019 19:00	1164.5
8/20/2019 19:00	8/20/2019 20:00	1113.6
8/20/2019 20:00	8/20/2019 21:00	1099.1
8/20/2019 21:00	8/20/2019 22:00	1050.2
8/20/2019 22:00	8/20/2019 23:00	949.7
8/20/2019 23:00	8/21/2019 0:00	859.3
8/21/2019 0:00	8/21/2019 1:00	802.5
8/21/2019 1:00	8/21/2019 2:00	833.6
8/21/2019 2:00	8/21/2019 3:00	869.4
8/21/2019 3:00	8/21/2019 4:00	849.7
8/21/2019 4:00	8/21/2019 5:00	851.0
8/21/2019 5:00	8/21/2019 6:00	890.3
8/21/2019 6:00	8/21/2019 7:00	958.2
8/21/2019 7:00	8/21/2019 8:00	1018.0
8/21/2019 8:00	8/21/2019 9:00	1083.3
8/21/2019 9:00	8/21/2019 10:00	1134.6
8/21/2019 10:00	8/21/2019 11:00	1144.5
8/21/2019 11:00	8/21/2019 12:00	1157.7
8/21/2019 12:00	8/21/2019 13:00	1143.1
8/21/2019 13:00	8/21/2019 14:00	1132.2
8/21/2019 14:00	8/21/2019 15:00	1119.2
8/21/2019 15:00	8/21/2019 16:00	1111.5
8/21/2019 16:00	8/21/2019 17:00	1108.9
8/21/2019 17:00	8/21/2019 18:00	1068.2
8/21/2019 18:00	8/21/2019 19:00	1018.8
8/21/2019 19:00	8/21/2019 20:00	975.0
8/21/2019 20:00	8/21/2019 21:00	976.7
8/21/2019 21:00	8/21/2019 22:00	999.8
8/21/2019 22:00	8/21/2019 23:00	975.9
8/21/2019 23:00	8/22/2019 0:00	906.9
8/22/2019 0:00	8/22/2019 1:00	832.3
8/22/2019 1:00	8/22/2019 2:00	777.6
8/22/2019 2:00	8/22/2019 3:00	757.4
8/22/2019 3:00	8/22/2019 4:00	721.9
8/22/2019 4:00	8/22/2019 5:00	728.8
8/22/2019 5:00	8/22/2019 6:00	755.2
8/22/2019 6:00	8/22/2019 7:00	787.0
8/22/2019 7:00	8/22/2019 8:00	872.6
8/22/2019 8:00	8/22/2019 9:00	990.2

Start Time	End Time	ANL_MW
8/22/2019 9:00	8/22/2019 10:00	1062.3
8/22/2019 10:00	8/22/2019 11:00	1077.0
8/22/2019 11:00	8/22/2019 12:00	1083.7
8/22/2019 12:00	8/22/2019 13:00	1079.3
8/22/2019 13:00	8/22/2019 14:00	1047.0
8/22/2019 14:00	8/22/2019 15:00	1048.6
8/22/2019 15:00	8/22/2019 16:00	1065.2
8/22/2019 16:00	8/22/2019 17:00	1114.1
8/22/2019 17:00	8/22/2019 18:00	1163.3
8/22/2019 18:00	8/22/2019 19:00	1190.3
8/22/2019 19:00	8/22/2019 20:00	1148.6
8/22/2019 20:00	8/22/2019 21:00	1138.0
8/22/2019 21:00	8/22/2019 22:00	1072.8
8/22/2019 22:00	8/22/2019 23:00	949.4
8/22/2019 23:00	8/23/2019 0:00	893.4
8/23/2019 0:00	8/23/2019 1:00	886.2
8/23/2019 1:00	8/23/2019 2:00	835.5
8/23/2019 2:00	8/23/2019 3:00	825.2
8/23/2019 3:00	8/23/2019 4:00	821.3
8/23/2019 4:00	8/23/2019 5:00	849.7
8/23/2019 5:00	8/23/2019 6:00	939.4
8/23/2019 6:00	8/23/2019 7:00	1044.2
8/23/2019 7:00	8/23/2019 8:00	1166.1
8/23/2019 8:00	8/23/2019 9:00	1177.0
8/23/2019 9:00	8/23/2019 10:00	1197.2
8/23/2019 10:00	8/23/2019 11:00	1225.9
8/23/2019 11:00	8/23/2019 12:00	1242.3
8/23/2019 12:00	8/23/2019 13:00	1227.8
8/23/2019 13:00	8/23/2019 14:00	1193.2
8/23/2019 14:00	8/23/2019 15:00	1155.6
8/23/2019 15:00	8/23/2019 16:00	1136.0
8/23/2019 16:00	8/23/2019 17:00	1141.8
8/23/2019 17:00	8/23/2019 18:00	1141.2
8/23/2019 18:00	8/23/2019 19:00	1085.9
8/23/2019 19:00	8/23/2019 20:00	1050.6
8/23/2019 20:00	8/23/2019 21:00	1041.8
8/23/2019 21:00	8/23/2019 22:00	998.8
8/23/2019 22:00	8/23/2019 23:00	934.4
8/23/2019 23:00	8/24/2019 0:00	881.5
8/24/2019 0:00	8/24/2019 1:00	815.9
8/24/2019 1:00	8/24/2019 2:00	766.9
8/24/2019 2:00	8/24/2019 3:00	746.4
8/24/2019 3:00	8/24/2019 4:00	746.2
8/24/2019 4:00	8/24/2019 5:00	714.9
8/24/2019 5:00	8/24/2019 6:00	689.9
8/24/2019 6:00	8/24/2019 7:00	730.6
8/24/2019 7:00	8/24/2019 8:00	821.3
8/24/2019 8:00	8/24/2019 9:00	938.6
8/24/2019 9:00	8/24/2019 10:00	964.0
8/24/2019 10:00	8/24/2019 11:00	864.1
8/24/2019 11:00	8/24/2019 12:00	830.8
8/24/2019 12:00	8/24/2019 13:00	787.8
8/24/2019 13:00	8/24/2019 14:00	741.8
8/24/2019 14:00	8/24/2019 15:00	714.1
8/24/2019 15:00	8/24/2019 16:00	714.8
8/24/2019 16:00	8/24/2019 17:00	790.3
8/24/2019 17:00	8/24/2019 18:00	800.3
8/24/2019 18:00	8/24/2019 19:00	739.3
8/24/2019 19:00	8/24/2019 20:00	768.1
8/24/2019 20:00	8/24/2019 21:00	831.5
8/24/2019 21:00	8/24/2019 22:00	852.2
8/24/2019 22:00	8/24/2019 23:00	823.8
8/24/2019 23:00	8/25/2019 0:00	776.5
8/25/2019 0:00	8/25/2019 1:00	674.5
8/25/2019 1:00	8/25/2019 2:00	617.1
8/25/2019 2:00	8/25/2019 3:00	627.0
8/25/2019 3:00	8/25/2019 4:00	659.9
8/25/2019 4:00	8/25/2019 5:00	678.7
8/25/2019 5:00	8/25/2019 6:00	692.5
8/25/2019 6:00	8/25/2019 7:00	737.1

Start Time	End Time	ANL_MW
8/25/2019 7:00	8/25/2019 8:00	755.4
8/25/2019 8:00	8/25/2019 9:00	878.4
8/25/2019 9:00	8/25/2019 10:00	953.4
8/25/2019 10:00	8/25/2019 11:00	980.2
8/25/2019 11:00	8/25/2019 12:00	1006.9
8/25/2019 12:00	8/25/2019 13:00	1023.1
8/25/2019 13:00	8/25/2019 14:00	1024.0
8/25/2019 14:00	8/25/2019 15:00	1009.1
8/25/2019 15:00	8/25/2019 16:00	1021.7
8/25/2019 16:00	8/25/2019 17:00	1051.3
8/25/2019 17:00	8/25/2019 18:00	1060.6
8/25/2019 18:00	8/25/2019 19:00	1038.8
8/25/2019 19:00	8/25/2019 20:00	1025.7
8/25/2019 20:00	8/25/2019 21:00	1051.3
8/25/2019 21:00	8/25/2019 22:00	1012.3
8/25/2019 22:00	8/25/2019 23:00	984.7
8/25/2019 23:00	8/26/2019 0:00	920.5
8/26/2019 0:00	8/26/2019 1:00	873.6
8/26/2019 1:00	8/26/2019 2:00	835.4
8/26/2019 2:00	8/26/2019 3:00	807.1
8/26/2019 3:00	8/26/2019 4:00	806.2
8/26/2019 4:00	8/26/2019 5:00	799.9
8/26/2019 5:00	8/26/2019 6:00	813.8
8/26/2019 6:00	8/26/2019 7:00	883.5
8/26/2019 7:00	8/26/2019 8:00	981.8
8/26/2019 8:00	8/26/2019 9:00	1038.5
8/26/2019 9:00	8/26/2019 10:00	1105.1
8/26/2019 10:00	8/26/2019 11:00	1144.4
8/26/2019 11:00	8/26/2019 12:00	1161.1
8/26/2019 12:00	8/26/2019 13:00	1122.0
8/26/2019 13:00	8/26/2019 14:00	1122.3
8/26/2019 14:00	8/26/2019 15:00	1094.4
8/26/2019 15:00	8/26/2019 16:00	1092.9
8/26/2019 16:00	8/26/2019 17:00	1128.1
8/26/2019 17:00	8/26/2019 18:00	1118.2
8/26/2019 18:00	8/26/2019 19:00	1059.8
8/26/2019 19:00	8/26/2019 20:00	1063.0
8/26/2019 20:00	8/26/2019 21:00	1034.7
8/26/2019 21:00	8/26/2019 22:00	1051.0
8/26/2019 22:00	8/26/2019 23:00	968.8
8/26/2019 23:00	8/27/2019 0:00	883.3
8/27/2019 0:00	8/27/2019 1:00	788.7
8/27/2019 1:00	8/27/2019 2:00	730.2
8/27/2019 2:00	8/27/2019 3:00	714.1
8/27/2019 3:00	8/27/2019 4:00	675.4
8/27/2019 4:00	8/27/2019 5:00	644.3
8/27/2019 5:00	8/27/2019 6:00	637.2
8/27/2019 6:00	8/27/2019 7:00	705.1
8/27/2019 7:00	8/27/2019 8:00	770.9
8/27/2019 8:00	8/27/2019 9:00	803.3
8/27/2019 9:00	8/27/2019 10:00	866.1
8/27/2019 10:00	8/27/2019 11:00	908.2
8/27/2019 11:00	8/27/2019 12:00	915.0
8/27/2019 12:00	8/27/2019 13:00	940.7
8/27/2019 13:00	8/27/2019 14:00	909.1
8/27/2019 14:00	8/27/2019 15:00	872.8
8/27/2019 15:00	8/27/2019 16:00	878.6
8/27/2019 16:00	8/27/2019 17:00	861.4
8/27/2019 17:00	8/27/2019 18:00	865.3
8/27/2019 18:00	8/27/2019 19:00	838.0
8/27/2019 19:00	8/27/2019 20:00	826.2
8/27/2019 20:00	8/27/2019 21:00	822.6
8/27/2019 21:00	8/27/2019 22:00	808.0
8/27/2019 22:00	8/27/2019 23:00	678.9
8/27/2019 23:00	8/28/2019 0:00	585.1
8/28/2019 0:00	8/28/2019 1:00	536.1
8/28/2019 1:00	8/28/2019 2:00	506.5
8/28/2019 2:00	8/28/2019 3:00	517.5
8/28/2019 3:00	8/28/2019 4:00	526.2
8/28/2019 4:00	8/28/2019 5:00	545.6

Start Time	End Time	ANL_MW
8/28/2019 5:00	8/28/2019 6:00	606.1
8/28/2019 6:00	8/28/2019 7:00	680.7
8/28/2019 7:00	8/28/2019 8:00	818.2
8/28/2019 8:00	8/28/2019 9:00	969.1
8/28/2019 9:00	8/28/2019 10:00	1097.0
8/28/2019 10:00	8/28/2019 11:00	1142.4
8/28/2019 11:00	8/28/2019 12:00	1181.6
8/28/2019 12:00	8/28/2019 13:00	1153.2
8/28/2019 13:00	8/28/2019 14:00	1110.2
8/28/2019 14:00	8/28/2019 15:00	1105.2
8/28/2019 15:00	8/28/2019 16:00	1109.7
8/28/2019 16:00	8/28/2019 17:00	1139.8
8/28/2019 17:00	8/28/2019 18:00	1172.4
8/28/2019 18:00	8/28/2019 19:00	1134.4
8/28/2019 19:00	8/28/2019 20:00	1101.6
8/28/2019 20:00	8/28/2019 21:00	1128.3
8/28/2019 21:00	8/28/2019 22:00	1067.1
8/28/2019 22:00	8/28/2019 23:00	975.3
8/28/2019 23:00	8/29/2019 0:00	922.5
8/29/2019 0:00	8/29/2019 1:00	917.0
8/29/2019 1:00	8/29/2019 2:00	889.5
8/29/2019 2:00	8/29/2019 3:00	842.4
8/29/2019 3:00	8/29/2019 4:00	801.6
8/29/2019 4:00	8/29/2019 5:00	757.5
8/29/2019 5:00	8/29/2019 6:00	732.1
8/29/2019 6:00	8/29/2019 7:00	739.9
8/29/2019 7:00	8/29/2019 8:00	829.2
8/29/2019 8:00	8/29/2019 9:00	924.6
8/29/2019 9:00	8/29/2019 10:00	1016.6
8/29/2019 10:00	8/29/2019 11:00	1010.2
8/29/2019 11:00	8/29/2019 12:00	973.8
8/29/2019 12:00	8/29/2019 13:00	932.3
8/29/2019 13:00	8/29/2019 14:00	843.9
8/29/2019 14:00	8/29/2019 15:00	865.0
8/29/2019 15:00	8/29/2019 16:00	913.9
8/29/2019 16:00	8/29/2019 17:00	976.2
8/29/2019 17:00	8/29/2019 18:00	1067.0
8/29/2019 18:00	8/29/2019 19:00	1119.3
8/29/2019 19:00	8/29/2019 20:00	1088.2
8/29/2019 20:00	8/29/2019 21:00	1053.7
8/29/2019 21:00	8/29/2019 22:00	942.1
8/29/2019 22:00	8/29/2019 23:00	795.3
8/29/2019 23:00	8/30/2019 0:00	762.1
8/30/2019 0:00	8/30/2019 1:00	611.7
8/30/2019 1:00	8/30/2019 2:00	623.6
8/30/2019 2:00	8/30/2019 3:00	641.2
8/30/2019 3:00	8/30/2019 4:00	716.7
8/30/2019 4:00	8/30/2019 5:00	777.2
8/30/2019 5:00	8/30/2019 6:00	832.9
8/30/2019 6:00	8/30/2019 7:00	940.1
8/30/2019 7:00	8/30/2019 8:00	1057.3
8/30/2019 8:00	8/30/2019 9:00	1177.1
8/30/2019 9:00	8/30/2019 10:00	1253.7
8/30/2019 10:00	8/30/2019 11:00	1289.4
8/30/2019 11:00	8/30/2019 12:00	1216.6
8/30/2019 12:00	8/30/2019 13:00	1190.9
8/30/2019 13:00	8/30/2019 14:00	1167.8
8/30/2019 14:00	8/30/2019 15:00	1085.9
8/30/2019 15:00	8/30/2019 16:00	1041.1
8/30/2019 16:00	8/30/2019 17:00	1028.7
8/30/2019 17:00	8/30/2019 18:00	1040.8
8/30/2019 18:00	8/30/2019 19:00	1048.7
8/30/2019 19:00	8/30/2019 20:00	1037.5
8/30/2019 20:00	8/30/2019 21:00	1041.5
8/30/2019 21:00	8/30/2019 22:00	940.4
8/30/2019 22:00	8/30/2019 23:00	843.1
8/30/2019 23:00	8/31/2019 0:00	740.1
8/31/2019 0:00	8/31/2019 1:00	691.3
8/31/2019 1:00	8/31/2019 2:00	705.7
8/31/2019 2:00	8/31/2019 3:00	653.7

Start Time	End Time	ANL_MW
8/31/2019 3:00	8/31/2019 4:00	711.1
8/31/2019 4:00	8/31/2019 5:00	739.6
8/31/2019 5:00	8/31/2019 6:00	756.6
8/31/2019 6:00	8/31/2019 7:00	816.4
8/31/2019 7:00	8/31/2019 8:00	887.0
8/31/2019 8:00	8/31/2019 9:00	1024.9
8/31/2019 9:00	8/31/2019 10:00	1161.0
8/31/2019 10:00	8/31/2019 11:00	1191.4
8/31/2019 11:00	8/31/2019 12:00	1164.2
8/31/2019 12:00	8/31/2019 13:00	1120.0
8/31/2019 13:00	8/31/2019 14:00	1056.2
8/31/2019 14:00	8/31/2019 15:00	942.4
8/31/2019 15:00	8/31/2019 16:00	906.7
8/31/2019 16:00	8/31/2019 17:00	930.0
8/31/2019 17:00	8/31/2019 18:00	984.8
8/31/2019 18:00	8/31/2019 19:00	946.4
8/31/2019 19:00	8/31/2019 20:00	948.5
8/31/2019 20:00	8/31/2019 21:00	943.1
8/31/2019 21:00	8/31/2019 22:00	898.5
8/31/2019 22:00	8/31/2019 23:00	870.1
8/31/2019 23:00	9/1/2019 0:00	807.2
9/1/2019 0:00	9/1/2019 1:00	749.5
9/1/2019 1:00	9/1/2019 2:00	692.9
9/1/2019 2:00	9/1/2019 3:00	674.9
9/1/2019 3:00	9/1/2019 4:00	668.8
9/1/2019 4:00	9/1/2019 5:00	677.0
9/1/2019 5:00	9/1/2019 6:00	665.2
9/1/2019 6:00	9/1/2019 7:00	682.8
9/1/2019 7:00	9/1/2019 8:00	766.7
9/1/2019 8:00	9/1/2019 9:00	862.5
9/1/2019 9:00	9/1/2019 10:00	974.6
9/1/2019 10:00	9/1/2019 11:00	1028.8
9/1/2019 11:00	9/1/2019 12:00	1046.2
9/1/2019 12:00	9/1/2019 13:00	1060.4
9/1/2019 13:00	9/1/2019 14:00	1049.3
9/1/2019 14:00	9/1/2019 15:00	1025.7
9/1/2019 15:00	9/1/2019 16:00	1032.6
9/1/2019 16:00	9/1/2019 17:00	1059.5
9/1/2019 17:00	9/1/2019 18:00	1076.4
9/1/2019 18:00	9/1/2019 19:00	1057.5
9/1/2019 19:00	9/1/2019 20:00	1034.7
9/1/2019 20:00	9/1/2019 21:00	1050.8
9/1/2019 21:00	9/1/2019 22:00	998.3
9/1/2019 22:00	9/1/2019 23:00	910.0
9/1/2019 23:00	9/2/2019 0:00	845.1
9/2/2019 0:00	9/2/2019 1:00	768.9
9/2/2019 1:00	9/2/2019 2:00	736.0
9/2/2019 2:00	9/2/2019 3:00	725.3
9/2/2019 3:00	9/2/2019 4:00	715.1
9/2/2019 4:00	9/2/2019 5:00	713.5
9/2/2019 5:00	9/2/2019 6:00	685.5
9/2/2019 6:00	9/2/2019 7:00	702.8
9/2/2019 7:00	9/2/2019 8:00	686.9
9/2/2019 8:00	9/2/2019 9:00	750.0
9/2/2019 9:00	9/2/2019 10:00	789.2
9/2/2019 10:00	9/2/2019 11:00	783.9
9/2/2019 11:00	9/2/2019 12:00	816.2
9/2/2019 12:00	9/2/2019 13:00	790.2
9/2/2019 13:00	9/2/2019 14:00	743.3
9/2/2019 14:00	9/2/2019 15:00	722.1
9/2/2019 15:00	9/2/2019 16:00	730.0
9/2/2019 16:00	9/2/2019 17:00	789.2
9/2/2019 17:00	9/2/2019 18:00	827.6
9/2/2019 18:00	9/2/2019 19:00	825.1
9/2/2019 19:00	9/2/2019 20:00	862.8
9/2/2019 20:00	9/2/2019 21:00	859.6
9/2/2019 21:00	9/2/2019 22:00	788.2
9/2/2019 22:00	9/2/2019 23:00	721.5
9/2/2019 23:00	9/3/2019 0:00	614.6
9/3/2019 0:00	9/3/2019 1:00	579.2

Start Time	End Time	ANL_MW
9/3/2019 1:00	9/3/2019 2:00	572.4
9/3/2019 2:00	9/3/2019 3:00	606.5
9/3/2019 3:00	9/3/2019 4:00	613.4
9/3/2019 4:00	9/3/2019 5:00	669.3
9/3/2019 5:00	9/3/2019 6:00	746.6
9/3/2019 6:00	9/3/2019 7:00	875.4
9/3/2019 7:00	9/3/2019 8:00	998.8
9/3/2019 8:00	9/3/2019 9:00	1142.9
9/3/2019 9:00	9/3/2019 10:00	1217.7
9/3/2019 10:00	9/3/2019 11:00	1252.1
9/3/2019 11:00	9/3/2019 12:00	1187.5
9/3/2019 12:00	9/3/2019 13:00	1190.7
9/3/2019 13:00	9/3/2019 14:00	1187.6
9/3/2019 14:00	9/3/2019 15:00	1181.6
9/3/2019 15:00	9/3/2019 16:00	1180.0
9/3/2019 16:00	9/3/2019 17:00	1168.1
9/3/2019 17:00	9/3/2019 18:00	1168.3
9/3/2019 18:00	9/3/2019 19:00	1173.3
9/3/2019 19:00	9/3/2019 20:00	1172.5
9/3/2019 20:00	9/3/2019 21:00	1227.1
9/3/2019 21:00	9/3/2019 22:00	1182.7
9/3/2019 22:00	9/3/2019 23:00	1085.0
9/3/2019 23:00	9/4/2019 0:00	1015.6
9/4/2019 0:00	9/4/2019 1:00	947.8
9/4/2019 1:00	9/4/2019 2:00	899.0
9/4/2019 2:00	9/4/2019 3:00	865.9
9/4/2019 3:00	9/4/2019 4:00	853.7
9/4/2019 4:00	9/4/2019 5:00	834.8
9/4/2019 5:00	9/4/2019 6:00	853.9
9/4/2019 6:00	9/4/2019 7:00	955.0
9/4/2019 7:00	9/4/2019 8:00	1061.6
9/4/2019 8:00	9/4/2019 9:00	1130.4
9/4/2019 9:00	9/4/2019 10:00	1083.2
9/4/2019 10:00	9/4/2019 11:00	1078.5
9/4/2019 11:00	9/4/2019 12:00	1095.7
9/4/2019 12:00	9/4/2019 13:00	1053.7
9/4/2019 13:00	9/4/2019 14:00	994.4
9/4/2019 14:00	9/4/2019 15:00	953.7
9/4/2019 15:00	9/4/2019 16:00	932.3
9/4/2019 16:00	9/4/2019 17:00	917.8
9/4/2019 17:00	9/4/2019 18:00	902.1
9/4/2019 18:00	9/4/2019 19:00	849.0
9/4/2019 19:00	9/4/2019 20:00	805.6
9/4/2019 20:00	9/4/2019 21:00	756.2
9/4/2019 21:00	9/4/2019 22:00	667.5
9/4/2019 22:00	9/4/2019 23:00	607.9
9/4/2019 23:00	9/5/2019 0:00	557.2
9/5/2019 0:00	9/5/2019 1:00	519.8
9/5/2019 1:00	9/5/2019 2:00	552.3
9/5/2019 2:00	9/5/2019 3:00	559.7
9/5/2019 3:00	9/5/2019 4:00	575.7
9/5/2019 4:00	9/5/2019 5:00	577.7
9/5/2019 5:00	9/5/2019 6:00	603.9
9/5/2019 6:00	9/5/2019 7:00	682.7
9/5/2019 7:00	9/5/2019 8:00	768.2
9/5/2019 8:00	9/5/2019 9:00	846.5
9/5/2019 9:00	9/5/2019 10:00	854.3
9/5/2019 10:00	9/5/2019 11:00	896.9
9/5/2019 11:00	9/5/2019 12:00	945.5
9/5/2019 12:00	9/5/2019 13:00	941.8
9/5/2019 13:00	9/5/2019 14:00	977.9
9/5/2019 14:00	9/5/2019 15:00	999.4
9/5/2019 15:00	9/5/2019 16:00	1043.3
9/5/2019 16:00	9/5/2019 17:00	1081.5
9/5/2019 17:00	9/5/2019 18:00	1103.1
9/5/2019 18:00	9/5/2019 19:00	1054.2
9/5/2019 19:00	9/5/2019 20:00	1053.2
9/5/2019 20:00	9/5/2019 21:00	1124.1
9/5/2019 21:00	9/5/2019 22:00	1044.7
9/5/2019 22:00	9/5/2019 23:00	964.0

Start Time	End Time	ANL_MW
9/5/2019 23:00	9/6/2019 0:00	867.1
9/6/2019 0:00	9/6/2019 1:00	810.8
9/6/2019 1:00	9/6/2019 2:00	775.8
9/6/2019 2:00	9/6/2019 3:00	758.0
9/6/2019 3:00	9/6/2019 4:00	753.9
9/6/2019 4:00	9/6/2019 5:00	774.4
9/6/2019 5:00	9/6/2019 6:00	780.1
9/6/2019 6:00	9/6/2019 7:00	843.8
9/6/2019 7:00	9/6/2019 8:00	918.6
9/6/2019 8:00	9/6/2019 9:00	987.0
9/6/2019 9:00	9/6/2019 10:00	1039.8
9/6/2019 10:00	9/6/2019 11:00	1052.7
9/6/2019 11:00	9/6/2019 12:00	1074.2
9/6/2019 12:00	9/6/2019 13:00	1069.3
9/6/2019 13:00	9/6/2019 14:00	1072.0
9/6/2019 14:00	9/6/2019 15:00	1065.7
9/6/2019 15:00	9/6/2019 16:00	1064.3
9/6/2019 16:00	9/6/2019 17:00	1073.8
9/6/2019 17:00	9/6/2019 18:00	1061.7
9/6/2019 18:00	9/6/2019 19:00	1027.9
9/6/2019 19:00	9/6/2019 20:00	1024.4
9/6/2019 20:00	9/6/2019 21:00	1026.7
9/6/2019 21:00	9/6/2019 22:00	999.6
9/6/2019 22:00	9/6/2019 23:00	911.5
9/6/2019 23:00	9/7/2019 0:00	794.6
9/7/2019 0:00	9/7/2019 1:00	687.0
9/7/2019 1:00	9/7/2019 2:00	595.1
9/7/2019 2:00	9/7/2019 3:00	526.8
9/7/2019 3:00	9/7/2019 4:00	525.0
9/7/2019 4:00	9/7/2019 5:00	526.8
9/7/2019 5:00	9/7/2019 6:00	457.5
9/7/2019 6:00	9/7/2019 7:00	480.0
9/7/2019 7:00	9/7/2019 8:00	597.2
9/7/2019 8:00	9/7/2019 9:00	640.6
9/7/2019 9:00	9/7/2019 10:00	682.9
9/7/2019 10:00	9/7/2019 11:00	731.8
9/7/2019 11:00	9/7/2019 12:00	784.0
9/7/2019 12:00	9/7/2019 13:00	760.0
9/7/2019 13:00	9/7/2019 14:00	755.9
9/7/2019 14:00	9/7/2019 15:00	710.4
9/7/2019 15:00	9/7/2019 16:00	633.4
9/7/2019 16:00	9/7/2019 17:00	592.9
9/7/2019 17:00	9/7/2019 18:00	564.1
9/7/2019 18:00	9/7/2019 19:00	524.3
9/7/2019 19:00	9/7/2019 20:00	492.7
9/7/2019 20:00	9/7/2019 21:00	487.2
9/7/2019 21:00	9/7/2019 22:00	415.0
9/7/2019 22:00	9/7/2019 23:00	384.7
9/7/2019 23:00	9/8/2019 0:00	349.4
9/8/2019 0:00	9/8/2019 1:00	301.2
9/8/2019 1:00	9/8/2019 2:00	287.0
9/8/2019 2:00	9/8/2019 3:00	317.1
9/8/2019 3:00	9/8/2019 4:00	318.9
9/8/2019 4:00	9/8/2019 5:00	319.4
9/8/2019 5:00	9/8/2019 6:00	337.1
9/8/2019 6:00	9/8/2019 7:00	337.8
9/8/2019 7:00	9/8/2019 8:00	354.4
9/8/2019 8:00	9/8/2019 9:00	381.2
9/8/2019 9:00	9/8/2019 10:00	395.5
9/8/2019 10:00	9/8/2019 11:00	386.3
9/8/2019 11:00	9/8/2019 12:00	431.1
9/8/2019 12:00	9/8/2019 13:00	486.4
9/8/2019 13:00	9/8/2019 14:00	526.8
9/8/2019 14:00	9/8/2019 15:00	547.4
9/8/2019 15:00	9/8/2019 16:00	529.2
9/8/2019 16:00	9/8/2019 17:00	544.7
9/8/2019 17:00	9/8/2019 18:00	575.1
9/8/2019 18:00	9/8/2019 19:00	610.8
9/8/2019 19:00	9/8/2019 20:00	646.0
9/8/2019 20:00	9/8/2019 21:00	680.6

Start Time	End Time	ANL_MW
9/8/2019 21:00	9/8/2019 22:00	624.6
9/8/2019 22:00	9/8/2019 23:00	575.1
9/8/2019 23:00	9/9/2019 0:00	599.3
9/9/2019 0:00	9/9/2019 1:00	573.0
9/9/2019 1:00	9/9/2019 2:00	567.8
9/9/2019 2:00	9/9/2019 3:00	552.4
9/9/2019 3:00	9/9/2019 4:00	529.3
9/9/2019 4:00	9/9/2019 5:00	544.8
9/9/2019 5:00	9/9/2019 6:00	590.3
9/9/2019 6:00	9/9/2019 7:00	628.4
9/9/2019 7:00	9/9/2019 8:00	647.8
9/9/2019 8:00	9/9/2019 9:00	732.9
9/9/2019 9:00	9/9/2019 10:00	789.3
9/9/2019 10:00	9/9/2019 11:00	819.2
9/9/2019 11:00	9/9/2019 12:00	832.0
9/9/2019 12:00	9/9/2019 13:00	832.2
9/9/2019 13:00	9/9/2019 14:00	848.7
9/9/2019 14:00	9/9/2019 15:00	851.6
9/9/2019 15:00	9/9/2019 16:00	862.9
9/9/2019 16:00	9/9/2019 17:00	889.1
9/9/2019 17:00	9/9/2019 18:00	913.9
9/9/2019 18:00	9/9/2019 19:00	891.0
9/9/2019 19:00	9/9/2019 20:00	892.7
9/9/2019 20:00	9/9/2019 21:00	909.3
9/9/2019 21:00	9/9/2019 22:00	844.1
9/9/2019 22:00	9/9/2019 23:00	762.8
9/9/2019 23:00	9/10/2019 0:00	733.6
9/10/2019 0:00	9/10/2019 1:00	707.5
9/10/2019 1:00	9/10/2019 2:00	703.0
9/10/2019 2:00	9/10/2019 3:00	680.9
9/10/2019 3:00	9/10/2019 4:00	689.8
9/10/2019 4:00	9/10/2019 5:00	712.2
9/10/2019 5:00	9/10/2019 6:00	751.9
9/10/2019 6:00	9/10/2019 7:00	790.9
9/10/2019 7:00	9/10/2019 8:00	833.9
9/10/2019 8:00	9/10/2019 9:00	903.5
9/10/2019 9:00	9/10/2019 10:00	951.5
9/10/2019 10:00	9/10/2019 11:00	973.6
9/10/2019 11:00	9/10/2019 12:00	982.7
9/10/2019 12:00	9/10/2019 13:00	992.5
9/10/2019 13:00	9/10/2019 14:00	978.9
9/10/2019 14:00	9/10/2019 15:00	952.1
9/10/2019 15:00	9/10/2019 16:00	962.2
9/10/2019 16:00	9/10/2019 17:00	992.0
9/10/2019 17:00	9/10/2019 18:00	1007.3
9/10/2019 18:00	9/10/2019 19:00	996.1
9/10/2019 19:00	9/10/2019 20:00	1024.4
9/10/2019 20:00	9/10/2019 21:00	1043.1
9/10/2019 21:00	9/10/2019 22:00	984.2
9/10/2019 22:00	9/10/2019 23:00	902.8
9/10/2019 23:00	9/11/2019 0:00	833.5
9/11/2019 0:00	9/11/2019 1:00	841.3
9/11/2019 1:00	9/11/2019 2:00	800.8
9/11/2019 2:00	9/11/2019 3:00	760.2
9/11/2019 3:00	9/11/2019 4:00	749.7
9/11/2019 4:00	9/11/2019 5:00	750.0
9/11/2019 5:00	9/11/2019 6:00	743.1
9/11/2019 6:00	9/11/2019 7:00	751.7
9/11/2019 7:00	9/11/2019 8:00	742.8
9/11/2019 8:00	9/11/2019 9:00	734.9
9/11/2019 9:00	9/11/2019 10:00	726.4
9/11/2019 10:00	9/11/2019 11:00	706.4
9/11/2019 11:00	9/11/2019 12:00	682.0
9/11/2019 12:00	9/11/2019 13:00	702.5
9/11/2019 13:00	9/11/2019 14:00	702.5
9/11/2019 14:00	9/11/2019 15:00	698.7
9/11/2019 15:00	9/11/2019 16:00	698.4
9/11/2019 16:00	9/11/2019 17:00	777.1
9/11/2019 17:00	9/11/2019 18:00	721.8
9/11/2019 18:00	9/11/2019 19:00	746.4

Start Time	End Time	ANL_MW
9/11/2019 19:00	9/11/2019 20:00	811.5
9/11/2019 20:00	9/11/2019 21:00	880.3
9/11/2019 21:00	9/11/2019 22:00	863.6
9/11/2019 22:00	9/11/2019 23:00	852.5
9/11/2019 23:00	9/12/2019 0:00	845.0
9/12/2019 0:00	9/12/2019 1:00	775.0
9/12/2019 1:00	9/12/2019 2:00	713.4
9/12/2019 2:00	9/12/2019 3:00	685.8
9/12/2019 3:00	9/12/2019 4:00	679.8
9/12/2019 4:00	9/12/2019 5:00	644.2
9/12/2019 5:00	9/12/2019 6:00	630.8
9/12/2019 6:00	9/12/2019 7:00	714.1
9/12/2019 7:00	9/12/2019 8:00	804.6
9/12/2019 8:00	9/12/2019 9:00	806.5
9/12/2019 9:00	9/12/2019 10:00	844.8
9/12/2019 10:00	9/12/2019 11:00	856.1
9/12/2019 11:00	9/12/2019 12:00	861.9
9/12/2019 12:00	9/12/2019 13:00	863.8
9/12/2019 13:00	9/12/2019 14:00	877.0
9/12/2019 14:00	9/12/2019 15:00	892.6
9/12/2019 15:00	9/12/2019 16:00	917.7
9/12/2019 16:00	9/12/2019 17:00	946.7
9/12/2019 17:00	9/12/2019 18:00	956.4
9/12/2019 18:00	9/12/2019 19:00	962.7
9/12/2019 19:00	9/12/2019 20:00	991.5
9/12/2019 20:00	9/12/2019 21:00	966.9
9/12/2019 21:00	9/12/2019 22:00	940.7
9/12/2019 22:00	9/12/2019 23:00	937.9
9/12/2019 23:00	9/13/2019 0:00	907.2
9/13/2019 0:00	9/13/2019 1:00	850.5
9/13/2019 1:00	9/13/2019 2:00	802.1
9/13/2019 2:00	9/13/2019 3:00	760.6
9/13/2019 3:00	9/13/2019 4:00	773.6
9/13/2019 4:00	9/13/2019 5:00	790.1
9/13/2019 5:00	9/13/2019 6:00	836.3
9/13/2019 6:00	9/13/2019 7:00	884.7
9/13/2019 7:00	9/13/2019 8:00	880.6
9/13/2019 8:00	9/13/2019 9:00	871.3
9/13/2019 9:00	9/13/2019 10:00	902.0
9/13/2019 10:00	9/13/2019 11:00	830.9
9/13/2019 11:00	9/13/2019 12:00	829.8
9/13/2019 12:00	9/13/2019 13:00	839.5
9/13/2019 13:00	9/13/2019 14:00	886.1
9/13/2019 14:00	9/13/2019 15:00	916.6
9/13/2019 15:00	9/13/2019 16:00	929.9
9/13/2019 16:00	9/13/2019 17:00	944.7
9/13/2019 17:00	9/13/2019 18:00	952.8
9/13/2019 18:00	9/13/2019 19:00	947.6
9/13/2019 19:00	9/13/2019 20:00	971.0
9/13/2019 20:00	9/13/2019 21:00	1009.6
9/13/2019 21:00	9/13/2019 22:00	991.9
9/13/2019 22:00	9/13/2019 23:00	951.7
9/13/2019 23:00	9/14/2019 0:00	959.7
9/14/2019 0:00	9/14/2019 1:00	946.8
9/14/2019 1:00	9/14/2019 2:00	919.1
9/14/2019 2:00	9/14/2019 3:00	959.5
9/14/2019 3:00	9/14/2019 4:00	943.0
9/14/2019 4:00	9/14/2019 5:00	939.9
9/14/2019 5:00	9/14/2019 6:00	905.6
9/14/2019 6:00	9/14/2019 7:00	897.8
9/14/2019 7:00	9/14/2019 8:00	898.2
9/14/2019 8:00	9/14/2019 9:00	898.8
9/14/2019 9:00	9/14/2019 10:00	946.9
9/14/2019 10:00	9/14/2019 11:00	903.7
9/14/2019 11:00	9/14/2019 12:00	820.3
9/14/2019 12:00	9/14/2019 13:00	767.6
9/14/2019 13:00	9/14/2019 14:00	703.9
9/14/2019 14:00	9/14/2019 15:00	657.4
9/14/2019 15:00	9/14/2019 16:00	615.6
9/14/2019 16:00	9/14/2019 17:00	618.6

Start Time	End Time	ANL_MW
9/14/2019 17:00	9/14/2019 18:00	678.3
9/14/2019 18:00	9/14/2019 19:00	641.0
9/14/2019 19:00	9/14/2019 20:00	641.9
9/14/2019 20:00	9/14/2019 21:00	659.3
9/14/2019 21:00	9/14/2019 22:00	640.0
9/14/2019 22:00	9/14/2019 23:00	632.6
9/14/2019 23:00	9/15/2019 0:00	541.6
9/15/2019 0:00	9/15/2019 1:00	489.1
9/15/2019 1:00	9/15/2019 2:00	522.6
9/15/2019 2:00	9/15/2019 3:00	499.8
9/15/2019 3:00	9/15/2019 4:00	493.7
9/15/2019 4:00	9/15/2019 5:00	489.5
9/15/2019 5:00	9/15/2019 6:00	494.2
9/15/2019 6:00	9/15/2019 7:00	524.7
9/15/2019 7:00	9/15/2019 8:00	553.1
9/15/2019 8:00	9/15/2019 9:00	585.4
9/15/2019 9:00	9/15/2019 10:00	686.8
9/15/2019 10:00	9/15/2019 11:00	729.1
9/15/2019 11:00	9/15/2019 12:00	804.5
9/15/2019 12:00	9/15/2019 13:00	854.1
9/15/2019 13:00	9/15/2019 14:00	847.2
9/15/2019 14:00	9/15/2019 15:00	818.3
9/15/2019 15:00	9/15/2019 16:00	826.6
9/15/2019 16:00	9/15/2019 17:00	818.5
9/15/2019 17:00	9/15/2019 18:00	819.3
9/15/2019 18:00	9/15/2019 19:00	814.6
9/15/2019 19:00	9/15/2019 20:00	902.0
9/15/2019 20:00	9/15/2019 21:00	946.4
9/15/2019 21:00	9/15/2019 22:00	880.1
9/15/2019 22:00	9/15/2019 23:00	847.9
9/15/2019 23:00	9/16/2019 0:00	778.9
9/16/2019 0:00	9/16/2019 1:00	756.3
9/16/2019 1:00	9/16/2019 2:00	733.1
9/16/2019 2:00	9/16/2019 3:00	715.6
9/16/2019 3:00	9/16/2019 4:00	719.3
9/16/2019 4:00	9/16/2019 5:00	735.6
9/16/2019 5:00	9/16/2019 6:00	781.4
9/16/2019 6:00	9/16/2019 7:00	880.6
9/16/2019 7:00	9/16/2019 8:00	912.8
9/16/2019 8:00	9/16/2019 9:00	906.2
9/16/2019 9:00	9/16/2019 10:00	951.2
9/16/2019 10:00	9/16/2019 11:00	940.6
9/16/2019 11:00	9/16/2019 12:00	936.1
9/16/2019 12:00	9/16/2019 13:00	925.0
9/16/2019 13:00	9/16/2019 14:00	912.3
9/16/2019 14:00	9/16/2019 15:00	890.2
9/16/2019 15:00	9/16/2019 16:00	891.1
9/16/2019 16:00	9/16/2019 17:00	922.4
9/16/2019 17:00	9/16/2019 18:00	938.0
9/16/2019 18:00	9/16/2019 19:00	925.6
9/16/2019 19:00	9/16/2019 20:00	947.6
9/16/2019 20:00	9/16/2019 21:00	938.5
9/16/2019 21:00	9/16/2019 22:00	919.1
9/16/2019 22:00	9/16/2019 23:00	877.1
9/16/2019 23:00	9/17/2019 0:00	849.9
9/17/2019 0:00	9/17/2019 1:00	773.1
9/17/2019 1:00	9/17/2019 2:00	693.7
9/17/2019 2:00	9/17/2019 3:00	653.4
9/17/2019 3:00	9/17/2019 4:00	635.8
9/17/2019 4:00	9/17/2019 5:00	624.8
9/17/2019 5:00	9/17/2019 6:00	633.8
9/17/2019 6:00	9/17/2019 7:00	658.0
9/17/2019 7:00	9/17/2019 8:00	707.4
9/17/2019 8:00	9/17/2019 9:00	718.7
9/17/2019 9:00	9/17/2019 10:00	720.2
9/17/2019 10:00	9/17/2019 11:00	688.8
9/17/2019 11:00	9/17/2019 12:00	694.4
9/17/2019 12:00	9/17/2019 13:00	725.1
9/17/2019 13:00	9/17/2019 14:00	713.2
9/17/2019 14:00	9/17/2019 15:00	690.0

Start Time	End Time	ANL_MW
9/17/2019 15:00	9/17/2019 16:00	687.7
9/17/2019 16:00	9/17/2019 17:00	717.0
9/17/2019 17:00	9/17/2019 18:00	749.0
9/17/2019 18:00	9/17/2019 19:00	770.4
9/17/2019 19:00	9/17/2019 20:00	805.9
9/17/2019 20:00	9/17/2019 21:00	825.0
9/17/2019 21:00	9/17/2019 22:00	812.6
9/17/2019 22:00	9/17/2019 23:00	824.6
9/17/2019 23:00	9/18/2019 0:00	820.8
9/18/2019 0:00	9/18/2019 1:00	771.3
9/18/2019 1:00	9/18/2019 2:00	753.6
9/18/2019 2:00	9/18/2019 3:00	710.5
9/18/2019 3:00	9/18/2019 4:00	671.2
9/18/2019 4:00	9/18/2019 5:00	647.6
9/18/2019 5:00	9/18/2019 6:00	648.4
9/18/2019 6:00	9/18/2019 7:00	747.5
9/18/2019 7:00	9/18/2019 8:00	812.2
9/18/2019 8:00	9/18/2019 9:00	866.9
9/18/2019 9:00	9/18/2019 10:00	831.2
9/18/2019 10:00	9/18/2019 11:00	779.3
9/18/2019 11:00	9/18/2019 12:00	768.7
9/18/2019 12:00	9/18/2019 13:00	756.7
9/18/2019 13:00	9/18/2019 14:00	730.0
9/18/2019 14:00	9/18/2019 15:00	717.7
9/18/2019 15:00	9/18/2019 16:00	722.9
9/18/2019 16:00	9/18/2019 17:00	777.9
9/18/2019 17:00	9/18/2019 18:00	831.8
9/18/2019 18:00	9/18/2019 19:00	856.1
9/18/2019 19:00	9/18/2019 20:00	902.8
9/18/2019 20:00	9/18/2019 21:00	913.3
9/18/2019 21:00	9/18/2019 22:00	893.3
9/18/2019 22:00	9/18/2019 23:00	866.3
9/18/2019 23:00	9/19/2019 0:00	896.4
9/19/2019 0:00	9/19/2019 1:00	859.6
9/19/2019 1:00	9/19/2019 2:00	819.9
9/19/2019 2:00	9/19/2019 3:00	807.8
9/19/2019 3:00	9/19/2019 4:00	795.2
9/19/2019 4:00	9/19/2019 5:00	831.2
9/19/2019 5:00	9/19/2019 6:00	891.8
9/19/2019 6:00	9/19/2019 7:00	992.5
9/19/2019 7:00	9/19/2019 8:00	1067.4
9/19/2019 8:00	9/19/2019 9:00	1048.0
9/19/2019 9:00	9/19/2019 10:00	1066.5
9/19/2019 10:00	9/19/2019 11:00	1050.3
9/19/2019 11:00	9/19/2019 12:00	1039.4
9/19/2019 12:00	9/19/2019 13:00	1011.2
9/19/2019 13:00	9/19/2019 14:00	1015.6
9/19/2019 14:00	9/19/2019 15:00	1005.5
9/19/2019 15:00	9/19/2019 16:00	1007.5
9/19/2019 16:00	9/19/2019 17:00	1026.0
9/19/2019 17:00	9/19/2019 18:00	1042.9
9/19/2019 18:00	9/19/2019 19:00	1030.3
9/19/2019 19:00	9/19/2019 20:00	1059.7
9/19/2019 20:00	9/19/2019 21:00	1074.1
9/19/2019 21:00	9/19/2019 22:00	1024.5
9/19/2019 22:00	9/19/2019 23:00	937.2
9/19/2019 23:00	9/20/2019 0:00	927.4
9/20/2019 0:00	9/20/2019 1:00	873.2
9/20/2019 1:00	9/20/2019 2:00	841.2
9/20/2019 2:00	9/20/2019 3:00	831.0
9/20/2019 3:00	9/20/2019 4:00	880.8
9/20/2019 4:00	9/20/2019 5:00	875.5
9/20/2019 5:00	9/20/2019 6:00	938.2
9/20/2019 6:00	9/20/2019 7:00	1002.7
9/20/2019 7:00	9/20/2019 8:00	1039.5
9/20/2019 8:00	9/20/2019 9:00	1081.6
9/20/2019 9:00	9/20/2019 10:00	1144.0
9/20/2019 10:00	9/20/2019 11:00	1087.2
9/20/2019 11:00	9/20/2019 12:00	1080.5
9/20/2019 12:00	9/20/2019 13:00	1056.3

Start Time	End Time	ANL_MW
9/20/2019 13:00	9/20/2019 14:00	1030.5
9/20/2019 14:00	9/20/2019 15:00	1006.0
9/20/2019 15:00	9/20/2019 16:00	990.2
9/20/2019 16:00	9/20/2019 17:00	986.8
9/20/2019 17:00	9/20/2019 18:00	1016.9
9/20/2019 18:00	9/20/2019 19:00	998.1
9/20/2019 19:00	9/20/2019 20:00	958.6
9/20/2019 20:00	9/20/2019 21:00	939.2
9/20/2019 21:00	9/20/2019 22:00	841.4
9/20/2019 22:00	9/20/2019 23:00	774.8
9/20/2019 23:00	9/21/2019 0:00	714.3
9/21/2019 0:00	9/21/2019 1:00	665.0
9/21/2019 1:00	9/21/2019 2:00	633.4
9/21/2019 2:00	9/21/2019 3:00	636.6
9/21/2019 3:00	9/21/2019 4:00	657.7
9/21/2019 4:00	9/21/2019 5:00	664.5
9/21/2019 5:00	9/21/2019 6:00	704.3
9/21/2019 6:00	9/21/2019 7:00	730.7
9/21/2019 7:00	9/21/2019 8:00	770.3
9/21/2019 8:00	9/21/2019 9:00	883.1
9/21/2019 9:00	9/21/2019 10:00	903.4
9/21/2019 10:00	9/21/2019 11:00	916.5
9/21/2019 11:00	9/21/2019 12:00	922.1
9/21/2019 12:00	9/21/2019 13:00	874.8
9/21/2019 13:00	9/21/2019 14:00	840.2
9/21/2019 14:00	9/21/2019 15:00	830.2
9/21/2019 15:00	9/21/2019 16:00	844.1
9/21/2019 16:00	9/21/2019 17:00	880.8
9/21/2019 17:00	9/21/2019 18:00	927.9
9/21/2019 18:00	9/21/2019 19:00	985.6
9/21/2019 19:00	9/21/2019 20:00	977.8
9/21/2019 20:00	9/21/2019 21:00	1022.3
9/21/2019 21:00	9/21/2019 22:00	1003.9
9/21/2019 22:00	9/21/2019 23:00	960.2
9/21/2019 23:00	9/22/2019 0:00	907.0
9/22/2019 0:00	9/22/2019 1:00	866.7
9/22/2019 1:00	9/22/2019 2:00	847.5
9/22/2019 2:00	9/22/2019 3:00	795.8
9/22/2019 3:00	9/22/2019 4:00	761.3
9/22/2019 4:00	9/22/2019 5:00	716.6
9/22/2019 5:00	9/22/2019 6:00	695.5
9/22/2019 6:00	9/22/2019 7:00	692.7
9/22/2019 7:00	9/22/2019 8:00	719.8
9/22/2019 8:00	9/22/2019 9:00	821.6
9/22/2019 9:00	9/22/2019 10:00	978.6
9/22/2019 10:00	9/22/2019 11:00	997.4
9/22/2019 11:00	9/22/2019 12:00	959.9
9/22/2019 12:00	9/22/2019 13:00	918.0
9/22/2019 13:00	9/22/2019 14:00	862.4
9/22/2019 14:00	9/22/2019 15:00	799.9
9/22/2019 15:00	9/22/2019 16:00	763.3
9/22/2019 16:00	9/22/2019 17:00	783.1
9/22/2019 17:00	9/22/2019 18:00	826.3
9/22/2019 18:00	9/22/2019 19:00	862.5
9/22/2019 19:00	9/22/2019 20:00	800.9
9/22/2019 20:00	9/22/2019 21:00	732.4
9/22/2019 21:00	9/22/2019 22:00	631.7
9/22/2019 22:00	9/22/2019 23:00	533.2
9/22/2019 23:00	9/23/2019 0:00	460.3
9/23/2019 0:00	9/23/2019 1:00	404.9
9/23/2019 1:00	9/23/2019 2:00	364.6
9/23/2019 2:00	9/23/2019 3:00	357.2
9/23/2019 3:00	9/23/2019 4:00	347.8
9/23/2019 4:00	9/23/2019 5:00	357.5
9/23/2019 5:00	9/23/2019 6:00	387.4
9/23/2019 6:00	9/23/2019 7:00	513.0
9/23/2019 7:00	9/23/2019 8:00	633.2
9/23/2019 8:00	9/23/2019 9:00	675.3
9/23/2019 9:00	9/23/2019 10:00	682.2
9/23/2019 10:00	9/23/2019 11:00	710.6

Start Time	End Time	ANL_MW
9/23/2019 11:00	9/23/2019 12:00	759.9
9/23/2019 12:00	9/23/2019 13:00	779.9
9/23/2019 13:00	9/23/2019 14:00	812.7
9/23/2019 14:00	9/23/2019 15:00	838.0
9/23/2019 15:00	9/23/2019 16:00	897.7
9/23/2019 16:00	9/23/2019 17:00	924.0
9/23/2019 17:00	9/23/2019 18:00	944.0
9/23/2019 18:00	9/23/2019 19:00	910.4
9/23/2019 19:00	9/23/2019 20:00	912.6
9/23/2019 20:00	9/23/2019 21:00	887.6
9/23/2019 21:00	9/23/2019 22:00	903.6
9/23/2019 22:00	9/23/2019 23:00	891.4
9/23/2019 23:00	9/24/2019 0:00	847.8
9/24/2019 0:00	9/24/2019 1:00	813.5
9/24/2019 1:00	9/24/2019 2:00	799.9
9/24/2019 2:00	9/24/2019 3:00	790.8
9/24/2019 3:00	9/24/2019 4:00	771.1
9/24/2019 4:00	9/24/2019 5:00	763.6
9/24/2019 5:00	9/24/2019 6:00	793.5
9/24/2019 6:00	9/24/2019 7:00	869.6
9/24/2019 7:00	9/24/2019 8:00	915.7
9/24/2019 8:00	9/24/2019 9:00	952.4
9/24/2019 9:00	9/24/2019 10:00	996.1
9/24/2019 10:00	9/24/2019 11:00	1016.4
9/24/2019 11:00	9/24/2019 12:00	1061.7
9/24/2019 12:00	9/24/2019 13:00	1089.4
9/24/2019 13:00	9/24/2019 14:00	1083.8
9/24/2019 14:00	9/24/2019 15:00	1075.6
9/24/2019 15:00	9/24/2019 16:00	1074.0
9/24/2019 16:00	9/24/2019 17:00	1090.8
9/24/2019 17:00	9/24/2019 18:00	1085.7
9/24/2019 18:00	9/24/2019 19:00	987.3
9/24/2019 19:00	9/24/2019 20:00	979.5
9/24/2019 20:00	9/24/2019 21:00	920.2
9/24/2019 21:00	9/24/2019 22:00	853.6
9/24/2019 22:00	9/24/2019 23:00	818.6
9/24/2019 23:00	9/25/2019 0:00	764.0
9/25/2019 0:00	9/25/2019 1:00	737.4
9/25/2019 1:00	9/25/2019 2:00	773.6
9/25/2019 2:00	9/25/2019 3:00	803.3
9/25/2019 3:00	9/25/2019 4:00	800.3
9/25/2019 4:00	9/25/2019 5:00	803.0
9/25/2019 5:00	9/25/2019 6:00	862.3
9/25/2019 6:00	9/25/2019 7:00	964.3
9/25/2019 7:00	9/25/2019 8:00	1029.6
9/25/2019 8:00	9/25/2019 9:00	1023.9
9/25/2019 9:00	9/25/2019 10:00	1047.1
9/25/2019 10:00	9/25/2019 11:00	1054.3
9/25/2019 11:00	9/25/2019 12:00	1068.2
9/25/2019 12:00	9/25/2019 13:00	1064.9
9/25/2019 13:00	9/25/2019 14:00	1053.3
9/25/2019 14:00	9/25/2019 15:00	1032.0
9/25/2019 15:00	9/25/2019 16:00	981.1
9/25/2019 16:00	9/25/2019 17:00	979.9
9/25/2019 17:00	9/25/2019 18:00	1018.7
9/25/2019 18:00	9/25/2019 19:00	1003.7
9/25/2019 19:00	9/25/2019 20:00	1021.4
9/25/2019 20:00	9/25/2019 21:00	1058.4
9/25/2019 21:00	9/25/2019 22:00	991.4
9/25/2019 22:00	9/25/2019 23:00	912.2
9/25/2019 23:00	9/26/2019 0:00	870.0
9/26/2019 0:00	9/26/2019 1:00	801.8
9/26/2019 1:00	9/26/2019 2:00	768.9
9/26/2019 2:00	9/26/2019 3:00	744.9
9/26/2019 3:00	9/26/2019 4:00	755.8
9/26/2019 4:00	9/26/2019 5:00	750.5
9/26/2019 5:00	9/26/2019 6:00	787.6
9/26/2019 6:00	9/26/2019 7:00	930.9
9/26/2019 7:00	9/26/2019 8:00	1009.0
9/26/2019 8:00	9/26/2019 9:00	1013.0

Start Time	End Time	ANL_MW
9/26/2019 9:00	9/26/2019 10:00	1055.9
9/26/2019 10:00	9/26/2019 11:00	1028.6
9/26/2019 11:00	9/26/2019 12:00	1016.1
9/26/2019 12:00	9/26/2019 13:00	1015.2
9/26/2019 13:00	9/26/2019 14:00	1005.3
9/26/2019 14:00	9/26/2019 15:00	981.3
9/26/2019 15:00	9/26/2019 16:00	970.4
9/26/2019 16:00	9/26/2019 17:00	992.9
9/26/2019 17:00	9/26/2019 18:00	983.0
9/26/2019 18:00	9/26/2019 19:00	955.8
9/26/2019 19:00	9/26/2019 20:00	975.7
9/26/2019 20:00	9/26/2019 21:00	879.8
9/26/2019 21:00	9/26/2019 22:00	830.9
9/26/2019 22:00	9/26/2019 23:00	781.5
9/26/2019 23:00	9/27/2019 0:00	736.5
9/27/2019 0:00	9/27/2019 1:00	670.0
9/27/2019 1:00	9/27/2019 2:00	617.0
9/27/2019 2:00	9/27/2019 3:00	600.8
9/27/2019 3:00	9/27/2019 4:00	611.1
9/27/2019 4:00	9/27/2019 5:00	650.9
9/27/2019 5:00	9/27/2019 6:00	662.7
9/27/2019 6:00	9/27/2019 7:00	757.7
9/27/2019 7:00	9/27/2019 8:00	779.3
9/27/2019 8:00	9/27/2019 9:00	821.0
9/27/2019 9:00	9/27/2019 10:00	847.6
9/27/2019 10:00	9/27/2019 11:00	915.2
9/27/2019 11:00	9/27/2019 12:00	932.1
9/27/2019 12:00	9/27/2019 13:00	923.0
9/27/2019 13:00	9/27/2019 14:00	926.7
9/27/2019 14:00	9/27/2019 15:00	919.0
9/27/2019 15:00	9/27/2019 16:00	928.3
9/27/2019 16:00	9/27/2019 17:00	967.4
9/27/2019 17:00	9/27/2019 18:00	1045.5
9/27/2019 18:00	9/27/2019 19:00	1067.5
9/27/2019 19:00	9/27/2019 20:00	1084.0
9/27/2019 20:00	9/27/2019 21:00	1061.4
9/27/2019 21:00	9/27/2019 22:00	974.4
9/27/2019 22:00	9/27/2019 23:00	924.2
9/27/2019 23:00	9/28/2019 0:00	880.7
9/28/2019 0:00	9/28/2019 1:00	791.8
9/28/2019 1:00	9/28/2019 2:00	651.9
9/28/2019 2:00	9/28/2019 3:00	640.2
9/28/2019 3:00	9/28/2019 4:00	694.7
9/28/2019 4:00	9/28/2019 5:00	775.9
9/28/2019 5:00	9/28/2019 6:00	745.5
9/28/2019 6:00	9/28/2019 7:00	822.5
9/28/2019 7:00	9/28/2019 8:00	895.7
9/28/2019 8:00	9/28/2019 9:00	983.0
9/28/2019 9:00	9/28/2019 10:00	1030.9
9/28/2019 10:00	9/28/2019 11:00	1054.3
9/28/2019 11:00	9/28/2019 12:00	1006.7
9/28/2019 12:00	9/28/2019 13:00	950.7
9/28/2019 13:00	9/28/2019 14:00	885.2
9/28/2019 14:00	9/28/2019 15:00	828.1
9/28/2019 15:00	9/28/2019 16:00	802.2
9/28/2019 16:00	9/28/2019 17:00	839.6
9/28/2019 17:00	9/28/2019 18:00	862.9
9/28/2019 18:00	9/28/2019 19:00	849.4
9/28/2019 19:00	9/28/2019 20:00	900.6
9/28/2019 20:00	9/28/2019 21:00	902.1
9/28/2019 21:00	9/28/2019 22:00	844.9
9/28/2019 22:00	9/28/2019 23:00	748.7
9/28/2019 23:00	9/29/2019 0:00	618.6
9/29/2019 0:00	9/29/2019 1:00	565.0
9/29/2019 1:00	9/29/2019 2:00	561.1
9/29/2019 2:00	9/29/2019 3:00	555.3
9/29/2019 3:00	9/29/2019 4:00	602.6
9/29/2019 4:00	9/29/2019 5:00	645.9
9/29/2019 5:00	9/29/2019 6:00	703.9
9/29/2019 6:00	9/29/2019 7:00	709.0

Start Time	End Time	ANL_MW
9/29/2019 7:00	9/29/2019 8:00	737.4
9/29/2019 8:00	9/29/2019 9:00	818.5
9/29/2019 9:00	9/29/2019 10:00	886.1
9/29/2019 10:00	9/29/2019 11:00	839.4
9/29/2019 11:00	9/29/2019 12:00	821.7
9/29/2019 12:00	9/29/2019 13:00	796.5
9/29/2019 13:00	9/29/2019 14:00	778.9
9/29/2019 14:00	9/29/2019 15:00	756.7
9/29/2019 15:00	9/29/2019 16:00	743.9
9/29/2019 16:00	9/29/2019 17:00	781.6
9/29/2019 17:00	9/29/2019 18:00	794.6
9/29/2019 18:00	9/29/2019 19:00	831.4
9/29/2019 19:00	9/29/2019 20:00	926.7
9/29/2019 20:00	9/29/2019 21:00	909.6
9/29/2019 21:00	9/29/2019 22:00	822.6
9/29/2019 22:00	9/29/2019 23:00	749.8
9/29/2019 23:00	9/30/2019 0:00	680.0
9/30/2019 0:00	9/30/2019 1:00	623.8
9/30/2019 1:00	9/30/2019 2:00	566.4
9/30/2019 2:00	9/30/2019 3:00	539.0
9/30/2019 3:00	9/30/2019 4:00	508.9
9/30/2019 4:00	9/30/2019 5:00	530.7
9/30/2019 5:00	9/30/2019 6:00	569.7
9/30/2019 6:00	9/30/2019 7:00	689.7
9/30/2019 7:00	9/30/2019 8:00	833.8
9/30/2019 8:00	9/30/2019 9:00	939.2
9/30/2019 9:00	9/30/2019 10:00	939.0
9/30/2019 10:00	9/30/2019 11:00	879.1
9/30/2019 11:00	9/30/2019 12:00	906.9
9/30/2019 12:00	9/30/2019 13:00	924.6
9/30/2019 13:00	9/30/2019 14:00	929.7
9/30/2019 14:00	9/30/2019 15:00	921.8
9/30/2019 15:00	9/30/2019 16:00	943.6
9/30/2019 16:00	9/30/2019 17:00	1008.5
9/30/2019 17:00	9/30/2019 18:00	1061.7
9/30/2019 18:00	9/30/2019 19:00	1094.1
9/30/2019 19:00	9/30/2019 20:00	1135.4
9/30/2019 20:00	9/30/2019 21:00	1127.5
9/30/2019 21:00	9/30/2019 22:00	1081.4
9/30/2019 22:00	9/30/2019 23:00	1016.9
9/30/2019 23:00	10/1/2019 0:00	965.8
10/1/2019 0:00	10/1/2019 1:00	910.9
10/1/2019 1:00	10/1/2019 2:00	869.6
10/1/2019 2:00	10/1/2019 3:00	831.1
10/1/2019 3:00	10/1/2019 4:00	799.7
10/1/2019 4:00	10/1/2019 5:00	788.4
10/1/2019 5:00	10/1/2019 6:00	865.6
10/1/2019 6:00	10/1/2019 7:00	980.9
10/1/2019 7:00	10/1/2019 8:00	1058.7
10/1/2019 8:00	10/1/2019 9:00	1067.4
10/1/2019 9:00	10/1/2019 10:00	1084.6
10/1/2019 10:00	10/1/2019 11:00	1101.3
10/1/2019 11:00	10/1/2019 12:00	1100.6
10/1/2019 12:00	10/1/2019 13:00	1083.3
10/1/2019 13:00	10/1/2019 14:00	1056.2
10/1/2019 14:00	10/1/2019 15:00	1032.2
10/1/2019 15:00	10/1/2019 16:00	1043.4
10/1/2019 16:00	10/1/2019 17:00	1079.8
10/1/2019 17:00	10/1/2019 18:00	1109.7
10/1/2019 18:00	10/1/2019 19:00	1106.4
10/1/2019 19:00	10/1/2019 20:00	1079.5
10/1/2019 20:00	10/1/2019 21:00	949.1
10/1/2019 21:00	10/1/2019 22:00	884.6
10/1/2019 22:00	10/1/2019 23:00	732.2
10/1/2019 23:00	10/2/2019 0:00	681.9
10/2/2019 0:00	10/2/2019 1:00	586.9
10/2/2019 1:00	10/2/2019 2:00	533.8
10/2/2019 2:00	10/2/2019 3:00	549.6
10/2/2019 3:00	10/2/2019 4:00	551.7
10/2/2019 4:00	10/2/2019 5:00	602.8

Start Time	End Time	ANL_MW
10/2/2019 5:00	10/2/2019 6:00	720.9
10/2/2019 6:00	10/2/2019 7:00	872.3
10/2/2019 7:00	10/2/2019 8:00	942.2
10/2/2019 8:00	10/2/2019 9:00	902.1
10/2/2019 9:00	10/2/2019 10:00	927.5
10/2/2019 10:00	10/2/2019 11:00	920.4
10/2/2019 11:00	10/2/2019 12:00	891.7
10/2/2019 12:00	10/2/2019 13:00	877.8
10/2/2019 13:00	10/2/2019 14:00	848.0
10/2/2019 14:00	10/2/2019 15:00	791.7
10/2/2019 15:00	10/2/2019 16:00	919.1
10/2/2019 16:00	10/2/2019 17:00	966.1
10/2/2019 17:00	10/2/2019 18:00	931.2
10/2/2019 18:00	10/2/2019 19:00	948.9
10/2/2019 19:00	10/2/2019 20:00	960.7
10/2/2019 20:00	10/2/2019 21:00	952.3
10/2/2019 21:00	10/2/2019 22:00	936.5
10/2/2019 22:00	10/2/2019 23:00	864.6
10/2/2019 23:00	10/3/2019 0:00	856.7
10/3/2019 0:00	10/3/2019 1:00	853.3
10/3/2019 1:00	10/3/2019 2:00	817.2
10/3/2019 2:00	10/3/2019 3:00	746.1
10/3/2019 3:00	10/3/2019 4:00	752.9
10/3/2019 4:00	10/3/2019 5:00	755.2
10/3/2019 5:00	10/3/2019 6:00	769.0
10/3/2019 6:00	10/3/2019 7:00	906.6
10/3/2019 7:00	10/3/2019 8:00	988.4
10/3/2019 8:00	10/3/2019 9:00	1050.6
10/3/2019 9:00	10/3/2019 10:00	1020.2
10/3/2019 10:00	10/3/2019 11:00	1018.2
10/3/2019 11:00	10/3/2019 12:00	1017.9
10/3/2019 12:00	10/3/2019 13:00	1019.1
10/3/2019 13:00	10/3/2019 14:00	996.7
10/3/2019 14:00	10/3/2019 15:00	991.2
10/3/2019 15:00	10/3/2019 16:00	1040.8
10/3/2019 16:00	10/3/2019 17:00	1084.8
10/3/2019 17:00	10/3/2019 18:00	1107.4
10/3/2019 18:00	10/3/2019 19:00	1116.7
10/3/2019 19:00	10/3/2019 20:00	1165.9
10/3/2019 20:00	10/3/2019 21:00	1138.0
10/3/2019 21:00	10/3/2019 22:00	1071.3
10/3/2019 22:00	10/3/2019 23:00	996.8
10/3/2019 23:00	10/4/2019 0:00	962.7
10/4/2019 0:00	10/4/2019 1:00	944.9
10/4/2019 1:00	10/4/2019 2:00	964.8
10/4/2019 2:00	10/4/2019 3:00	938.6
10/4/2019 3:00	10/4/2019 4:00	919.5
10/4/2019 4:00	10/4/2019 5:00	929.0
10/4/2019 5:00	10/4/2019 6:00	989.4
10/4/2019 6:00	10/4/2019 7:00	1142.2
10/4/2019 7:00	10/4/2019 8:00	1247.5
10/4/2019 8:00	10/4/2019 9:00	1256.4
10/4/2019 9:00	10/4/2019 10:00	1264.2
10/4/2019 10:00	10/4/2019 11:00	1253.2
10/4/2019 11:00	10/4/2019 12:00	1235.1
10/4/2019 12:00	10/4/2019 13:00	1207.7
10/4/2019 13:00	10/4/2019 14:00	1143.0
10/4/2019 14:00	10/4/2019 15:00	1102.3
10/4/2019 15:00	10/4/2019 16:00	1060.7
10/4/2019 16:00	10/4/2019 17:00	1044.7
10/4/2019 17:00	10/4/2019 18:00	1097.1
10/4/2019 18:00	10/4/2019 19:00	1075.0
10/4/2019 19:00	10/4/2019 20:00	1053.9
10/4/2019 20:00	10/4/2019 21:00	1019.7
10/4/2019 21:00	10/4/2019 22:00	918.2
10/4/2019 22:00	10/4/2019 23:00	812.8
10/4/2019 23:00	10/5/2019 0:00	812.1
10/5/2019 0:00	10/5/2019 1:00	781.0
10/5/2019 1:00	10/5/2019 2:00	746.1
10/5/2019 2:00	10/5/2019 3:00	723.5

Start Time	End Time	ANL_MW
10/5/2019 3:00	10/5/2019 4:00	660.9
10/5/2019 4:00	10/5/2019 5:00	671.9
10/5/2019 5:00	10/5/2019 6:00	670.2
10/5/2019 6:00	10/5/2019 7:00	697.7
10/5/2019 7:00	10/5/2019 8:00	766.4
10/5/2019 8:00	10/5/2019 9:00	883.6
10/5/2019 9:00	10/5/2019 10:00	928.5
10/5/2019 10:00	10/5/2019 11:00	929.5
10/5/2019 11:00	10/5/2019 12:00	916.2
10/5/2019 12:00	10/5/2019 13:00	911.4
10/5/2019 13:00	10/5/2019 14:00	889.0
10/5/2019 14:00	10/5/2019 15:00	874.3
10/5/2019 15:00	10/5/2019 16:00	858.5
10/5/2019 16:00	10/5/2019 17:00	892.8
10/5/2019 17:00	10/5/2019 18:00	881.7
10/5/2019 18:00	10/5/2019 19:00	941.6
10/5/2019 19:00	10/5/2019 20:00	973.1
10/5/2019 20:00	10/5/2019 21:00	941.1
10/5/2019 21:00	10/5/2019 22:00	924.2
10/5/2019 22:00	10/5/2019 23:00	904.3
10/5/2019 23:00	10/6/2019 0:00	895.8
10/6/2019 0:00	10/6/2019 1:00	890.3
10/6/2019 1:00	10/6/2019 2:00	907.5
10/6/2019 2:00	10/6/2019 3:00	938.8
10/6/2019 3:00	10/6/2019 4:00	974.9
10/6/2019 4:00	10/6/2019 5:00	1004.5
10/6/2019 5:00	10/6/2019 6:00	1036.2
10/6/2019 6:00	10/6/2019 7:00	1093.9
10/6/2019 7:00	10/6/2019 8:00	1148.1
10/6/2019 8:00	10/6/2019 9:00	1177.1
10/6/2019 9:00	10/6/2019 10:00	1176.5
10/6/2019 10:00	10/6/2019 11:00	1155.3
10/6/2019 11:00	10/6/2019 12:00	1115.0
10/6/2019 12:00	10/6/2019 13:00	1079.6
10/6/2019 13:00	10/6/2019 14:00	1011.4
10/6/2019 14:00	10/6/2019 15:00	941.0
10/6/2019 15:00	10/6/2019 16:00	903.0
10/6/2019 16:00	10/6/2019 17:00	943.1
10/6/2019 17:00	10/6/2019 18:00	954.1
10/6/2019 18:00	10/6/2019 19:00	909.6
10/6/2019 19:00	10/6/2019 20:00	858.7
10/6/2019 20:00	10/6/2019 21:00	758.0
10/6/2019 21:00	10/6/2019 22:00	685.5
10/6/2019 22:00	10/6/2019 23:00	566.2
10/6/2019 23:00	10/7/2019 0:00	495.4
10/7/2019 0:00	10/7/2019 1:00	447.0
10/7/2019 1:00	10/7/2019 2:00	430.5
10/7/2019 2:00	10/7/2019 3:00	366.1
10/7/2019 3:00	10/7/2019 4:00	373.2
10/7/2019 4:00	10/7/2019 5:00	380.2
10/7/2019 5:00	10/7/2019 6:00	436.1
10/7/2019 6:00	10/7/2019 7:00	535.8
10/7/2019 7:00	10/7/2019 8:00	638.8
10/7/2019 8:00	10/7/2019 9:00	685.0
10/7/2019 9:00	10/7/2019 10:00	725.2
10/7/2019 10:00	10/7/2019 11:00	760.6
10/7/2019 11:00	10/7/2019 12:00	784.7
10/7/2019 12:00	10/7/2019 13:00	764.9
10/7/2019 13:00	10/7/2019 14:00	727.5
10/7/2019 14:00	10/7/2019 15:00	709.1
10/7/2019 15:00	10/7/2019 16:00	724.9
10/7/2019 16:00	10/7/2019 17:00	731.3
10/7/2019 17:00	10/7/2019 18:00	733.2
10/7/2019 18:00	10/7/2019 19:00	769.1
10/7/2019 19:00	10/7/2019 20:00	799.7
10/7/2019 20:00	10/7/2019 21:00	725.8
10/7/2019 21:00	10/7/2019 22:00	652.2
10/7/2019 22:00	10/7/2019 23:00	576.2
10/7/2019 23:00	10/8/2019 0:00	522.4
10/8/2019 0:00	10/8/2019 1:00	468.9

Start Time	End Time	ANL_MW
10/8/2019 1:00	10/8/2019 2:00	444.2
10/8/2019 2:00	10/8/2019 3:00	438.0
10/8/2019 3:00	10/8/2019 4:00	455.5
10/8/2019 4:00	10/8/2019 5:00	525.7
10/8/2019 5:00	10/8/2019 6:00	670.8
10/8/2019 6:00	10/8/2019 7:00	843.6
10/8/2019 7:00	10/8/2019 8:00	1021.8
10/8/2019 8:00	10/8/2019 9:00	1098.5
10/8/2019 9:00	10/8/2019 10:00	1136.0
10/8/2019 10:00	10/8/2019 11:00	1134.0
10/8/2019 11:00	10/8/2019 12:00	1146.8
10/8/2019 12:00	10/8/2019 13:00	1142.2
10/8/2019 13:00	10/8/2019 14:00	1077.1
10/8/2019 14:00	10/8/2019 15:00	1029.3
10/8/2019 15:00	10/8/2019 16:00	1038.1
10/8/2019 16:00	10/8/2019 17:00	1099.7
10/8/2019 17:00	10/8/2019 18:00	1113.9
10/8/2019 18:00	10/8/2019 19:00	1120.9
10/8/2019 19:00	10/8/2019 20:00	1146.4
10/8/2019 20:00	10/8/2019 21:00	1110.5
10/8/2019 21:00	10/8/2019 22:00	1049.0
10/8/2019 22:00	10/8/2019 23:00	956.0
10/8/2019 23:00	10/9/2019 0:00	886.4
10/9/2019 0:00	10/9/2019 1:00	817.5
10/9/2019 1:00	10/9/2019 2:00	790.0
10/9/2019 2:00	10/9/2019 3:00	763.0
10/9/2019 3:00	10/9/2019 4:00	709.0
10/9/2019 4:00	10/9/2019 5:00	728.9
10/9/2019 5:00	10/9/2019 6:00	783.3
10/9/2019 6:00	10/9/2019 7:00	944.4
10/9/2019 7:00	10/9/2019 8:00	1061.5
10/9/2019 8:00	10/9/2019 9:00	1078.3
10/9/2019 9:00	10/9/2019 10:00	1093.5
10/9/2019 10:00	10/9/2019 11:00	1079.2
10/9/2019 11:00	10/9/2019 12:00	1044.6
10/9/2019 12:00	10/9/2019 13:00	1049.3
10/9/2019 13:00	10/9/2019 14:00	1050.6
10/9/2019 14:00	10/9/2019 15:00	1042.4
10/9/2019 15:00	10/9/2019 16:00	1058.2
10/9/2019 16:00	10/9/2019 17:00	1050.1
10/9/2019 17:00	10/9/2019 18:00	1068.5
10/9/2019 18:00	10/9/2019 19:00	1052.2
10/9/2019 19:00	10/9/2019 20:00	1053.8
10/9/2019 20:00	10/9/2019 21:00	1059.6
10/9/2019 21:00	10/9/2019 22:00	1002.4
10/9/2019 22:00	10/9/2019 23:00	896.5
10/9/2019 23:00	10/10/2019 0:00	837.1
10/10/2019 0:00	10/10/2019 1:00	792.3
10/10/2019 1:00	10/10/2019 2:00	742.2
10/10/2019 2:00	10/10/2019 3:00	697.6
10/10/2019 3:00	10/10/2019 4:00	681.6
10/10/2019 4:00	10/10/2019 5:00	670.1
10/10/2019 5:00	10/10/2019 6:00	731.4
10/10/2019 6:00	10/10/2019 7:00	870.0
10/10/2019 7:00	10/10/2019 8:00	961.0
10/10/2019 8:00	10/10/2019 9:00	1011.3
10/10/2019 9:00	10/10/2019 10:00	1046.2
10/10/2019 10:00	10/10/2019 11:00	1077.6
10/10/2019 11:00	10/10/2019 12:00	1090.1
10/10/2019 12:00	10/10/2019 13:00	1060.5
10/10/2019 13:00	10/10/2019 14:00	1054.6
10/10/2019 14:00	10/10/2019 15:00	1022.4
10/10/2019 15:00	10/10/2019 16:00	964.7
10/10/2019 16:00	10/10/2019 17:00	987.2
10/10/2019 17:00	10/10/2019 18:00	991.2
10/10/2019 18:00	10/10/2019 19:00	970.0
10/10/2019 19:00	10/10/2019 20:00	940.2
10/10/2019 20:00	10/10/2019 21:00	894.6
10/10/2019 21:00	10/10/2019 22:00	821.5
10/10/2019 22:00	10/10/2019 23:00	719.1

Start Time	End Time	ANL_MW
10/10/2019 23:00	10/11/2019 0:00	660.8
10/11/2019 0:00	10/11/2019 1:00	597.5
10/11/2019 1:00	10/11/2019 2:00	546.3
10/11/2019 2:00	10/11/2019 3:00	538.6
10/11/2019 3:00	10/11/2019 4:00	547.0
10/11/2019 4:00	10/11/2019 5:00	555.0
10/11/2019 5:00	10/11/2019 6:00	609.5
10/11/2019 6:00	10/11/2019 7:00	725.2
10/11/2019 7:00	10/11/2019 8:00	799.3
10/11/2019 8:00	10/11/2019 9:00	804.7
10/11/2019 9:00	10/11/2019 10:00	848.8
10/11/2019 10:00	10/11/2019 11:00	867.3
10/11/2019 11:00	10/11/2019 12:00	858.5
10/11/2019 12:00	10/11/2019 13:00	799.4
10/11/2019 13:00	10/11/2019 14:00	749.8
10/11/2019 14:00	10/11/2019 15:00	711.3
10/11/2019 15:00	10/11/2019 16:00	714.9
10/11/2019 16:00	10/11/2019 17:00	735.3
10/11/2019 17:00	10/11/2019 18:00	755.1
10/11/2019 18:00	10/11/2019 19:00	715.8
10/11/2019 19:00	10/11/2019 20:00	724.5
10/11/2019 20:00	10/11/2019 21:00	686.6
10/11/2019 21:00	10/11/2019 22:00	634.7
10/11/2019 22:00	10/11/2019 23:00	562.8
10/11/2019 23:00	10/12/2019 0:00	517.5
10/12/2019 0:00	10/12/2019 1:00	453.6
10/12/2019 1:00	10/12/2019 2:00	408.3
10/12/2019 2:00	10/12/2019 3:00	371.2
10/12/2019 3:00	10/12/2019 4:00	354.5
10/12/2019 4:00	10/12/2019 5:00	338.7
10/12/2019 5:00	10/12/2019 6:00	354.7
10/12/2019 6:00	10/12/2019 7:00	394.8
10/12/2019 7:00	10/12/2019 8:00	475.7
10/12/2019 8:00	10/12/2019 9:00	554.3
10/12/2019 9:00	10/12/2019 10:00	624.6
10/12/2019 10:00	10/12/2019 11:00	664.0
10/12/2019 11:00	10/12/2019 12:00	724.3
10/12/2019 12:00	10/12/2019 13:00	767.5
10/12/2019 13:00	10/12/2019 14:00	764.0
10/12/2019 14:00	10/12/2019 15:00	770.4
10/12/2019 15:00	10/12/2019 16:00	813.9
10/12/2019 16:00	10/12/2019 17:00	877.0
10/12/2019 17:00	10/12/2019 18:00	944.9
10/12/2019 18:00	10/12/2019 19:00	1003.2
10/12/2019 19:00	10/12/2019 20:00	1037.2
10/12/2019 20:00	10/12/2019 21:00	1013.2
10/12/2019 21:00	10/12/2019 22:00	968.1
10/12/2019 22:00	10/12/2019 23:00	905.2
10/12/2019 23:00	10/13/2019 0:00	837.5
10/13/2019 0:00	10/13/2019 1:00	777.6
10/13/2019 1:00	10/13/2019 2:00	721.9
10/13/2019 2:00	10/13/2019 3:00	668.5
10/13/2019 3:00	10/13/2019 4:00	607.9
10/13/2019 4:00	10/13/2019 5:00	575.9
10/13/2019 5:00	10/13/2019 6:00	555.8
10/13/2019 6:00	10/13/2019 7:00	591.8
10/13/2019 7:00	10/13/2019 8:00	657.1
10/13/2019 8:00	10/13/2019 9:00	744.2
10/13/2019 9:00	10/13/2019 10:00	829.7
10/13/2019 10:00	10/13/2019 11:00	853.8
10/13/2019 11:00	10/13/2019 12:00	871.4
10/13/2019 12:00	10/13/2019 13:00	896.7
10/13/2019 13:00	10/13/2019 14:00	918.3
10/13/2019 14:00	10/13/2019 15:00	916.9
10/13/2019 15:00	10/13/2019 16:00	899.8
10/13/2019 16:00	10/13/2019 17:00	905.2
10/13/2019 17:00	10/13/2019 18:00	901.8
10/13/2019 18:00	10/13/2019 19:00	890.8
10/13/2019 19:00	10/13/2019 20:00	920.6
10/13/2019 20:00	10/13/2019 21:00	918.5

Start Time	End Time	ANL_MW
10/13/2019 21:00	10/13/2019 22:00	892.0
10/13/2019 22:00	10/13/2019 23:00	844.9
10/13/2019 23:00	10/14/2019 0:00	797.6
10/14/2019 0:00	10/14/2019 1:00	738.1
10/14/2019 1:00	10/14/2019 2:00	704.2
10/14/2019 2:00	10/14/2019 3:00	694.8
10/14/2019 3:00	10/14/2019 4:00	679.3
10/14/2019 4:00	10/14/2019 5:00	689.0
10/14/2019 5:00	10/14/2019 6:00	720.2
10/14/2019 6:00	10/14/2019 7:00	777.3
10/14/2019 7:00	10/14/2019 8:00	837.6
10/14/2019 8:00	10/14/2019 9:00	921.7
10/14/2019 9:00	10/14/2019 10:00	1010.5
10/14/2019 10:00	10/14/2019 11:00	1065.1
10/14/2019 11:00	10/14/2019 12:00	1091.9
10/14/2019 12:00	10/14/2019 13:00	1079.9
10/14/2019 13:00	10/14/2019 14:00	1044.3
10/14/2019 14:00	10/14/2019 15:00	1018.3
10/14/2019 15:00	10/14/2019 16:00	1009.4
10/14/2019 16:00	10/14/2019 17:00	1020.6
10/14/2019 17:00	10/14/2019 18:00	1002.5
10/14/2019 18:00	10/14/2019 19:00	984.8
10/14/2019 19:00	10/14/2019 20:00	975.1
10/14/2019 20:00	10/14/2019 21:00	919.6
10/14/2019 21:00	10/14/2019 22:00	813.5
10/14/2019 22:00	10/14/2019 23:00	733.8
10/14/2019 23:00	10/15/2019 0:00	621.4
10/15/2019 0:00	10/15/2019 1:00	542.9
10/15/2019 1:00	10/15/2019 2:00	492.0
10/15/2019 2:00	10/15/2019 3:00	487.4
10/15/2019 3:00	10/15/2019 4:00	492.9
10/15/2019 4:00	10/15/2019 5:00	513.6
10/15/2019 5:00	10/15/2019 6:00	562.6
10/15/2019 6:00	10/15/2019 7:00	705.4
10/15/2019 7:00	10/15/2019 8:00	836.3
10/15/2019 8:00	10/15/2019 9:00	864.5
10/15/2019 9:00	10/15/2019 10:00	898.6
10/15/2019 10:00	10/15/2019 11:00	921.7
10/15/2019 11:00	10/15/2019 12:00	947.6
10/15/2019 12:00	10/15/2019 13:00	977.9
10/15/2019 13:00	10/15/2019 14:00	985.9
10/15/2019 14:00	10/15/2019 15:00	983.1
10/15/2019 15:00	10/15/2019 16:00	987.0
10/15/2019 16:00	10/15/2019 17:00	1005.6
10/15/2019 17:00	10/15/2019 18:00	1020.7
10/15/2019 18:00	10/15/2019 19:00	1020.7
10/15/2019 19:00	10/15/2019 20:00	1024.6
10/15/2019 20:00	10/15/2019 21:00	997.0
10/15/2019 21:00	10/15/2019 22:00	932.8
10/15/2019 22:00	10/15/2019 23:00	855.8
10/15/2019 23:00	10/16/2019 0:00	799.8
10/16/2019 0:00	10/16/2019 1:00	738.0
10/16/2019 1:00	10/16/2019 2:00	715.8
10/16/2019 2:00	10/16/2019 3:00	706.5
10/16/2019 3:00	10/16/2019 4:00	704.3
10/16/2019 4:00	10/16/2019 5:00	760.0
10/16/2019 5:00	10/16/2019 6:00	848.9
10/16/2019 6:00	10/16/2019 7:00	1003.2
10/16/2019 7:00	10/16/2019 8:00	1143.9
10/16/2019 8:00	10/16/2019 9:00	1185.4
10/16/2019 9:00	10/16/2019 10:00	1170.9
10/16/2019 10:00	10/16/2019 11:00	1141.4
10/16/2019 11:00	10/16/2019 12:00	1115.8
10/16/2019 12:00	10/16/2019 13:00	1085.6
10/16/2019 13:00	10/16/2019 14:00	1063.7
10/16/2019 14:00	10/16/2019 15:00	1039.7
10/16/2019 15:00	10/16/2019 16:00	1038.1
10/16/2019 16:00	10/16/2019 17:00	1064.7
10/16/2019 17:00	10/16/2019 18:00	1083.2
10/16/2019 18:00	10/16/2019 19:00	1093.2

Start Time	End Time	ANL_MW
10/16/2019 19:00	10/16/2019 20:00	1115.7
10/16/2019 20:00	10/16/2019 21:00	1048.2
10/16/2019 21:00	10/16/2019 22:00	934.4
10/16/2019 22:00	10/16/2019 23:00	785.8
10/16/2019 23:00	10/17/2019 0:00	655.3
10/17/2019 0:00	10/17/2019 1:00	500.9
10/17/2019 1:00	10/17/2019 2:00	441.5
10/17/2019 2:00	10/17/2019 3:00	420.8
10/17/2019 3:00	10/17/2019 4:00	394.2
10/17/2019 4:00	10/17/2019 5:00	359.6
10/17/2019 5:00	10/17/2019 6:00	387.8
10/17/2019 6:00	10/17/2019 7:00	515.0
10/17/2019 7:00	10/17/2019 8:00	619.1
10/17/2019 8:00	10/17/2019 9:00	700.2
10/17/2019 9:00	10/17/2019 10:00	736.8
10/17/2019 10:00	10/17/2019 11:00	732.4
10/17/2019 11:00	10/17/2019 12:00	731.6
10/17/2019 12:00	10/17/2019 13:00	697.0
10/17/2019 13:00	10/17/2019 14:00	679.3
10/17/2019 14:00	10/17/2019 15:00	652.4
10/17/2019 15:00	10/17/2019 16:00	665.9
10/17/2019 16:00	10/17/2019 17:00	713.7
10/17/2019 17:00	10/17/2019 18:00	735.6
10/17/2019 18:00	10/17/2019 19:00	755.3
10/17/2019 19:00	10/17/2019 20:00	778.9
10/17/2019 20:00	10/17/2019 21:00	724.4
10/17/2019 21:00	10/17/2019 22:00	670.4
10/17/2019 22:00	10/17/2019 23:00	594.4
10/17/2019 23:00	10/18/2019 0:00	515.2
10/18/2019 0:00	10/18/2019 1:00	460.6
10/18/2019 1:00	10/18/2019 2:00	406.5
10/18/2019 2:00	10/18/2019 3:00	361.2
10/18/2019 3:00	10/18/2019 4:00	381.1
10/18/2019 4:00	10/18/2019 5:00	358.7
10/18/2019 5:00	10/18/2019 6:00	356.7
10/18/2019 6:00	10/18/2019 7:00	476.8
10/18/2019 7:00	10/18/2019 8:00	648.7
10/18/2019 8:00	10/18/2019 9:00	704.3
10/18/2019 9:00	10/18/2019 10:00	761.7
10/18/2019 10:00	10/18/2019 11:00	792.8
10/18/2019 11:00	10/18/2019 12:00	814.0
10/18/2019 12:00	10/18/2019 13:00	805.4
10/18/2019 13:00	10/18/2019 14:00	807.0
10/18/2019 14:00	10/18/2019 15:00	805.2
10/18/2019 15:00	10/18/2019 16:00	819.0
10/18/2019 16:00	10/18/2019 17:00	824.7
10/18/2019 17:00	10/18/2019 18:00	869.5
10/18/2019 18:00	10/18/2019 19:00	903.8
10/18/2019 19:00	10/18/2019 20:00	926.6
10/18/2019 20:00	10/18/2019 21:00	904.3
10/18/2019 21:00	10/18/2019 22:00	874.3
10/18/2019 22:00	10/18/2019 23:00	817.3
10/18/2019 23:00	10/19/2019 0:00	800.6
10/19/2019 0:00	10/19/2019 1:00	770.0
10/19/2019 1:00	10/19/2019 2:00	743.7
10/19/2019 2:00	10/19/2019 3:00	699.4
10/19/2019 3:00	10/19/2019 4:00	666.1
10/19/2019 4:00	10/19/2019 5:00	640.6
10/19/2019 5:00	10/19/2019 6:00	664.7
10/19/2019 6:00	10/19/2019 7:00	711.8
10/19/2019 7:00	10/19/2019 8:00	765.8
10/19/2019 8:00	10/19/2019 9:00	810.8
10/19/2019 9:00	10/19/2019 10:00	906.3
10/19/2019 10:00	10/19/2019 11:00	888.1
10/19/2019 11:00	10/19/2019 12:00	837.8
10/19/2019 12:00	10/19/2019 13:00	829.6
10/19/2019 13:00	10/19/2019 14:00	800.8
10/19/2019 14:00	10/19/2019 15:00	788.4
10/19/2019 15:00	10/19/2019 16:00	770.0
10/19/2019 16:00	10/19/2019 17:00	796.2

Start Time	End Time	ANL_MW
10/19/2019 17:00	10/19/2019 18:00	876.9
10/19/2019 18:00	10/19/2019 19:00	904.4
10/19/2019 19:00	10/19/2019 20:00	902.1
10/19/2019 20:00	10/19/2019 21:00	858.5
10/19/2019 21:00	10/19/2019 22:00	830.6
10/19/2019 22:00	10/19/2019 23:00	782.6
10/19/2019 23:00	10/20/2019 0:00	710.0
10/20/2019 0:00	10/20/2019 1:00	657.0
10/20/2019 1:00	10/20/2019 2:00	635.9
10/20/2019 2:00	10/20/2019 3:00	620.3
10/20/2019 3:00	10/20/2019 4:00	607.4
10/20/2019 4:00	10/20/2019 5:00	582.2
10/20/2019 5:00	10/20/2019 6:00	596.1
10/20/2019 6:00	10/20/2019 7:00	619.0
10/20/2019 7:00	10/20/2019 8:00	681.8
10/20/2019 8:00	10/20/2019 9:00	792.3
10/20/2019 9:00	10/20/2019 10:00	896.3
10/20/2019 10:00	10/20/2019 11:00	887.9
10/20/2019 11:00	10/20/2019 12:00	863.6
10/20/2019 12:00	10/20/2019 13:00	850.3
10/20/2019 13:00	10/20/2019 14:00	848.2
10/20/2019 14:00	10/20/2019 15:00	832.4
10/20/2019 15:00	10/20/2019 16:00	847.4
10/20/2019 16:00	10/20/2019 17:00	918.7
10/20/2019 17:00	10/20/2019 18:00	976.4
10/20/2019 18:00	10/20/2019 19:00	1012.9
10/20/2019 19:00	10/20/2019 20:00	1062.4
10/20/2019 20:00	10/20/2019 21:00	1056.8
10/20/2019 21:00	10/20/2019 22:00	1006.0
10/20/2019 22:00	10/20/2019 23:00	940.7
10/20/2019 23:00	10/21/2019 0:00	877.2
10/21/2019 0:00	10/21/2019 1:00	846.3
10/21/2019 1:00	10/21/2019 2:00	827.3
10/21/2019 2:00	10/21/2019 3:00	821.5
10/21/2019 3:00	10/21/2019 4:00	827.3
10/21/2019 4:00	10/21/2019 5:00	849.6
10/21/2019 5:00	10/21/2019 6:00	915.6
10/21/2019 6:00	10/21/2019 7:00	1058.5
10/21/2019 7:00	10/21/2019 8:00	1181.9
10/21/2019 8:00	10/21/2019 9:00	1201.4
10/21/2019 9:00	10/21/2019 10:00	1184.0
10/21/2019 10:00	10/21/2019 11:00	1149.0
10/21/2019 11:00	10/21/2019 12:00	1126.7
10/21/2019 12:00	10/21/2019 13:00	1099.3
10/21/2019 13:00	10/21/2019 14:00	1078.2
10/21/2019 14:00	10/21/2019 15:00	1056.6
10/21/2019 15:00	10/21/2019 16:00	1054.2
10/21/2019 16:00	10/21/2019 17:00	1078.0
10/21/2019 17:00	10/21/2019 18:00	1096.8
10/21/2019 18:00	10/21/2019 19:00	1117.1
10/21/2019 19:00	10/21/2019 20:00	1134.3
10/21/2019 20:00	10/21/2019 21:00	1103.8
10/21/2019 21:00	10/21/2019 22:00	1054.5
10/21/2019 22:00	10/21/2019 23:00	980.7
10/21/2019 23:00	10/22/2019 0:00	934.1
10/22/2019 0:00	10/22/2019 1:00	891.8
10/22/2019 1:00	10/22/2019 2:00	842.2
10/22/2019 2:00	10/22/2019 3:00	803.7
10/22/2019 3:00	10/22/2019 4:00	787.3
10/22/2019 4:00	10/22/2019 5:00	778.9
10/22/2019 5:00	10/22/2019 6:00	814.8
10/22/2019 6:00	10/22/2019 7:00	908.3
10/22/2019 7:00	10/22/2019 8:00	999.7
10/22/2019 8:00	10/22/2019 9:00	1029.9
10/22/2019 9:00	10/22/2019 10:00	1029.1
10/22/2019 10:00	10/22/2019 11:00	1020.5
10/22/2019 11:00	10/22/2019 12:00	1014.4
10/22/2019 12:00	10/22/2019 13:00	979.3
10/22/2019 13:00	10/22/2019 14:00	963.1
10/22/2019 14:00	10/22/2019 15:00	955.2

Start Time	End Time	ANL_MW
10/22/2019 15:00	10/22/2019 16:00	970.3
10/22/2019 16:00	10/22/2019 17:00	1028.7
10/22/2019 17:00	10/22/2019 18:00	1076.4
10/22/2019 18:00	10/22/2019 19:00	1082.7
10/22/2019 19:00	10/22/2019 20:00	1054.3
10/22/2019 20:00	10/22/2019 21:00	981.1
10/22/2019 21:00	10/22/2019 22:00	944.9
10/22/2019 22:00	10/22/2019 23:00	835.5
10/22/2019 23:00	10/23/2019 0:00	769.1
10/23/2019 0:00	10/23/2019 1:00	700.0
10/23/2019 1:00	10/23/2019 2:00	604.5
10/23/2019 2:00	10/23/2019 3:00	520.0
10/23/2019 3:00	10/23/2019 4:00	508.6
10/23/2019 4:00	10/23/2019 5:00	532.9
10/23/2019 5:00	10/23/2019 6:00	589.9
10/23/2019 6:00	10/23/2019 7:00	689.3
10/23/2019 7:00	10/23/2019 8:00	781.2
10/23/2019 8:00	10/23/2019 9:00	777.0
10/23/2019 9:00	10/23/2019 10:00	729.5
10/23/2019 10:00	10/23/2019 11:00	690.4
10/23/2019 11:00	10/23/2019 12:00	716.0
10/23/2019 12:00	10/23/2019 13:00	692.0
10/23/2019 13:00	10/23/2019 14:00	692.4
10/23/2019 14:00	10/23/2019 15:00	649.9
10/23/2019 15:00	10/23/2019 16:00	665.8
10/23/2019 16:00	10/23/2019 17:00	741.3
10/23/2019 17:00	10/23/2019 18:00	787.0
10/23/2019 18:00	10/23/2019 19:00	791.6
10/23/2019 19:00	10/23/2019 20:00	750.6
10/23/2019 20:00	10/23/2019 21:00	729.9
10/23/2019 21:00	10/23/2019 22:00	695.6
10/23/2019 22:00	10/23/2019 23:00	594.3
10/23/2019 23:00	10/24/2019 0:00	528.5
10/24/2019 0:00	10/24/2019 1:00	477.1
10/24/2019 1:00	10/24/2019 2:00	460.0
10/24/2019 2:00	10/24/2019 3:00	475.3
10/24/2019 3:00	10/24/2019 4:00	491.6
10/24/2019 4:00	10/24/2019 5:00	531.0
10/24/2019 5:00	10/24/2019 6:00	586.6
10/24/2019 6:00	10/24/2019 7:00	735.6
10/24/2019 7:00	10/24/2019 8:00	833.0
10/24/2019 8:00	10/24/2019 9:00	890.0
10/24/2019 9:00	10/24/2019 10:00	947.3
10/24/2019 10:00	10/24/2019 11:00	986.6
10/24/2019 11:00	10/24/2019 12:00	983.5
10/24/2019 12:00	10/24/2019 13:00	994.6
10/24/2019 13:00	10/24/2019 14:00	964.2
10/24/2019 14:00	10/24/2019 15:00	914.1
10/24/2019 15:00	10/24/2019 16:00	932.6
10/24/2019 16:00	10/24/2019 17:00	960.4
10/24/2019 17:00	10/24/2019 18:00	987.0
10/24/2019 18:00	10/24/2019 19:00	977.9
10/24/2019 19:00	10/24/2019 20:00	951.7
10/24/2019 20:00	10/24/2019 21:00	856.3
10/24/2019 21:00	10/24/2019 22:00	824.5
10/24/2019 22:00	10/24/2019 23:00	776.7
10/24/2019 23:00	10/25/2019 0:00	707.2
10/25/2019 0:00	10/25/2019 1:00	664.6
10/25/2019 1:00	10/25/2019 2:00	646.5
10/25/2019 2:00	10/25/2019 3:00	653.2
10/25/2019 3:00	10/25/2019 4:00	653.8
10/25/2019 4:00	10/25/2019 5:00	694.4
10/25/2019 5:00	10/25/2019 6:00	773.3
10/25/2019 6:00	10/25/2019 7:00	946.7
10/25/2019 7:00	10/25/2019 8:00	1080.3
10/25/2019 8:00	10/25/2019 9:00	1134.2
10/25/2019 9:00	10/25/2019 10:00	1140.6
10/25/2019 10:00	10/25/2019 11:00	1067.5
10/25/2019 11:00	10/25/2019 12:00	1009.8
10/25/2019 12:00	10/25/2019 13:00	1000.0

Start Time	End Time	ANL_MW
10/25/2019 13:00	10/25/2019 14:00	995.9
10/25/2019 14:00	10/25/2019 15:00	998.5
10/25/2019 15:00	10/25/2019 16:00	1015.4
10/25/2019 16:00	10/25/2019 17:00	1036.0
10/25/2019 17:00	10/25/2019 18:00	1064.9
10/25/2019 18:00	10/25/2019 19:00	1059.2
10/25/2019 19:00	10/25/2019 20:00	1089.2
10/25/2019 20:00	10/25/2019 21:00	1060.4
10/25/2019 21:00	10/25/2019 22:00	1003.1
10/25/2019 22:00	10/25/2019 23:00	947.4
10/25/2019 23:00	10/26/2019 0:00	937.4
10/26/2019 0:00	10/26/2019 1:00	936.2
10/26/2019 1:00	10/26/2019 2:00	946.6
10/26/2019 2:00	10/26/2019 3:00	952.2
10/26/2019 3:00	10/26/2019 4:00	947.3
10/26/2019 4:00	10/26/2019 5:00	962.3
10/26/2019 5:00	10/26/2019 6:00	979.1
10/26/2019 6:00	10/26/2019 7:00	957.6
10/26/2019 7:00	10/26/2019 8:00	953.1
10/26/2019 8:00	10/26/2019 9:00	1017.8
10/26/2019 9:00	10/26/2019 10:00	1065.3
10/26/2019 10:00	10/26/2019 11:00	1083.8
10/26/2019 11:00	10/26/2019 12:00	1095.8
10/26/2019 12:00	10/26/2019 13:00	970.4
10/26/2019 13:00	10/26/2019 14:00	824.2
10/26/2019 14:00	10/26/2019 15:00	814.6
10/26/2019 15:00	10/26/2019 16:00	806.5
10/26/2019 16:00	10/26/2019 17:00	822.2
10/26/2019 17:00	10/26/2019 18:00	924.6
10/26/2019 18:00	10/26/2019 19:00	1022.5
10/26/2019 19:00	10/26/2019 20:00	1018.2
10/26/2019 20:00	10/26/2019 21:00	969.2
10/26/2019 21:00	10/26/2019 22:00	964.5
10/26/2019 22:00	10/26/2019 23:00	968.4
10/26/2019 23:00	10/27/2019 0:00	955.5
10/27/2019 0:00	10/27/2019 1:00	931.2
10/27/2019 1:00	10/27/2019 2:00	906.6
10/27/2019 2:00	10/27/2019 3:00	915.4
10/27/2019 3:00	10/27/2019 4:00	939.2
10/27/2019 4:00	10/27/2019 5:00	957.5
10/27/2019 5:00	10/27/2019 6:00	962.4
10/27/2019 6:00	10/27/2019 7:00	978.8
10/27/2019 7:00	10/27/2019 8:00	999.8
10/27/2019 8:00	10/27/2019 9:00	1091.1
10/27/2019 9:00	10/27/2019 10:00	1147.5
10/27/2019 10:00	10/27/2019 11:00	1141.5
10/27/2019 11:00	10/27/2019 12:00	1104.2
10/27/2019 12:00	10/27/2019 13:00	1124.9
10/27/2019 13:00	10/27/2019 14:00	1046.0
10/27/2019 14:00	10/27/2019 15:00	1021.0
10/27/2019 15:00	10/27/2019 16:00	1035.3
10/27/2019 16:00	10/27/2019 17:00	1108.2
10/27/2019 17:00	10/27/2019 18:00	1170.5
10/27/2019 18:00	10/27/2019 19:00	1197.2
10/27/2019 19:00	10/27/2019 20:00	1162.7
10/27/2019 20:00	10/27/2019 21:00	1104.4
10/27/2019 21:00	10/27/2019 22:00	1021.9
10/27/2019 22:00	10/27/2019 23:00	972.3
10/27/2019 23:00	10/28/2019 0:00	902.7
10/28/2019 0:00	10/28/2019 1:00	848.6
10/28/2019 1:00	10/28/2019 2:00	825.3
10/28/2019 2:00	10/28/2019 3:00	862.1
10/28/2019 3:00	10/28/2019 4:00	877.1
10/28/2019 4:00	10/28/2019 5:00	903.9
10/28/2019 5:00	10/28/2019 6:00	959.3
10/28/2019 6:00	10/28/2019 7:00	1111.1
10/28/2019 7:00	10/28/2019 8:00	1255.1
10/28/2019 8:00	10/28/2019 9:00	1235.3
10/28/2019 9:00	10/28/2019 10:00	1258.3
10/28/2019 10:00	10/28/2019 11:00	1259.2

Start Time	End Time	ANL_MW
10/28/2019 11:00	10/28/2019 12:00	1181.5
10/28/2019 12:00	10/28/2019 13:00	1155.7
10/28/2019 13:00	10/28/2019 14:00	1129.7
10/28/2019 14:00	10/28/2019 15:00	1101.1
10/28/2019 15:00	10/28/2019 16:00	1101.3
10/28/2019 16:00	10/28/2019 17:00	1132.5
10/28/2019 17:00	10/28/2019 18:00	1159.6
10/28/2019 18:00	10/28/2019 19:00	1207.9
10/28/2019 19:00	10/28/2019 20:00	1177.6
10/28/2019 20:00	10/28/2019 21:00	1134.1
10/28/2019 21:00	10/28/2019 22:00	1144.4
10/28/2019 22:00	10/28/2019 23:00	1089.5
10/28/2019 23:00	10/29/2019 0:00	1064.8
10/29/2019 0:00	10/29/2019 1:00	1057.7
10/29/2019 1:00	10/29/2019 2:00	1044.4
10/29/2019 2:00	10/29/2019 3:00	1020.5
10/29/2019 3:00	10/29/2019 4:00	1017.2
10/29/2019 4:00	10/29/2019 5:00	1027.6
10/29/2019 5:00	10/29/2019 6:00	1084.4
10/29/2019 6:00	10/29/2019 7:00	1236.0
10/29/2019 7:00	10/29/2019 8:00	1335.2
10/29/2019 8:00	10/29/2019 9:00	1310.1
10/29/2019 9:00	10/29/2019 10:00	1258.8
10/29/2019 10:00	10/29/2019 11:00	1204.3
10/29/2019 11:00	10/29/2019 12:00	1175.0
10/29/2019 12:00	10/29/2019 13:00	1134.8
10/29/2019 13:00	10/29/2019 14:00	1100.6
10/29/2019 14:00	10/29/2019 15:00	1068.5
10/29/2019 15:00	10/29/2019 16:00	1068.6
10/29/2019 16:00	10/29/2019 17:00	1098.3
10/29/2019 17:00	10/29/2019 18:00	1140.7
10/29/2019 18:00	10/29/2019 19:00	1183.9
10/29/2019 19:00	10/29/2019 20:00	1184.5
10/29/2019 20:00	10/29/2019 21:00	1145.5
10/29/2019 21:00	10/29/2019 22:00	1101.0
10/29/2019 22:00	10/29/2019 23:00	1047.3
10/29/2019 23:00	10/30/2019 0:00	958.0
10/30/2019 0:00	10/30/2019 1:00	903.6
10/30/2019 1:00	10/30/2019 2:00	866.1
10/30/2019 2:00	10/30/2019 3:00	831.9
10/30/2019 3:00	10/30/2019 4:00	795.9
10/30/2019 4:00	10/30/2019 5:00	781.3
10/30/2019 5:00	10/30/2019 6:00	831.2
10/30/2019 6:00	10/30/2019 7:00	1009.3
10/30/2019 7:00	10/30/2019 8:00	1193.1
10/30/2019 8:00	10/30/2019 9:00	1208.8
10/30/2019 9:00	10/30/2019 10:00	1182.4
10/30/2019 10:00	10/30/2019 11:00	1163.3
10/30/2019 11:00	10/30/2019 12:00	1137.8
10/30/2019 12:00	10/30/2019 13:00	1121.8
10/30/2019 13:00	10/30/2019 14:00	1079.2
10/30/2019 14:00	10/30/2019 15:00	1049.9
10/30/2019 15:00	10/30/2019 16:00	1043.8
10/30/2019 16:00	10/30/2019 17:00	1058.8
10/30/2019 17:00	10/30/2019 18:00	1084.5
10/30/2019 18:00	10/30/2019 19:00	1099.3
10/30/2019 19:00	10/30/2019 20:00	1090.8
10/30/2019 20:00	10/30/2019 21:00	1069.1
10/30/2019 21:00	10/30/2019 22:00	1009.1
10/30/2019 22:00	10/30/2019 23:00	927.2
10/30/2019 23:00	10/31/2019 0:00	874.4
10/31/2019 0:00	10/31/2019 1:00	871.7
10/31/2019 1:00	10/31/2019 2:00	846.7
10/31/2019 2:00	10/31/2019 3:00	818.2
10/31/2019 3:00	10/31/2019 4:00	818.0
10/31/2019 4:00	10/31/2019 5:00	824.2
10/31/2019 5:00	10/31/2019 6:00	846.2
10/31/2019 6:00	10/31/2019 7:00	934.6
10/31/2019 7:00	10/31/2019 8:00	974.7
10/31/2019 8:00	10/31/2019 9:00	971.7

Start Time	End Time	ANL_MW
10/31/2019 9:00	10/31/2019 10:00	889.5
10/31/2019 10:00	10/31/2019 11:00	864.9
10/31/2019 11:00	10/31/2019 12:00	857.5
10/31/2019 12:00	10/31/2019 13:00	819.4
10/31/2019 13:00	10/31/2019 14:00	772.3
10/31/2019 14:00	10/31/2019 15:00	723.9
10/31/2019 15:00	10/31/2019 16:00	710.0
10/31/2019 16:00	10/31/2019 17:00	687.2
10/31/2019 17:00	10/31/2019 18:00	643.7
10/31/2019 18:00	10/31/2019 19:00	644.7
10/31/2019 19:00	10/31/2019 20:00	641.0
10/31/2019 20:00	10/31/2019 21:00	614.2
10/31/2019 21:00	10/31/2019 22:00	570.0
10/31/2019 22:00	10/31/2019 23:00	496.2
10/31/2019 23:00	11/1/2019 0:00	419.9
11/1/2019 0:00	11/1/2019 1:00	398.9
11/1/2019 1:00	11/1/2019 2:00	398.6
11/1/2019 2:00	11/1/2019 3:00	412.5
11/1/2019 3:00	11/1/2019 4:00	432.4
11/1/2019 4:00	11/1/2019 5:00	443.7
11/1/2019 5:00	11/1/2019 6:00	452.5
11/1/2019 6:00	11/1/2019 7:00	514.5
11/1/2019 7:00	11/1/2019 8:00	639.3
11/1/2019 8:00	11/1/2019 9:00	673.8
11/1/2019 9:00	11/1/2019 10:00	701.3
11/1/2019 10:00	11/1/2019 11:00	760.6
11/1/2019 11:00	11/1/2019 12:00	797.2
11/1/2019 12:00	11/1/2019 13:00	827.3
11/1/2019 13:00	11/1/2019 14:00	832.9
11/1/2019 14:00	11/1/2019 15:00	769.5
11/1/2019 15:00	11/1/2019 16:00	721.5
11/1/2019 16:00	11/1/2019 17:00	679.4
11/1/2019 17:00	11/1/2019 18:00	689.9
11/1/2019 18:00	11/1/2019 19:00	684.9
11/1/2019 19:00	11/1/2019 20:00	663.8
11/1/2019 20:00	11/1/2019 21:00	641.0
11/1/2019 21:00	11/1/2019 22:00	602.0
11/1/2019 22:00	11/1/2019 23:00	601.4
11/1/2019 23:00	11/2/2019 0:00	589.8
11/2/2019 0:00	11/2/2019 1:00	591.1
11/2/2019 1:00	11/2/2019 2:00	584.6
11/2/2019 2:00	11/2/2019 3:00	612.1
11/2/2019 3:00	11/2/2019 4:00	626.4
11/2/2019 4:00	11/2/2019 5:00	675.1
11/2/2019 5:00	11/2/2019 6:00	732.5
11/2/2019 6:00	11/2/2019 7:00	776.6
11/2/2019 7:00	11/2/2019 8:00	901.0
11/2/2019 8:00	11/2/2019 9:00	957.0
11/2/2019 9:00	11/2/2019 10:00	992.1
11/2/2019 10:00	11/2/2019 11:00	970.1
11/2/2019 11:00	11/2/2019 12:00	1008.6
11/2/2019 12:00	11/2/2019 13:00	1015.6
11/2/2019 13:00	11/2/2019 14:00	997.8
11/2/2019 14:00	11/2/2019 15:00	978.2
11/2/2019 15:00	11/2/2019 16:00	991.2
11/2/2019 16:00	11/2/2019 17:00	1037.1
11/2/2019 17:00	11/2/2019 18:00	1091.2
11/2/2019 18:00	11/2/2019 19:00	1132.8
11/2/2019 19:00	11/2/2019 20:00	1094.5
11/2/2019 20:00	11/2/2019 21:00	1043.8
11/2/2019 21:00	11/2/2019 22:00	995.4
11/2/2019 22:00	11/2/2019 23:00	1007.4
11/2/2019 23:00	11/3/2019 0:00	990.3
11/3/2019 0:00	11/3/2019 1:00	966.5
11/3/2019 1:00	11/3/2019 2:00	904.4
11/3/2019 1:00	11/3/2019 2:00	894.2
11/3/2019 2:00	11/3/2019 3:00	891.9
11/3/2019 3:00	11/3/2019 4:00	881.9
11/3/2019 4:00	11/3/2019 5:00	870.7
11/3/2019 5:00	11/3/2019 6:00	904.8

Start Time	End Time	ANL_MW
11/3/2019 6:00	11/3/2019 7:00	974.8
11/3/2019 7:00	11/3/2019 8:00	1031.2
11/3/2019 8:00	11/3/2019 9:00	1087.3
11/3/2019 9:00	11/3/2019 10:00	1139.1
11/3/2019 10:00	11/3/2019 11:00	1126.9
11/3/2019 11:00	11/3/2019 12:00	1057.9
11/3/2019 12:00	11/3/2019 13:00	960.8
11/3/2019 13:00	11/3/2019 14:00	910.0
11/3/2019 14:00	11/3/2019 15:00	917.0
11/3/2019 15:00	11/3/2019 16:00	980.2
11/3/2019 16:00	11/3/2019 17:00	1041.2
11/3/2019 17:00	11/3/2019 18:00	1110.5
11/3/2019 18:00	11/3/2019 19:00	1076.9
11/3/2019 19:00	11/3/2019 20:00	1027.0
11/3/2019 20:00	11/3/2019 21:00	980.0
11/3/2019 21:00	11/3/2019 22:00	977.4
11/3/2019 22:00	11/3/2019 23:00	922.6
11/3/2019 23:00	11/4/2019 0:00	915.9
11/4/2019 0:00	11/4/2019 1:00	893.4
11/4/2019 1:00	11/4/2019 2:00	898.5
11/4/2019 2:00	11/4/2019 3:00	898.8
11/4/2019 3:00	11/4/2019 4:00	928.6
11/4/2019 4:00	11/4/2019 5:00	951.6
11/4/2019 5:00	11/4/2019 6:00	982.9
11/4/2019 6:00	11/4/2019 7:00	1131.2
11/4/2019 7:00	11/4/2019 8:00	1179.7
11/4/2019 8:00	11/4/2019 9:00	1171.0
11/4/2019 9:00	11/4/2019 10:00	1190.9
11/4/2019 10:00	11/4/2019 11:00	1163.2
11/4/2019 11:00	11/4/2019 12:00	1129.0
11/4/2019 12:00	11/4/2019 13:00	1095.2
11/4/2019 13:00	11/4/2019 14:00	1068.6
11/4/2019 14:00	11/4/2019 15:00	1044.2
11/4/2019 15:00	11/4/2019 16:00	1041.2
11/4/2019 16:00	11/4/2019 17:00	1114.3
11/4/2019 17:00	11/4/2019 18:00	1229.2
11/4/2019 18:00	11/4/2019 19:00	1228.7
11/4/2019 19:00	11/4/2019 20:00	1215.1
11/4/2019 20:00	11/4/2019 21:00	1199.0
11/4/2019 21:00	11/4/2019 22:00	1166.5
11/4/2019 22:00	11/4/2019 23:00	1120.0
11/4/2019 23:00	11/5/2019 0:00	1133.2
11/5/2019 0:00	11/5/2019 1:00	1108.0
11/5/2019 1:00	11/5/2019 2:00	1051.3
11/5/2019 2:00	11/5/2019 3:00	1016.2
11/5/2019 3:00	11/5/2019 4:00	989.6
11/5/2019 4:00	11/5/2019 5:00	948.3
11/5/2019 5:00	11/5/2019 6:00	920.9
11/5/2019 6:00	11/5/2019 7:00	982.5
11/5/2019 7:00	11/5/2019 8:00	1027.5
11/5/2019 8:00	11/5/2019 9:00	992.2
11/5/2019 9:00	11/5/2019 10:00	987.8
11/5/2019 10:00	11/5/2019 11:00	977.3
11/5/2019 11:00	11/5/2019 12:00	932.8
11/5/2019 12:00	11/5/2019 13:00	843.7
11/5/2019 13:00	11/5/2019 14:00	759.4
11/5/2019 14:00	11/5/2019 15:00	713.1
11/5/2019 15:00	11/5/2019 16:00	768.8
11/5/2019 16:00	11/5/2019 17:00	828.9
11/5/2019 17:00	11/5/2019 18:00	949.9
11/5/2019 18:00	11/5/2019 19:00	926.0
11/5/2019 19:00	11/5/2019 20:00	857.1
11/5/2019 20:00	11/5/2019 21:00	819.7
11/5/2019 21:00	11/5/2019 22:00	780.6
11/5/2019 22:00	11/5/2019 23:00	653.6
11/5/2019 23:00	11/6/2019 0:00	595.9
11/6/2019 0:00	11/6/2019 1:00	543.6
11/6/2019 1:00	11/6/2019 2:00	551.6
11/6/2019 2:00	11/6/2019 3:00	543.4
11/6/2019 3:00	11/6/2019 4:00	562.7

Start Time	End Time	ANL_MW
11/6/2019 4:00	11/6/2019 5:00	591.0
11/6/2019 5:00	11/6/2019 6:00	683.9
11/6/2019 6:00	11/6/2019 7:00	751.1
11/6/2019 7:00	11/6/2019 8:00	890.0
11/6/2019 8:00	11/6/2019 9:00	912.3
11/6/2019 9:00	11/6/2019 10:00	901.6
11/6/2019 10:00	11/6/2019 11:00	892.1
11/6/2019 11:00	11/6/2019 12:00	881.7
11/6/2019 12:00	11/6/2019 13:00	862.7
11/6/2019 13:00	11/6/2019 14:00	846.2
11/6/2019 14:00	11/6/2019 15:00	836.2
11/6/2019 15:00	11/6/2019 16:00	870.0
11/6/2019 16:00	11/6/2019 17:00	951.3
11/6/2019 17:00	11/6/2019 18:00	1066.2
11/6/2019 18:00	11/6/2019 19:00	1063.4
11/6/2019 19:00	11/6/2019 20:00	1035.1
11/6/2019 20:00	11/6/2019 21:00	898.9
11/6/2019 21:00	11/6/2019 22:00	913.2
11/6/2019 22:00	11/6/2019 23:00	883.0
11/6/2019 23:00	11/7/2019 0:00	903.5
11/7/2019 0:00	11/7/2019 1:00	901.8
11/7/2019 1:00	11/7/2019 2:00	901.8
11/7/2019 2:00	11/7/2019 3:00	897.3
11/7/2019 3:00	11/7/2019 4:00	891.4
11/7/2019 4:00	11/7/2019 5:00	929.0
11/7/2019 5:00	11/7/2019 6:00	1003.3
11/7/2019 6:00	11/7/2019 7:00	1121.0
11/7/2019 7:00	11/7/2019 8:00	1175.3
11/7/2019 8:00	11/7/2019 9:00	1112.4
11/7/2019 9:00	11/7/2019 10:00	1097.1
11/7/2019 10:00	11/7/2019 11:00	1011.8
11/7/2019 11:00	11/7/2019 12:00	1005.8
11/7/2019 12:00	11/7/2019 13:00	1063.3
11/7/2019 13:00	11/7/2019 14:00	1061.3
11/7/2019 14:00	11/7/2019 15:00	981.1
11/7/2019 15:00	11/7/2019 16:00	916.8
11/7/2019 16:00	11/7/2019 17:00	971.0
11/7/2019 17:00	11/7/2019 18:00	997.3
11/7/2019 18:00	11/7/2019 19:00	998.9
11/7/2019 19:00	11/7/2019 20:00	966.3
11/7/2019 20:00	11/7/2019 21:00	939.8
11/7/2019 21:00	11/7/2019 22:00	912.0
11/7/2019 22:00	11/7/2019 23:00	904.6
11/7/2019 23:00	11/8/2019 0:00	945.6
11/8/2019 0:00	11/8/2019 1:00	999.8
11/8/2019 1:00	11/8/2019 2:00	1024.2
11/8/2019 2:00	11/8/2019 3:00	984.4
11/8/2019 3:00	11/8/2019 4:00	1000.3
11/8/2019 4:00	11/8/2019 5:00	1002.9
11/8/2019 5:00	11/8/2019 6:00	1006.6
11/8/2019 6:00	11/8/2019 7:00	1128.9
11/8/2019 7:00	11/8/2019 8:00	1163.2
11/8/2019 8:00	11/8/2019 9:00	1168.4
11/8/2019 9:00	11/8/2019 10:00	1203.4
11/8/2019 10:00	11/8/2019 11:00	1166.0
11/8/2019 11:00	11/8/2019 12:00	1145.7
11/8/2019 12:00	11/8/2019 13:00	1148.7
11/8/2019 13:00	11/8/2019 14:00	1117.6
11/8/2019 14:00	11/8/2019 15:00	1069.7
11/8/2019 15:00	11/8/2019 16:00	1017.4
11/8/2019 16:00	11/8/2019 17:00	1032.6
11/8/2019 17:00	11/8/2019 18:00	1119.7
11/8/2019 18:00	11/8/2019 19:00	1172.0
11/8/2019 19:00	11/8/2019 20:00	1133.5
11/8/2019 20:00	11/8/2019 21:00	1002.3
11/8/2019 21:00	11/8/2019 22:00	955.1
11/8/2019 22:00	11/8/2019 23:00	909.4
11/8/2019 23:00	11/9/2019 0:00	934.2
11/9/2019 0:00	11/9/2019 1:00	920.0
11/9/2019 1:00	11/9/2019 2:00	894.1

Start Time	End Time	ANL_MW
11/9/2019 2:00	11/9/2019 3:00	886.9
11/9/2019 3:00	11/9/2019 4:00	858.8
11/9/2019 4:00	11/9/2019 5:00	824.7
11/9/2019 5:00	11/9/2019 6:00	887.3
11/9/2019 6:00	11/9/2019 7:00	975.8
11/9/2019 7:00	11/9/2019 8:00	1001.6
11/9/2019 8:00	11/9/2019 9:00	1079.1
11/9/2019 9:00	11/9/2019 10:00	1117.8
11/9/2019 10:00	11/9/2019 11:00	1148.4
11/9/2019 11:00	11/9/2019 12:00	1155.3
11/9/2019 12:00	11/9/2019 13:00	1120.5
11/9/2019 13:00	11/9/2019 14:00	1093.9
11/9/2019 14:00	11/9/2019 15:00	1093.4
11/9/2019 15:00	11/9/2019 16:00	1148.9
11/9/2019 16:00	11/9/2019 17:00	1247.6
11/9/2019 17:00	11/9/2019 18:00	1338.7
11/9/2019 18:00	11/9/2019 19:00	1283.6
11/9/2019 19:00	11/9/2019 20:00	1200.3
11/9/2019 20:00	11/9/2019 21:00	1136.0
11/9/2019 21:00	11/9/2019 22:00	1091.1
11/9/2019 22:00	11/9/2019 23:00	1033.6
11/9/2019 23:00	11/10/2019 0:00	987.6
11/10/2019 0:00	11/10/2019 1:00	999.0
11/10/2019 1:00	11/10/2019 2:00	970.9
11/10/2019 2:00	11/10/2019 3:00	941.0
11/10/2019 3:00	11/10/2019 4:00	910.5
11/10/2019 4:00	11/10/2019 5:00	910.2
11/10/2019 5:00	11/10/2019 6:00	917.7
11/10/2019 6:00	11/10/2019 7:00	948.3
11/10/2019 7:00	11/10/2019 8:00	930.2
11/10/2019 8:00	11/10/2019 9:00	966.5
11/10/2019 9:00	11/10/2019 10:00	1024.6
11/10/2019 10:00	11/10/2019 11:00	1019.9
11/10/2019 11:00	11/10/2019 12:00	981.0
11/10/2019 12:00	11/10/2019 13:00	969.4
11/10/2019 13:00	11/10/2019 14:00	911.4
11/10/2019 14:00	11/10/2019 15:00	897.6
11/10/2019 15:00	11/10/2019 16:00	904.7
11/10/2019 16:00	11/10/2019 17:00	1001.0
11/10/2019 17:00	11/10/2019 18:00	1003.1
11/10/2019 18:00	11/10/2019 19:00	905.1
11/10/2019 19:00	11/10/2019 20:00	884.6
11/10/2019 20:00	11/10/2019 21:00	831.1
11/10/2019 21:00	11/10/2019 22:00	825.6
11/10/2019 22:00	11/10/2019 23:00	817.2
11/10/2019 23:00	11/11/2019 0:00	791.5
11/11/2019 0:00	11/11/2019 1:00	761.3
11/11/2019 1:00	11/11/2019 2:00	734.5
11/11/2019 2:00	11/11/2019 3:00	781.8
11/11/2019 3:00	11/11/2019 4:00	834.9
11/11/2019 4:00	11/11/2019 5:00	874.9
11/11/2019 5:00	11/11/2019 6:00	900.4
11/11/2019 6:00	11/11/2019 7:00	932.7
11/11/2019 7:00	11/11/2019 8:00	964.0
11/11/2019 8:00	11/11/2019 9:00	1055.1
11/11/2019 9:00	11/11/2019 10:00	1139.1
11/11/2019 10:00	11/11/2019 11:00	1114.0
11/11/2019 11:00	11/11/2019 12:00	1068.5
11/11/2019 12:00	11/11/2019 13:00	1063.1
11/11/2019 13:00	11/11/2019 14:00	1035.0
11/11/2019 14:00	11/11/2019 15:00	1059.0
11/11/2019 15:00	11/11/2019 16:00	1111.8
11/11/2019 16:00	11/11/2019 17:00	1221.3
11/11/2019 17:00	11/11/2019 18:00	1282.1
11/11/2019 18:00	11/11/2019 19:00	1242.4
11/11/2019 19:00	11/11/2019 20:00	1217.8
11/11/2019 20:00	11/11/2019 21:00	1165.8
11/11/2019 21:00	11/11/2019 22:00	1117.6
11/11/2019 22:00	11/11/2019 23:00	1086.2
11/11/2019 23:00	11/12/2019 0:00	1065.0

Start Time	End Time	ANL_MW
11/12/2019 0:00	11/12/2019 1:00	967.3
11/12/2019 1:00	11/12/2019 2:00	830.3
11/12/2019 2:00	11/12/2019 3:00	749.1
11/12/2019 3:00	11/12/2019 4:00	699.7
11/12/2019 4:00	11/12/2019 5:00	649.9
11/12/2019 5:00	11/12/2019 6:00	655.7
11/12/2019 6:00	11/12/2019 7:00	756.9
11/12/2019 7:00	11/12/2019 8:00	860.4
11/12/2019 8:00	11/12/2019 9:00	857.2
11/12/2019 9:00	11/12/2019 10:00	836.4
11/12/2019 10:00	11/12/2019 11:00	814.6
11/12/2019 11:00	11/12/2019 12:00	826.7
11/12/2019 12:00	11/12/2019 13:00	815.6
11/12/2019 13:00	11/12/2019 14:00	777.8
11/12/2019 14:00	11/12/2019 15:00	723.8
11/12/2019 15:00	11/12/2019 16:00	738.7
11/12/2019 16:00	11/12/2019 17:00	803.9
11/12/2019 17:00	11/12/2019 18:00	872.8
11/12/2019 18:00	11/12/2019 19:00	829.8
11/12/2019 19:00	11/12/2019 20:00	802.7
11/12/2019 20:00	11/12/2019 21:00	784.3
11/12/2019 21:00	11/12/2019 22:00	743.7
11/12/2019 22:00	11/12/2019 23:00	724.1
11/12/2019 23:00	11/13/2019 0:00	734.3
11/13/2019 0:00	11/13/2019 1:00	676.3
11/13/2019 1:00	11/13/2019 2:00	718.6
11/13/2019 2:00	11/13/2019 3:00	710.7
11/13/2019 3:00	11/13/2019 4:00	751.2
11/13/2019 4:00	11/13/2019 5:00	766.7
11/13/2019 5:00	11/13/2019 6:00	871.8
11/13/2019 6:00	11/13/2019 7:00	983.4
11/13/2019 7:00	11/13/2019 8:00	1047.9
11/13/2019 8:00	11/13/2019 9:00	1033.2
11/13/2019 9:00	11/13/2019 10:00	1044.3
11/13/2019 10:00	11/13/2019 11:00	1045.1
11/13/2019 11:00	11/13/2019 12:00	1052.9
11/13/2019 12:00	11/13/2019 13:00	1024.2
11/13/2019 13:00	11/13/2019 14:00	990.4
11/13/2019 14:00	11/13/2019 15:00	966.9
11/13/2019 15:00	11/13/2019 16:00	1003.8
11/13/2019 16:00	11/13/2019 17:00	1105.9
11/13/2019 17:00	11/13/2019 18:00	1188.4
11/13/2019 18:00	11/13/2019 19:00	1175.0
11/13/2019 19:00	11/13/2019 20:00	1136.6
11/13/2019 20:00	11/13/2019 21:00	1120.6
11/13/2019 21:00	11/13/2019 22:00	1082.1
11/13/2019 22:00	11/13/2019 23:00	1056.3
11/13/2019 23:00	11/14/2019 0:00	1086.5
11/14/2019 0:00	11/14/2019 1:00	1077.8
11/14/2019 1:00	11/14/2019 2:00	1075.0
11/14/2019 2:00	11/14/2019 3:00	1071.6
11/14/2019 3:00	11/14/2019 4:00	1054.1
11/14/2019 4:00	11/14/2019 5:00	1108.0
11/14/2019 5:00	11/14/2019 6:00	1187.4
11/14/2019 6:00	11/14/2019 7:00	1368.7
11/14/2019 7:00	11/14/2019 8:00	1486.6
11/14/2019 8:00	11/14/2019 9:00	1507.2
11/14/2019 9:00	11/14/2019 10:00	1476.8
11/14/2019 10:00	11/14/2019 11:00	1429.8
11/14/2019 11:00	11/14/2019 12:00	1401.6
11/14/2019 12:00	11/14/2019 13:00	1379.0
11/14/2019 13:00	11/14/2019 14:00	1348.3
11/14/2019 14:00	11/14/2019 15:00	1335.4
11/14/2019 15:00	11/14/2019 16:00	1358.8
11/14/2019 16:00	11/14/2019 17:00	1429.9
11/14/2019 17:00	11/14/2019 18:00	1476.1
11/14/2019 18:00	11/14/2019 19:00	1386.4
11/14/2019 19:00	11/14/2019 20:00	1313.1
11/14/2019 20:00	11/14/2019 21:00	1249.7
11/14/2019 21:00	11/14/2019 22:00	1193.2

Start Time	End Time	ANL_MW
11/14/2019 22:00	11/14/2019 23:00	1083.3
11/14/2019 23:00	11/15/2019 0:00	976.1
11/15/2019 0:00	11/15/2019 1:00	948.6
11/15/2019 1:00	11/15/2019 2:00	895.7
11/15/2019 2:00	11/15/2019 3:00	810.5
11/15/2019 3:00	11/15/2019 4:00	800.3
11/15/2019 4:00	11/15/2019 5:00	844.1
11/15/2019 5:00	11/15/2019 6:00	872.0
11/15/2019 6:00	11/15/2019 7:00	972.7
11/15/2019 7:00	11/15/2019 8:00	1044.6
11/15/2019 8:00	11/15/2019 9:00	1035.5
11/15/2019 9:00	11/15/2019 10:00	1002.8
11/15/2019 10:00	11/15/2019 11:00	955.9
11/15/2019 11:00	11/15/2019 12:00	909.7
11/15/2019 12:00	11/15/2019 13:00	893.6
11/15/2019 13:00	11/15/2019 14:00	867.4
11/15/2019 14:00	11/15/2019 15:00	840.4
11/15/2019 15:00	11/15/2019 16:00	860.3
11/15/2019 16:00	11/15/2019 17:00	932.8
11/15/2019 17:00	11/15/2019 18:00	1057.7
11/15/2019 18:00	11/15/2019 19:00	1079.9
11/15/2019 19:00	11/15/2019 20:00	1063.2
11/15/2019 20:00	11/15/2019 21:00	1049.5
11/15/2019 21:00	11/15/2019 22:00	1024.6
11/15/2019 22:00	11/15/2019 23:00	996.8
11/15/2019 23:00	11/16/2019 0:00	989.3
11/16/2019 0:00	11/16/2019 1:00	955.9
11/16/2019 1:00	11/16/2019 2:00	840.4
11/16/2019 2:00	11/16/2019 3:00	709.0
11/16/2019 3:00	11/16/2019 4:00	708.7
11/16/2019 4:00	11/16/2019 5:00	699.9
11/16/2019 5:00	11/16/2019 6:00	755.7
11/16/2019 6:00	11/16/2019 7:00	854.7
11/16/2019 7:00	11/16/2019 8:00	956.7
11/16/2019 8:00	11/16/2019 9:00	1027.8
11/16/2019 9:00	11/16/2019 10:00	1044.0
11/16/2019 10:00	11/16/2019 11:00	1036.6
11/16/2019 11:00	11/16/2019 12:00	1051.1
11/16/2019 12:00	11/16/2019 13:00	1021.9
11/16/2019 13:00	11/16/2019 14:00	1005.9
11/16/2019 14:00	11/16/2019 15:00	1006.6
11/16/2019 15:00	11/16/2019 16:00	971.4
11/16/2019 16:00	11/16/2019 17:00	1085.2
11/16/2019 17:00	11/16/2019 18:00	1233.1
11/16/2019 18:00	11/16/2019 19:00	1212.9
11/16/2019 19:00	11/16/2019 20:00	1173.3
11/16/2019 20:00	11/16/2019 21:00	1150.6
11/16/2019 21:00	11/16/2019 22:00	1106.1
11/16/2019 22:00	11/16/2019 23:00	1036.8
11/16/2019 23:00	11/17/2019 0:00	1084.0
11/17/2019 0:00	11/17/2019 1:00	1061.8
11/17/2019 1:00	11/17/2019 2:00	1049.8
11/17/2019 2:00	11/17/2019 3:00	1053.5
11/17/2019 3:00	11/17/2019 4:00	1113.1
11/17/2019 4:00	11/17/2019 5:00	1140.6
11/17/2019 5:00	11/17/2019 6:00	1144.6
11/17/2019 6:00	11/17/2019 7:00	1195.7
11/17/2019 7:00	11/17/2019 8:00	1274.6
11/17/2019 8:00	11/17/2019 9:00	1326.0
11/17/2019 9:00	11/17/2019 10:00	1357.1
11/17/2019 10:00	11/17/2019 11:00	1351.4
11/17/2019 11:00	11/17/2019 12:00	1330.5
11/17/2019 12:00	11/17/2019 13:00	1297.5
11/17/2019 13:00	11/17/2019 14:00	1265.7
11/17/2019 14:00	11/17/2019 15:00	1269.9
11/17/2019 15:00	11/17/2019 16:00	1309.8
11/17/2019 16:00	11/17/2019 17:00	1421.9
11/17/2019 17:00	11/17/2019 18:00	1510.4
11/17/2019 18:00	11/17/2019 19:00	1476.1
11/17/2019 19:00	11/17/2019 20:00	1440.7

Start Time	End Time	ANL_MW
11/17/2019 20:00	11/17/2019 21:00	1380.9
11/17/2019 21:00	11/17/2019 22:00	1301.1
11/17/2019 22:00	11/17/2019 23:00	1183.5
11/17/2019 23:00	11/18/2019 0:00	1098.8
11/18/2019 0:00	11/18/2019 1:00	1020.5
11/18/2019 1:00	11/18/2019 2:00	974.9
11/18/2019 2:00	11/18/2019 3:00	970.8
11/18/2019 3:00	11/18/2019 4:00	997.9
11/18/2019 4:00	11/18/2019 5:00	975.3
11/18/2019 5:00	11/18/2019 6:00	1010.5
11/18/2019 6:00	11/18/2019 7:00	1131.9
11/18/2019 7:00	11/18/2019 8:00	1223.8
11/18/2019 8:00	11/18/2019 9:00	1222.8
11/18/2019 9:00	11/18/2019 10:00	1216.6
11/18/2019 10:00	11/18/2019 11:00	1217.0
11/18/2019 11:00	11/18/2019 12:00	1212.7
11/18/2019 12:00	11/18/2019 13:00	1223.4
11/18/2019 13:00	11/18/2019 14:00	1194.7
11/18/2019 14:00	11/18/2019 15:00	1147.4
11/18/2019 15:00	11/18/2019 16:00	1131.0
11/18/2019 16:00	11/18/2019 17:00	1169.2
11/18/2019 17:00	11/18/2019 18:00	1187.2
11/18/2019 18:00	11/18/2019 19:00	1122.1
11/18/2019 19:00	11/18/2019 20:00	1063.5
11/18/2019 20:00	11/18/2019 21:00	1015.2
11/18/2019 21:00	11/18/2019 22:00	923.4
11/18/2019 22:00	11/18/2019 23:00	809.3
11/18/2019 23:00	11/19/2019 0:00	779.6
11/19/2019 0:00	11/19/2019 1:00	758.0
11/19/2019 1:00	11/19/2019 2:00	748.3
11/19/2019 2:00	11/19/2019 3:00	738.1
11/19/2019 3:00	11/19/2019 4:00	772.8
11/19/2019 4:00	11/19/2019 5:00	818.7
11/19/2019 5:00	11/19/2019 6:00	827.6
11/19/2019 6:00	11/19/2019 7:00	1009.4
11/19/2019 7:00	11/19/2019 8:00	1211.4
11/19/2019 8:00	11/19/2019 9:00	1272.7
11/19/2019 9:00	11/19/2019 10:00	1281.3
11/19/2019 10:00	11/19/2019 11:00	1293.5
11/19/2019 11:00	11/19/2019 12:00	1306.2
11/19/2019 12:00	11/19/2019 13:00	1294.5
11/19/2019 13:00	11/19/2019 14:00	1264.6
11/19/2019 14:00	11/19/2019 15:00	1250.4
11/19/2019 15:00	11/19/2019 16:00	1299.5
11/19/2019 16:00	11/19/2019 17:00	1323.5
11/19/2019 17:00	11/19/2019 18:00	1377.2
11/19/2019 18:00	11/19/2019 19:00	1350.4
11/19/2019 19:00	11/19/2019 20:00	1316.0
11/19/2019 20:00	11/19/2019 21:00	1265.8
11/19/2019 21:00	11/19/2019 22:00	1240.1
11/19/2019 22:00	11/19/2019 23:00	1192.4
11/19/2019 23:00	11/20/2019 0:00	1198.9
11/20/2019 0:00	11/20/2019 1:00	1139.8
11/20/2019 1:00	11/20/2019 2:00	1113.1
11/20/2019 2:00	11/20/2019 3:00	1069.8
11/20/2019 3:00	11/20/2019 4:00	1053.3
11/20/2019 4:00	11/20/2019 5:00	1047.4
11/20/2019 5:00	11/20/2019 6:00	1074.0
11/20/2019 6:00	11/20/2019 7:00	1228.3
11/20/2019 7:00	11/20/2019 8:00	1321.9
11/20/2019 8:00	11/20/2019 9:00	1303.4
11/20/2019 9:00	11/20/2019 10:00	1189.3
11/20/2019 10:00	11/20/2019 11:00	1120.8
11/20/2019 11:00	11/20/2019 12:00	1083.0
11/20/2019 12:00	11/20/2019 13:00	1106.2
11/20/2019 13:00	11/20/2019 14:00	1127.4
11/20/2019 14:00	11/20/2019 15:00	1119.9
11/20/2019 15:00	11/20/2019 16:00	1132.5
11/20/2019 16:00	11/20/2019 17:00	1159.7
11/20/2019 17:00	11/20/2019 18:00	1173.7

Start Time	End Time	ANL_MW
11/20/2019 18:00	11/20/2019 19:00	1146.7
11/20/2019 19:00	11/20/2019 20:00	1099.5
11/20/2019 20:00	11/20/2019 21:00	1077.9
11/20/2019 21:00	11/20/2019 22:00	1033.5
11/20/2019 22:00	11/20/2019 23:00	980.0
11/20/2019 23:00	11/21/2019 0:00	991.5
11/21/2019 0:00	11/21/2019 1:00	937.0
11/21/2019 1:00	11/21/2019 2:00	890.7
11/21/2019 2:00	11/21/2019 3:00	809.5
11/21/2019 3:00	11/21/2019 4:00	790.7
11/21/2019 4:00	11/21/2019 5:00	765.1
11/21/2019 5:00	11/21/2019 6:00	819.8
11/21/2019 6:00	11/21/2019 7:00	978.3
11/21/2019 7:00	11/21/2019 8:00	1038.8
11/21/2019 8:00	11/21/2019 9:00	1021.3
11/21/2019 9:00	11/21/2019 10:00	974.7
11/21/2019 10:00	11/21/2019 11:00	952.3
11/21/2019 11:00	11/21/2019 12:00	974.6
11/21/2019 12:00	11/21/2019 13:00	978.5
11/21/2019 13:00	11/21/2019 14:00	973.7
11/21/2019 14:00	11/21/2019 15:00	959.1
11/21/2019 15:00	11/21/2019 16:00	972.5
11/21/2019 16:00	11/21/2019 17:00	1057.2
11/21/2019 17:00	11/21/2019 18:00	1131.0
11/21/2019 18:00	11/21/2019 19:00	1131.1
11/21/2019 19:00	11/21/2019 20:00	1113.0
11/21/2019 20:00	11/21/2019 21:00	1101.2
11/21/2019 21:00	11/21/2019 22:00	1084.2
11/21/2019 22:00	11/21/2019 23:00	1091.1
11/21/2019 23:00	11/22/2019 0:00	1071.5
11/22/2019 0:00	11/22/2019 1:00	1091.9
11/22/2019 1:00	11/22/2019 2:00	1085.6
11/22/2019 2:00	11/22/2019 3:00	1090.2
11/22/2019 3:00	11/22/2019 4:00	1101.1
11/22/2019 4:00	11/22/2019 5:00	1130.4
11/22/2019 5:00	11/22/2019 6:00	1212.6
11/22/2019 6:00	11/22/2019 7:00	1294.7
11/22/2019 7:00	11/22/2019 8:00	1345.2
11/22/2019 8:00	11/22/2019 9:00	1355.3
11/22/2019 9:00	11/22/2019 10:00	1338.5
11/22/2019 10:00	11/22/2019 11:00	1288.1
11/22/2019 11:00	11/22/2019 12:00	1248.1
11/22/2019 12:00	11/22/2019 13:00	1215.2
11/22/2019 13:00	11/22/2019 14:00	1156.1
11/22/2019 14:00	11/22/2019 15:00	1068.5
11/22/2019 15:00	11/22/2019 16:00	1041.4
11/22/2019 16:00	11/22/2019 17:00	1023.1
11/22/2019 17:00	11/22/2019 18:00	1011.1
11/22/2019 18:00	11/22/2019 19:00	947.9
11/22/2019 19:00	11/22/2019 20:00	934.0
11/22/2019 20:00	11/22/2019 21:00	875.1
11/22/2019 21:00	11/22/2019 22:00	810.2
11/22/2019 22:00	11/22/2019 23:00	744.3
11/22/2019 23:00	11/23/2019 0:00	689.3
11/23/2019 0:00	11/23/2019 1:00	679.6
11/23/2019 1:00	11/23/2019 2:00	653.2
11/23/2019 2:00	11/23/2019 3:00	611.0
11/23/2019 3:00	11/23/2019 4:00	587.2
11/23/2019 4:00	11/23/2019 5:00	579.5
11/23/2019 5:00	11/23/2019 6:00	622.8
11/23/2019 6:00	11/23/2019 7:00	693.6
11/23/2019 7:00	11/23/2019 8:00	790.4
11/23/2019 8:00	11/23/2019 9:00	897.7
11/23/2019 9:00	11/23/2019 10:00	961.2
11/23/2019 10:00	11/23/2019 11:00	971.4
11/23/2019 11:00	11/23/2019 12:00	972.2
11/23/2019 12:00	11/23/2019 13:00	952.6
11/23/2019 13:00	11/23/2019 14:00	918.8
11/23/2019 14:00	11/23/2019 15:00	887.4
11/23/2019 15:00	11/23/2019 16:00	902.9

Start Time	End Time	ANL_MW
11/23/2019 16:00	11/23/2019 17:00	1003.1
11/23/2019 17:00	11/23/2019 18:00	1111.2
11/23/2019 18:00	11/23/2019 19:00	1078.3
11/23/2019 19:00	11/23/2019 20:00	1068.4
11/23/2019 20:00	11/23/2019 21:00	1012.0
11/23/2019 21:00	11/23/2019 22:00	1057.9
11/23/2019 22:00	11/23/2019 23:00	1036.9
11/23/2019 23:00	11/24/2019 0:00	1022.4
11/24/2019 0:00	11/24/2019 1:00	991.2
11/24/2019 1:00	11/24/2019 2:00	957.4
11/24/2019 2:00	11/24/2019 3:00	968.8
11/24/2019 3:00	11/24/2019 4:00	998.0
11/24/2019 4:00	11/24/2019 5:00	1070.7
11/24/2019 5:00	11/24/2019 6:00	1136.1
11/24/2019 6:00	11/24/2019 7:00	1151.1
11/24/2019 7:00	11/24/2019 8:00	1202.5
11/24/2019 8:00	11/24/2019 9:00	1300.0
11/24/2019 9:00	11/24/2019 10:00	1365.5
11/24/2019 10:00	11/24/2019 11:00	1346.5
11/24/2019 11:00	11/24/2019 12:00	1339.3
11/24/2019 12:00	11/24/2019 13:00	1321.9
11/24/2019 13:00	11/24/2019 14:00	1290.6
11/24/2019 14:00	11/24/2019 15:00	1252.2
11/24/2019 15:00	11/24/2019 16:00	1233.5
11/24/2019 16:00	11/24/2019 17:00	1275.6
11/24/2019 17:00	11/24/2019 18:00	1239.3
11/24/2019 18:00	11/24/2019 19:00	1101.5
11/24/2019 19:00	11/24/2019 20:00	986.8
11/24/2019 20:00	11/24/2019 21:00	889.5
11/24/2019 21:00	11/24/2019 22:00	843.3
11/24/2019 22:00	11/24/2019 23:00	747.0
11/24/2019 23:00	11/25/2019 0:00	685.9
11/25/2019 0:00	11/25/2019 1:00	684.6
11/25/2019 1:00	11/25/2019 2:00	708.5
11/25/2019 2:00	11/25/2019 3:00	709.5
11/25/2019 3:00	11/25/2019 4:00	724.2
11/25/2019 4:00	11/25/2019 5:00	770.1
11/25/2019 5:00	11/25/2019 6:00	832.9
11/25/2019 6:00	11/25/2019 7:00	976.2
11/25/2019 7:00	11/25/2019 8:00	1081.9
11/25/2019 8:00	11/25/2019 9:00	1031.0
11/25/2019 9:00	11/25/2019 10:00	969.7
11/25/2019 10:00	11/25/2019 11:00	902.2
11/25/2019 11:00	11/25/2019 12:00	914.7
11/25/2019 12:00	11/25/2019 13:00	959.6
11/25/2019 13:00	11/25/2019 14:00	937.3
11/25/2019 14:00	11/25/2019 15:00	910.1
11/25/2019 15:00	11/25/2019 16:00	933.9
11/25/2019 16:00	11/25/2019 17:00	987.8
11/25/2019 17:00	11/25/2019 18:00	1075.2
11/25/2019 18:00	11/25/2019 19:00	1039.4
11/25/2019 19:00	11/25/2019 20:00	1022.7
11/25/2019 20:00	11/25/2019 21:00	1036.9
11/25/2019 21:00	11/25/2019 22:00	990.0
11/25/2019 22:00	11/25/2019 23:00	914.9
11/25/2019 23:00	11/26/2019 0:00	882.6
11/26/2019 0:00	11/26/2019 1:00	897.9
11/26/2019 1:00	11/26/2019 2:00	909.3
11/26/2019 2:00	11/26/2019 3:00	888.3
11/26/2019 3:00	11/26/2019 4:00	884.9
11/26/2019 4:00	11/26/2019 5:00	877.8
11/26/2019 5:00	11/26/2019 6:00	964.5
11/26/2019 6:00	11/26/2019 7:00	1080.6
11/26/2019 7:00	11/26/2019 8:00	1182.8
11/26/2019 8:00	11/26/2019 9:00	1198.0
11/26/2019 9:00	11/26/2019 10:00	1219.0
11/26/2019 10:00	11/26/2019 11:00	1178.9
11/26/2019 11:00	11/26/2019 12:00	1106.1
11/26/2019 12:00	11/26/2019 13:00	1034.9
11/26/2019 13:00	11/26/2019 14:00	970.4

Start Time	End Time	ANL_MW
11/26/2019 14:00	11/26/2019 15:00	979.5
11/26/2019 15:00	11/26/2019 16:00	1046.4
11/26/2019 16:00	11/26/2019 17:00	1140.6
11/26/2019 17:00	11/26/2019 18:00	1209.8
11/26/2019 18:00	11/26/2019 19:00	1168.5
11/26/2019 19:00	11/26/2019 20:00	1082.9
11/26/2019 20:00	11/26/2019 21:00	1016.7
11/26/2019 21:00	11/26/2019 22:00	927.7
11/26/2019 22:00	11/26/2019 23:00	897.2
11/26/2019 23:00	11/27/2019 0:00	905.2
11/27/2019 0:00	11/27/2019 1:00	824.3
11/27/2019 1:00	11/27/2019 2:00	755.6
11/27/2019 2:00	11/27/2019 3:00	727.5
11/27/2019 3:00	11/27/2019 4:00	731.7
11/27/2019 4:00	11/27/2019 5:00	757.9
11/27/2019 5:00	11/27/2019 6:00	773.1
11/27/2019 6:00	11/27/2019 7:00	911.9
11/27/2019 7:00	11/27/2019 8:00	1067.3
11/27/2019 8:00	11/27/2019 9:00	1114.8
11/27/2019 9:00	11/27/2019 10:00	1086.0
11/27/2019 10:00	11/27/2019 11:00	1089.8
11/27/2019 11:00	11/27/2019 12:00	1137.0
11/27/2019 12:00	11/27/2019 13:00	1143.6
11/27/2019 13:00	11/27/2019 14:00	1131.7
11/27/2019 14:00	11/27/2019 15:00	1148.0
11/27/2019 15:00	11/27/2019 16:00	1199.9
11/27/2019 16:00	11/27/2019 17:00	1319.7
11/27/2019 17:00	11/27/2019 18:00	1391.0
11/27/2019 18:00	11/27/2019 19:00	1383.6
11/27/2019 19:00	11/27/2019 20:00	1382.6
11/27/2019 20:00	11/27/2019 21:00	1347.2
11/27/2019 21:00	11/27/2019 22:00	1257.9
11/27/2019 22:00	11/27/2019 23:00	1137.8
11/27/2019 23:00	11/28/2019 0:00	1016.3
11/28/2019 0:00	11/28/2019 1:00	948.6
11/28/2019 1:00	11/28/2019 2:00	893.0
11/28/2019 2:00	11/28/2019 3:00	802.3
11/28/2019 3:00	11/28/2019 4:00	823.0
11/28/2019 4:00	11/28/2019 5:00	828.7
11/28/2019 5:00	11/28/2019 6:00	827.6
11/28/2019 6:00	11/28/2019 7:00	900.5
11/28/2019 7:00	11/28/2019 8:00	989.7
11/28/2019 8:00	11/28/2019 9:00	1043.6
11/28/2019 9:00	11/28/2019 10:00	1050.0
11/28/2019 10:00	11/28/2019 11:00	984.1
11/28/2019 11:00	11/28/2019 12:00	1019.1
11/28/2019 12:00	11/28/2019 13:00	1019.6
11/28/2019 13:00	11/28/2019 14:00	1013.7
11/28/2019 14:00	11/28/2019 15:00	1016.4
11/28/2019 15:00	11/28/2019 16:00	971.2
11/28/2019 16:00	11/28/2019 17:00	978.7
11/28/2019 17:00	11/28/2019 18:00	1038.5
11/28/2019 18:00	11/28/2019 19:00	1047.0
11/28/2019 19:00	11/28/2019 20:00	1045.3
11/28/2019 20:00	11/28/2019 21:00	1019.5
11/28/2019 21:00	11/28/2019 22:00	1000.7
11/28/2019 22:00	11/28/2019 23:00	957.8
11/28/2019 23:00	11/29/2019 0:00	918.3
11/29/2019 0:00	11/29/2019 1:00	865.8
11/29/2019 1:00	11/29/2019 2:00	831.9
11/29/2019 2:00	11/29/2019 3:00	789.0
11/29/2019 3:00	11/29/2019 4:00	775.5
11/29/2019 4:00	11/29/2019 5:00	784.2
11/29/2019 5:00	11/29/2019 6:00	847.0
11/29/2019 6:00	11/29/2019 7:00	986.1
11/29/2019 7:00	11/29/2019 8:00	1062.1
11/29/2019 8:00	11/29/2019 9:00	1046.1
11/29/2019 9:00	11/29/2019 10:00	1034.5
11/29/2019 10:00	11/29/2019 11:00	1021.2
11/29/2019 11:00	11/29/2019 12:00	1047.5

Start Time	End Time	ANL_MW
11/29/2019 12:00	11/29/2019 13:00	1071.1
11/29/2019 13:00	11/29/2019 14:00	1076.3
11/29/2019 14:00	11/29/2019 15:00	1082.0
11/29/2019 15:00	11/29/2019 16:00	1127.0
11/29/2019 16:00	11/29/2019 17:00	1189.5
11/29/2019 17:00	11/29/2019 18:00	1209.2
11/29/2019 18:00	11/29/2019 19:00	1134.9
11/29/2019 19:00	11/29/2019 20:00	1109.7
11/29/2019 20:00	11/29/2019 21:00	1126.7
11/29/2019 21:00	11/29/2019 22:00	1111.2
11/29/2019 22:00	11/29/2019 23:00	1070.3
11/29/2019 23:00	11/30/2019 0:00	1057.4
11/30/2019 0:00	11/30/2019 1:00	1079.8
11/30/2019 1:00	11/30/2019 2:00	1011.3
11/30/2019 2:00	11/30/2019 3:00	972.3
11/30/2019 3:00	11/30/2019 4:00	963.2
11/30/2019 4:00	11/30/2019 5:00	969.7
11/30/2019 5:00	11/30/2019 6:00	943.9
11/30/2019 6:00	11/30/2019 7:00	975.2
11/30/2019 7:00	11/30/2019 8:00	1038.9
11/30/2019 8:00	11/30/2019 9:00	1109.1
11/30/2019 9:00	11/30/2019 10:00	1129.1
11/30/2019 10:00	11/30/2019 11:00	1122.1
11/30/2019 11:00	11/30/2019 12:00	1116.1
11/30/2019 12:00	11/30/2019 13:00	1097.9
11/30/2019 13:00	11/30/2019 14:00	1036.6
11/30/2019 14:00	11/30/2019 15:00	1016.8
11/30/2019 15:00	11/30/2019 16:00	1033.7
11/30/2019 16:00	11/30/2019 17:00	1103.3
11/30/2019 17:00	11/30/2019 18:00	1155.1
11/30/2019 18:00	11/30/2019 19:00	1099.8
11/30/2019 19:00	11/30/2019 20:00	1062.6
11/30/2019 20:00	11/30/2019 21:00	1016.6
11/30/2019 21:00	11/30/2019 22:00	998.7
11/30/2019 22:00	11/30/2019 23:00	998.1
11/30/2019 23:00	12/1/2019 0:00	983.9
12/1/2019 0:00	12/1/2019 1:00	961.6
12/1/2019 1:00	12/1/2019 2:00	944.9
12/1/2019 2:00	12/1/2019 3:00	934.8
12/1/2019 3:00	12/1/2019 4:00	944.2
12/1/2019 4:00	12/1/2019 5:00	966.4
12/1/2019 5:00	12/1/2019 6:00	1029.5
12/1/2019 6:00	12/1/2019 7:00	1132.1
12/1/2019 7:00	12/1/2019 8:00	1211.2
12/1/2019 8:00	12/1/2019 9:00	1311.1
12/1/2019 9:00	12/1/2019 10:00	1377.1
12/1/2019 10:00	12/1/2019 11:00	1370.9
12/1/2019 11:00	12/1/2019 12:00	1324.9
12/1/2019 12:00	12/1/2019 13:00	1310.3
12/1/2019 13:00	12/1/2019 14:00	1259.0
12/1/2019 14:00	12/1/2019 15:00	1277.9
12/1/2019 15:00	12/1/2019 16:00	1349.8
12/1/2019 16:00	12/1/2019 17:00	1477.4
12/1/2019 17:00	12/1/2019 18:00	1558.6
12/1/2019 18:00	12/1/2019 19:00	1573.7
12/1/2019 19:00	12/1/2019 20:00	1555.7
12/1/2019 20:00	12/1/2019 21:00	1532.4
12/1/2019 21:00	12/1/2019 22:00	1476.4
12/1/2019 22:00	12/1/2019 23:00	1395.8
12/1/2019 23:00	12/2/2019 0:00	1383.1
12/2/2019 0:00	12/2/2019 1:00	1378.3
12/2/2019 1:00	12/2/2019 2:00	1393.5
12/2/2019 2:00	12/2/2019 3:00	1390.6
12/2/2019 3:00	12/2/2019 4:00	1363.1
12/2/2019 4:00	12/2/2019 5:00	1366.0
12/2/2019 5:00	12/2/2019 6:00	1366.7
12/2/2019 6:00	12/2/2019 7:00	1470.0
12/2/2019 7:00	12/2/2019 8:00	1540.8
12/2/2019 8:00	12/2/2019 9:00	1520.6
12/2/2019 9:00	12/2/2019 10:00	1492.5

Start Time	End Time	ANL_MW
12/2/2019 10:00	12/2/2019 11:00	1492.5
12/2/2019 11:00	12/2/2019 12:00	1487.7
12/2/2019 12:00	12/2/2019 13:00	1458.0
12/2/2019 13:00	12/2/2019 14:00	1395.3
12/2/2019 14:00	12/2/2019 15:00	1311.6
12/2/2019 15:00	12/2/2019 16:00	1297.1
12/2/2019 16:00	12/2/2019 17:00	1331.6
12/2/2019 17:00	12/2/2019 18:00	1366.1
12/2/2019 18:00	12/2/2019 19:00	1287.5
12/2/2019 19:00	12/2/2019 20:00	1273.4
12/2/2019 20:00	12/2/2019 21:00	1252.5
12/2/2019 21:00	12/2/2019 22:00	1212.0
12/2/2019 22:00	12/2/2019 23:00	1125.0
12/2/2019 23:00	12/3/2019 0:00	1126.3
12/3/2019 0:00	12/3/2019 1:00	1156.9
12/3/2019 1:00	12/3/2019 2:00	1180.8
12/3/2019 2:00	12/3/2019 3:00	1182.3
12/3/2019 3:00	12/3/2019 4:00	1149.4
12/3/2019 4:00	12/3/2019 5:00	1138.4
12/3/2019 5:00	12/3/2019 6:00	1176.1
12/3/2019 6:00	12/3/2019 7:00	1242.9
12/3/2019 7:00	12/3/2019 8:00	1282.0
12/3/2019 8:00	12/3/2019 9:00	1260.6
12/3/2019 9:00	12/3/2019 10:00	1303.1
12/3/2019 10:00	12/3/2019 11:00	1296.2
12/3/2019 11:00	12/3/2019 12:00	1308.8
12/3/2019 12:00	12/3/2019 13:00	1351.4
12/3/2019 13:00	12/3/2019 14:00	1335.5
12/3/2019 14:00	12/3/2019 15:00	1346.5
12/3/2019 15:00	12/3/2019 16:00	1361.2
12/3/2019 16:00	12/3/2019 17:00	1462.1
12/3/2019 17:00	12/3/2019 18:00	1474.2
12/3/2019 18:00	12/3/2019 19:00	1413.0
12/3/2019 19:00	12/3/2019 20:00	1372.4
12/3/2019 20:00	12/3/2019 21:00	1302.3
12/3/2019 21:00	12/3/2019 22:00	1234.4
12/3/2019 22:00	12/3/2019 23:00	1146.3
12/3/2019 23:00	12/4/2019 0:00	1060.9
12/4/2019 0:00	12/4/2019 1:00	1058.0
12/4/2019 1:00	12/4/2019 2:00	1057.1
12/4/2019 2:00	12/4/2019 3:00	953.5
12/4/2019 3:00	12/4/2019 4:00	872.1
12/4/2019 4:00	12/4/2019 5:00	884.6
12/4/2019 5:00	12/4/2019 6:00	982.6
12/4/2019 6:00	12/4/2019 7:00	1116.2
12/4/2019 7:00	12/4/2019 8:00	1117.6
12/4/2019 8:00	12/4/2019 9:00	1139.7
12/4/2019 9:00	12/4/2019 10:00	1151.3
12/4/2019 10:00	12/4/2019 11:00	1157.6
12/4/2019 11:00	12/4/2019 12:00	1157.5
12/4/2019 12:00	12/4/2019 13:00	1154.3
12/4/2019 13:00	12/4/2019 14:00	1152.5
12/4/2019 14:00	12/4/2019 15:00	1156.4
12/4/2019 15:00	12/4/2019 16:00	1200.8
12/4/2019 16:00	12/4/2019 17:00	1303.5
12/4/2019 17:00	12/4/2019 18:00	1405.8
12/4/2019 18:00	12/4/2019 19:00	1410.9
12/4/2019 19:00	12/4/2019 20:00	1417.2
12/4/2019 20:00	12/4/2019 21:00	1405.4
12/4/2019 21:00	12/4/2019 22:00	1354.2
12/4/2019 22:00	12/4/2019 23:00	1288.7
12/4/2019 23:00	12/5/2019 0:00	1256.4
12/5/2019 0:00	12/5/2019 1:00	1259.9
12/5/2019 1:00	12/5/2019 2:00	1250.9
12/5/2019 2:00	12/5/2019 3:00	1254.4
12/5/2019 3:00	12/5/2019 4:00	1261.6
12/5/2019 4:00	12/5/2019 5:00	1268.2
12/5/2019 5:00	12/5/2019 6:00	1326.3
12/5/2019 6:00	12/5/2019 7:00	1426.2
12/5/2019 7:00	12/5/2019 8:00	1519.5

Start Time	End Time	ANL_MW
12/5/2019 8:00	12/5/2019 9:00	1490.4
12/5/2019 9:00	12/5/2019 10:00	1456.5
12/5/2019 10:00	12/5/2019 11:00	1434.4
12/5/2019 11:00	12/5/2019 12:00	1405.3
12/5/2019 12:00	12/5/2019 13:00	1378.0
12/5/2019 13:00	12/5/2019 14:00	1351.1
12/5/2019 14:00	12/5/2019 15:00	1334.8
12/5/2019 15:00	12/5/2019 16:00	1348.1
12/5/2019 16:00	12/5/2019 17:00	1403.9
12/5/2019 17:00	12/5/2019 18:00	1468.2
12/5/2019 18:00	12/5/2019 19:00	1410.2
12/5/2019 19:00	12/5/2019 20:00	1357.9
12/5/2019 20:00	12/5/2019 21:00	1340.9
12/5/2019 21:00	12/5/2019 22:00	1334.4
12/5/2019 22:00	12/5/2019 23:00	1238.3
12/5/2019 23:00	12/6/2019 0:00	1219.5
12/6/2019 0:00	12/6/2019 1:00	1134.8
12/6/2019 1:00	12/6/2019 2:00	1049.4
12/6/2019 2:00	12/6/2019 3:00	1059.1
12/6/2019 3:00	12/6/2019 4:00	1021.8
12/6/2019 4:00	12/6/2019 5:00	1037.0
12/6/2019 5:00	12/6/2019 6:00	1092.8
12/6/2019 6:00	12/6/2019 7:00	1212.1
12/6/2019 7:00	12/6/2019 8:00	1295.3
12/6/2019 8:00	12/6/2019 9:00	1391.0
12/6/2019 9:00	12/6/2019 10:00	1380.6
12/6/2019 10:00	12/6/2019 11:00	1316.2
12/6/2019 11:00	12/6/2019 12:00	1285.0
12/6/2019 12:00	12/6/2019 13:00	1261.9
12/6/2019 13:00	12/6/2019 14:00	1223.1
12/6/2019 14:00	12/6/2019 15:00	1227.0
12/6/2019 15:00	12/6/2019 16:00	1264.7
12/6/2019 16:00	12/6/2019 17:00	1265.5
12/6/2019 17:00	12/6/2019 18:00	1348.3
12/6/2019 18:00	12/6/2019 19:00	1318.7
12/6/2019 19:00	12/6/2019 20:00	1316.4
12/6/2019 20:00	12/6/2019 21:00	1298.3
12/6/2019 21:00	12/6/2019 22:00	1282.2
12/6/2019 22:00	12/6/2019 23:00	1261.0
12/6/2019 23:00	12/7/2019 0:00	1262.6
12/7/2019 0:00	12/7/2019 1:00	1276.0
12/7/2019 1:00	12/7/2019 2:00	1233.5
12/7/2019 2:00	12/7/2019 3:00	1185.4
12/7/2019 3:00	12/7/2019 4:00	1187.5
12/7/2019 4:00	12/7/2019 5:00	1207.9
12/7/2019 5:00	12/7/2019 6:00	1223.8
12/7/2019 6:00	12/7/2019 7:00	1274.5
12/7/2019 7:00	12/7/2019 8:00	1329.1
12/7/2019 8:00	12/7/2019 9:00	1325.9
12/7/2019 9:00	12/7/2019 10:00	1365.9
12/7/2019 10:00	12/7/2019 11:00	1297.5
12/7/2019 11:00	12/7/2019 12:00	1236.3
12/7/2019 12:00	12/7/2019 13:00	1153.2
12/7/2019 13:00	12/7/2019 14:00	1139.0
12/7/2019 14:00	12/7/2019 15:00	1136.4
12/7/2019 15:00	12/7/2019 16:00	1205.3
12/7/2019 16:00	12/7/2019 17:00	1370.1
12/7/2019 17:00	12/7/2019 18:00	1441.3
12/7/2019 18:00	12/7/2019 19:00	1407.3
12/7/2019 19:00	12/7/2019 20:00	1339.5
12/7/2019 20:00	12/7/2019 21:00	1330.2
12/7/2019 21:00	12/7/2019 22:00	1318.1
12/7/2019 22:00	12/7/2019 23:00	1316.8
12/7/2019 23:00	12/8/2019 0:00	1271.4
12/8/2019 0:00	12/8/2019 1:00	1283.6
12/8/2019 1:00	12/8/2019 2:00	1211.8
12/8/2019 2:00	12/8/2019 3:00	1198.2
12/8/2019 3:00	12/8/2019 4:00	1203.5
12/8/2019 4:00	12/8/2019 5:00	1200.9
12/8/2019 5:00	12/8/2019 6:00	1239.9

Start Time	End Time	ANL_MW
12/8/2019 6:00	12/8/2019 7:00	1311.1
12/8/2019 7:00	12/8/2019 8:00	1323.3
12/8/2019 8:00	12/8/2019 9:00	1430.6
12/8/2019 9:00	12/8/2019 10:00	1440.6
12/8/2019 10:00	12/8/2019 11:00	1368.3
12/8/2019 11:00	12/8/2019 12:00	1324.6
12/8/2019 12:00	12/8/2019 13:00	1311.7
12/8/2019 13:00	12/8/2019 14:00	1313.3
12/8/2019 14:00	12/8/2019 15:00	1312.1
12/8/2019 15:00	12/8/2019 16:00	1372.1
12/8/2019 16:00	12/8/2019 17:00	1529.0
12/8/2019 17:00	12/8/2019 18:00	1555.8
12/8/2019 18:00	12/8/2019 19:00	1460.4
12/8/2019 19:00	12/8/2019 20:00	1390.9
12/8/2019 20:00	12/8/2019 21:00	1330.0
12/8/2019 21:00	12/8/2019 22:00	1249.0
12/8/2019 22:00	12/8/2019 23:00	1107.0
12/8/2019 23:00	12/9/2019 0:00	1014.7
12/9/2019 0:00	12/9/2019 1:00	937.3
12/9/2019 1:00	12/9/2019 2:00	878.8
12/9/2019 2:00	12/9/2019 3:00	838.4
12/9/2019 3:00	12/9/2019 4:00	818.0
12/9/2019 4:00	12/9/2019 5:00	806.7
12/9/2019 5:00	12/9/2019 6:00	866.2
12/9/2019 6:00	12/9/2019 7:00	991.2
12/9/2019 7:00	12/9/2019 8:00	1088.1
12/9/2019 8:00	12/9/2019 9:00	1108.7
12/9/2019 9:00	12/9/2019 10:00	1140.5
12/9/2019 10:00	12/9/2019 11:00	1143.2
12/9/2019 11:00	12/9/2019 12:00	1139.2
12/9/2019 12:00	12/9/2019 13:00	1139.9
12/9/2019 13:00	12/9/2019 14:00	1118.1
12/9/2019 14:00	12/9/2019 15:00	1084.9
12/9/2019 15:00	12/9/2019 16:00	1100.9
12/9/2019 16:00	12/9/2019 17:00	1131.7
12/9/2019 17:00	12/9/2019 18:00	1152.8
12/9/2019 18:00	12/9/2019 19:00	1093.7
12/9/2019 19:00	12/9/2019 20:00	1031.5
12/9/2019 20:00	12/9/2019 21:00	974.1
12/9/2019 21:00	12/9/2019 22:00	901.7
12/9/2019 22:00	12/9/2019 23:00	824.6
12/9/2019 23:00	12/10/2019 0:00	770.8
12/10/2019 0:00	12/10/2019 1:00	690.8
12/10/2019 1:00	12/10/2019 2:00	683.2
12/10/2019 2:00	12/10/2019 3:00	707.1
12/10/2019 3:00	12/10/2019 4:00	724.6
12/10/2019 4:00	12/10/2019 5:00	758.0
12/10/2019 5:00	12/10/2019 6:00	769.0
12/10/2019 6:00	12/10/2019 7:00	845.8
12/10/2019 7:00	12/10/2019 8:00	861.3
12/10/2019 8:00	12/10/2019 9:00	840.9
12/10/2019 9:00	12/10/2019 10:00	820.6
12/10/2019 10:00	12/10/2019 11:00	760.2
12/10/2019 11:00	12/10/2019 12:00	776.5
12/10/2019 12:00	12/10/2019 13:00	809.4
12/10/2019 13:00	12/10/2019 14:00	808.7
12/10/2019 14:00	12/10/2019 15:00	854.7
12/10/2019 15:00	12/10/2019 16:00	886.4
12/10/2019 16:00	12/10/2019 17:00	970.9
12/10/2019 17:00	12/10/2019 18:00	1032.9
12/10/2019 18:00	12/10/2019 19:00	982.5
12/10/2019 19:00	12/10/2019 20:00	932.6
12/10/2019 20:00	12/10/2019 21:00	886.3
12/10/2019 21:00	12/10/2019 22:00	852.9
12/10/2019 22:00	12/10/2019 23:00	766.9
12/10/2019 23:00	12/11/2019 0:00	683.9
12/11/2019 0:00	12/11/2019 1:00	651.2
12/11/2019 1:00	12/11/2019 2:00	621.6
12/11/2019 2:00	12/11/2019 3:00	640.8
12/11/2019 3:00	12/11/2019 4:00	688.5

Start Time	End Time	ANL_MW
12/11/2019 4:00	12/11/2019 5:00	769.3
12/11/2019 5:00	12/11/2019 6:00	822.4
12/11/2019 6:00	12/11/2019 7:00	987.0
12/11/2019 7:00	12/11/2019 8:00	1080.0
12/11/2019 8:00	12/11/2019 9:00	1220.1
12/11/2019 9:00	12/11/2019 10:00	1306.7
12/11/2019 10:00	12/11/2019 11:00	1350.1
12/11/2019 11:00	12/11/2019 12:00	1444.1
12/11/2019 12:00	12/11/2019 13:00	1476.5
12/11/2019 13:00	12/11/2019 14:00	1503.8
12/11/2019 14:00	12/11/2019 15:00	1536.9
12/11/2019 15:00	12/11/2019 16:00	1576.0
12/11/2019 16:00	12/11/2019 17:00	1639.0
12/11/2019 17:00	12/11/2019 18:00	1679.7
12/11/2019 18:00	12/11/2019 19:00	1644.1
12/11/2019 19:00	12/11/2019 20:00	1611.6
12/11/2019 20:00	12/11/2019 21:00	1580.4
12/11/2019 21:00	12/11/2019 22:00	1522.3
12/11/2019 22:00	12/11/2019 23:00	1440.1
12/11/2019 23:00	12/12/2019 0:00	1429.7
12/12/2019 0:00	12/12/2019 1:00	1383.3
12/12/2019 1:00	12/12/2019 2:00	1351.9
12/12/2019 2:00	12/12/2019 3:00	1310.7
12/12/2019 3:00	12/12/2019 4:00	1227.8
12/12/2019 4:00	12/12/2019 5:00	1159.1
12/12/2019 5:00	12/12/2019 6:00	1169.5
12/12/2019 6:00	12/12/2019 7:00	1266.3
12/12/2019 7:00	12/12/2019 8:00	1348.6
12/12/2019 8:00	12/12/2019 9:00	1309.7
12/12/2019 9:00	12/12/2019 10:00	1221.6
12/12/2019 10:00	12/12/2019 11:00	1118.8
12/12/2019 11:00	12/12/2019 12:00	1092.6
12/12/2019 12:00	12/12/2019 13:00	1098.4
12/12/2019 13:00	12/12/2019 14:00	1095.3
12/12/2019 14:00	12/12/2019 15:00	1124.0
12/12/2019 15:00	12/12/2019 16:00	1222.1
12/12/2019 16:00	12/12/2019 17:00	1425.5
12/12/2019 17:00	12/12/2019 18:00	1552.8
12/12/2019 18:00	12/12/2019 19:00	1524.8
12/12/2019 19:00	12/12/2019 20:00	1525.3
12/12/2019 20:00	12/12/2019 21:00	1525.9
12/12/2019 21:00	12/12/2019 22:00	1472.4
12/12/2019 22:00	12/12/2019 23:00	1408.2
12/12/2019 23:00	12/13/2019 0:00	1420.2
12/13/2019 0:00	12/13/2019 1:00	1426.4
12/13/2019 1:00	12/13/2019 2:00	1400.6
12/13/2019 2:00	12/13/2019 3:00	1392.4
12/13/2019 3:00	12/13/2019 4:00	1409.8
12/13/2019 4:00	12/13/2019 5:00	1418.0
12/13/2019 5:00	12/13/2019 6:00	1463.1
12/13/2019 6:00	12/13/2019 7:00	1602.1
12/13/2019 7:00	12/13/2019 8:00	1724.8
12/13/2019 8:00	12/13/2019 9:00	1733.7
12/13/2019 9:00	12/13/2019 10:00	1679.4
12/13/2019 10:00	12/13/2019 11:00	1586.2
12/13/2019 11:00	12/13/2019 12:00	1519.8
12/13/2019 12:00	12/13/2019 13:00	1434.6
12/13/2019 13:00	12/13/2019 14:00	1349.4
12/13/2019 14:00	12/13/2019 15:00	1329.8
12/13/2019 15:00	12/13/2019 16:00	1362.4
12/13/2019 16:00	12/13/2019 17:00	1415.3
12/13/2019 17:00	12/13/2019 18:00	1515.6
12/13/2019 18:00	12/13/2019 19:00	1467.1
12/13/2019 19:00	12/13/2019 20:00	1417.3
12/13/2019 20:00	12/13/2019 21:00	1385.8
12/13/2019 21:00	12/13/2019 22:00	1300.8
12/13/2019 22:00	12/13/2019 23:00	1250.9
12/13/2019 23:00	12/14/2019 0:00	1230.5
12/14/2019 0:00	12/14/2019 1:00	1110.1
12/14/2019 1:00	12/14/2019 2:00	1039.4

Start Time	End Time	ANL_MW
12/14/2019 2:00	12/14/2019 3:00	998.7
12/14/2019 3:00	12/14/2019 4:00	963.1
12/14/2019 4:00	12/14/2019 5:00	935.9
12/14/2019 5:00	12/14/2019 6:00	923.6
12/14/2019 6:00	12/14/2019 7:00	978.5
12/14/2019 7:00	12/14/2019 8:00	1085.9
12/14/2019 8:00	12/14/2019 9:00	1149.1
12/14/2019 9:00	12/14/2019 10:00	1197.8
12/14/2019 10:00	12/14/2019 11:00	1201.2
12/14/2019 11:00	12/14/2019 12:00	1199.3
12/14/2019 12:00	12/14/2019 13:00	1165.8
12/14/2019 13:00	12/14/2019 14:00	1102.2
12/14/2019 14:00	12/14/2019 15:00	1072.5
12/14/2019 15:00	12/14/2019 16:00	1088.8
12/14/2019 16:00	12/14/2019 17:00	1134.1
12/14/2019 17:00	12/14/2019 18:00	1142.7
12/14/2019 18:00	12/14/2019 19:00	1072.7
12/14/2019 19:00	12/14/2019 20:00	1049.5
12/14/2019 20:00	12/14/2019 21:00	984.1
12/14/2019 21:00	12/14/2019 22:00	925.2
12/14/2019 22:00	12/14/2019 23:00	779.4
12/14/2019 23:00	12/15/2019 0:00	646.7
12/15/2019 0:00	12/15/2019 1:00	571.2
12/15/2019 1:00	12/15/2019 2:00	544.1
12/15/2019 2:00	12/15/2019 3:00	548.2
12/15/2019 3:00	12/15/2019 4:00	528.8
12/15/2019 4:00	12/15/2019 5:00	528.2
12/15/2019 5:00	12/15/2019 6:00	510.1
12/15/2019 6:00	12/15/2019 7:00	561.1
12/15/2019 7:00	12/15/2019 8:00	595.4
12/15/2019 8:00	12/15/2019 9:00	688.6
12/15/2019 9:00	12/15/2019 10:00	784.8
12/15/2019 10:00	12/15/2019 11:00	836.3
12/15/2019 11:00	12/15/2019 12:00	907.6
12/15/2019 12:00	12/15/2019 13:00	874.7
12/15/2019 13:00	12/15/2019 14:00	814.9
12/15/2019 14:00	12/15/2019 15:00	793.8
12/15/2019 15:00	12/15/2019 16:00	836.5
12/15/2019 16:00	12/15/2019 17:00	944.5
12/15/2019 17:00	12/15/2019 18:00	1024.7
12/15/2019 18:00	12/15/2019 19:00	1006.6
12/15/2019 19:00	12/15/2019 20:00	991.2
12/15/2019 20:00	12/15/2019 21:00	977.2
12/15/2019 21:00	12/15/2019 22:00	938.1
12/15/2019 22:00	12/15/2019 23:00	807.4
12/15/2019 23:00	12/16/2019 0:00	733.7
12/16/2019 0:00	12/16/2019 1:00	747.8
12/16/2019 1:00	12/16/2019 2:00	728.8
12/16/2019 2:00	12/16/2019 3:00	759.4
12/16/2019 3:00	12/16/2019 4:00	785.0
12/16/2019 4:00	12/16/2019 5:00	831.7
12/16/2019 5:00	12/16/2019 6:00	912.1
12/16/2019 6:00	12/16/2019 7:00	1095.0
12/16/2019 7:00	12/16/2019 8:00	1224.2
12/16/2019 8:00	12/16/2019 9:00	1258.6
12/16/2019 9:00	12/16/2019 10:00	1190.9
12/16/2019 10:00	12/16/2019 11:00	1156.1
12/16/2019 11:00	12/16/2019 12:00	1130.0
12/16/2019 12:00	12/16/2019 13:00	1101.1
12/16/2019 13:00	12/16/2019 14:00	1023.3
12/16/2019 14:00	12/16/2019 15:00	1003.3
12/16/2019 15:00	12/16/2019 16:00	1056.3
12/16/2019 16:00	12/16/2019 17:00	1158.4
12/16/2019 17:00	12/16/2019 18:00	1248.3
12/16/2019 18:00	12/16/2019 19:00	1235.3
12/16/2019 19:00	12/16/2019 20:00	1222.6
12/16/2019 20:00	12/16/2019 21:00	1183.6
12/16/2019 21:00	12/16/2019 22:00	1119.3
12/16/2019 22:00	12/16/2019 23:00	1014.3
12/16/2019 23:00	12/17/2019 0:00	964.3

Start Time	End Time	ANL_MW
12/17/2019 0:00	12/17/2019 1:00	933.4
12/17/2019 1:00	12/17/2019 2:00	901.7
12/17/2019 2:00	12/17/2019 3:00	891.3
12/17/2019 3:00	12/17/2019 4:00	922.4
12/17/2019 4:00	12/17/2019 5:00	994.7
12/17/2019 5:00	12/17/2019 6:00	1068.3
12/17/2019 6:00	12/17/2019 7:00	1235.3
12/17/2019 7:00	12/17/2019 8:00	1351.7
12/17/2019 8:00	12/17/2019 9:00	1397.2
12/17/2019 9:00	12/17/2019 10:00	1434.5
12/17/2019 10:00	12/17/2019 11:00	1468.8
12/17/2019 11:00	12/17/2019 12:00	1446.8
12/17/2019 12:00	12/17/2019 13:00	1449.2
12/17/2019 13:00	12/17/2019 14:00	1440.7
12/17/2019 14:00	12/17/2019 15:00	1463.7
12/17/2019 15:00	12/17/2019 16:00	1488.6
12/17/2019 16:00	12/17/2019 17:00	1604.0
12/17/2019 17:00	12/17/2019 18:00	1672.2
12/17/2019 18:00	12/17/2019 19:00	1642.7
12/17/2019 19:00	12/17/2019 20:00	1615.9
12/17/2019 20:00	12/17/2019 21:00	1577.7
12/17/2019 21:00	12/17/2019 22:00	1478.1
12/17/2019 22:00	12/17/2019 23:00	1372.9
12/17/2019 23:00	12/18/2019 0:00	1296.5
12/18/2019 0:00	12/18/2019 1:00	1233.4
12/18/2019 1:00	12/18/2019 2:00	1189.0
12/18/2019 2:00	12/18/2019 3:00	1160.1
12/18/2019 3:00	12/18/2019 4:00	1167.5
12/18/2019 4:00	12/18/2019 5:00	1187.0
12/18/2019 5:00	12/18/2019 6:00	1233.9
12/18/2019 6:00	12/18/2019 7:00	1387.8
12/18/2019 7:00	12/18/2019 8:00	1513.8
12/18/2019 8:00	12/18/2019 9:00	1549.9
12/18/2019 9:00	12/18/2019 10:00	1562.3
12/18/2019 10:00	12/18/2019 11:00	1544.8
12/18/2019 11:00	12/18/2019 12:00	1521.6
12/18/2019 12:00	12/18/2019 13:00	1523.2
12/18/2019 13:00	12/18/2019 14:00	1518.6
12/18/2019 14:00	12/18/2019 15:00	1513.3
12/18/2019 15:00	12/18/2019 16:00	1543.1
12/18/2019 16:00	12/18/2019 17:00	1625.5
12/18/2019 17:00	12/18/2019 18:00	1727.3
12/18/2019 18:00	12/18/2019 19:00	1675.2
12/18/2019 19:00	12/18/2019 20:00	1645.5
12/18/2019 20:00	12/18/2019 21:00	1598.7
12/18/2019 21:00	12/18/2019 22:00	1519.3
12/18/2019 22:00	12/18/2019 23:00	1418.2
12/18/2019 23:00	12/19/2019 0:00	1348.2
12/19/2019 0:00	12/19/2019 1:00	1273.3
12/19/2019 1:00	12/19/2019 2:00	1218.8
12/19/2019 2:00	12/19/2019 3:00	1260.5
12/19/2019 3:00	12/19/2019 4:00	1245.7
12/19/2019 4:00	12/19/2019 5:00	1234.3
12/19/2019 5:00	12/19/2019 6:00	1272.7
12/19/2019 6:00	12/19/2019 7:00	1374.6
12/19/2019 7:00	12/19/2019 8:00	1449.4
12/19/2019 8:00	12/19/2019 9:00	1453.1
12/19/2019 9:00	12/19/2019 10:00	1435.7
12/19/2019 10:00	12/19/2019 11:00	1356.5
12/19/2019 11:00	12/19/2019 12:00	1277.4
12/19/2019 12:00	12/19/2019 13:00	1239.0
12/19/2019 13:00	12/19/2019 14:00	1222.6
12/19/2019 14:00	12/19/2019 15:00	1238.7
12/19/2019 15:00	12/19/2019 16:00	1306.6
12/19/2019 16:00	12/19/2019 17:00	1412.8
12/19/2019 17:00	12/19/2019 18:00	1491.9
12/19/2019 18:00	12/19/2019 19:00	1493.2
12/19/2019 19:00	12/19/2019 20:00	1449.1
12/19/2019 20:00	12/19/2019 21:00	1418.4
12/19/2019 21:00	12/19/2019 22:00	1396.8

Start Time	End Time	ANL_MW
12/19/2019 22:00	12/19/2019 23:00	1310.7
12/19/2019 23:00	12/20/2019 0:00	1260.9
12/20/2019 0:00	12/20/2019 1:00	1212.1
12/20/2019 1:00	12/20/2019 2:00	1167.8
12/20/2019 2:00	12/20/2019 3:00	1167.0
12/20/2019 3:00	12/20/2019 4:00	1182.4
12/20/2019 4:00	12/20/2019 5:00	1175.7
12/20/2019 5:00	12/20/2019 6:00	1193.5
12/20/2019 6:00	12/20/2019 7:00	1252.9
12/20/2019 7:00	12/20/2019 8:00	1344.5
12/20/2019 8:00	12/20/2019 9:00	1385.0
12/20/2019 9:00	12/20/2019 10:00	1355.6
12/20/2019 10:00	12/20/2019 11:00	1292.9
12/20/2019 11:00	12/20/2019 12:00	1166.7
12/20/2019 12:00	12/20/2019 13:00	1178.7
12/20/2019 13:00	12/20/2019 14:00	1130.5
12/20/2019 14:00	12/20/2019 15:00	1093.0
12/20/2019 15:00	12/20/2019 16:00	1110.1
12/20/2019 16:00	12/20/2019 17:00	1169.8
12/20/2019 17:00	12/20/2019 18:00	1263.5
12/20/2019 18:00	12/20/2019 19:00	1264.2
12/20/2019 19:00	12/20/2019 20:00	1288.9
12/20/2019 20:00	12/20/2019 21:00	1282.5
12/20/2019 21:00	12/20/2019 22:00	1271.0
12/20/2019 22:00	12/20/2019 23:00	1207.7
12/20/2019 23:00	12/21/2019 0:00	1203.3
12/21/2019 0:00	12/21/2019 1:00	1201.5
12/21/2019 1:00	12/21/2019 2:00	1201.6
12/21/2019 2:00	12/21/2019 3:00	1170.2
12/21/2019 3:00	12/21/2019 4:00	1096.7
12/21/2019 4:00	12/21/2019 5:00	1101.9
12/21/2019 5:00	12/21/2019 6:00	1133.5
12/21/2019 6:00	12/21/2019 7:00	1219.6
12/21/2019 7:00	12/21/2019 8:00	1314.5
12/21/2019 8:00	12/21/2019 9:00	1414.4
12/21/2019 9:00	12/21/2019 10:00	1479.1
12/21/2019 10:00	12/21/2019 11:00	1429.6
12/21/2019 11:00	12/21/2019 12:00	1417.0
12/21/2019 12:00	12/21/2019 13:00	1427.7
12/21/2019 13:00	12/21/2019 14:00	1421.7
12/21/2019 14:00	12/21/2019 15:00	1386.5
12/21/2019 15:00	12/21/2019 16:00	1393.2
12/21/2019 16:00	12/21/2019 17:00	1491.2
12/21/2019 17:00	12/21/2019 18:00	1588.3
12/21/2019 18:00	12/21/2019 19:00	1545.9
12/21/2019 19:00	12/21/2019 20:00	1515.3
12/21/2019 20:00	12/21/2019 21:00	1502.2
12/21/2019 21:00	12/21/2019 22:00	1474.3
12/21/2019 22:00	12/21/2019 23:00	1418.7
12/21/2019 23:00	12/22/2019 0:00	1368.1
12/22/2019 0:00	12/22/2019 1:00	1311.4
12/22/2019 1:00	12/22/2019 2:00	1284.8
12/22/2019 2:00	12/22/2019 3:00	1289.3
12/22/2019 3:00	12/22/2019 4:00	1300.1
12/22/2019 4:00	12/22/2019 5:00	1321.5
12/22/2019 5:00	12/22/2019 6:00	1342.8
12/22/2019 6:00	12/22/2019 7:00	1398.3
12/22/2019 7:00	12/22/2019 8:00	1451.4
12/22/2019 8:00	12/22/2019 9:00	1511.4
12/22/2019 9:00	12/22/2019 10:00	1515.3
12/22/2019 10:00	12/22/2019 11:00	1469.6
12/22/2019 11:00	12/22/2019 12:00	1406.4
12/22/2019 12:00	12/22/2019 13:00	1365.7
12/22/2019 13:00	12/22/2019 14:00	1302.3
12/22/2019 14:00	12/22/2019 15:00	1266.7
12/22/2019 15:00	12/22/2019 16:00	1238.2
12/22/2019 16:00	12/22/2019 17:00	1267.6
12/22/2019 17:00	12/22/2019 18:00	1301.9
12/22/2019 18:00	12/22/2019 19:00	1240.0
12/22/2019 19:00	12/22/2019 20:00	1245.1

Start Time	End Time	ANL_MW
12/22/2019 20:00	12/22/2019 21:00	1259.3
12/22/2019 21:00	12/22/2019 22:00	1252.9
12/22/2019 22:00	12/22/2019 23:00	1215.4
12/22/2019 23:00	12/23/2019 0:00	1136.4
12/23/2019 0:00	12/23/2019 1:00	1077.2
12/23/2019 1:00	12/23/2019 2:00	1098.8
12/23/2019 2:00	12/23/2019 3:00	1098.7
12/23/2019 3:00	12/23/2019 4:00	1120.1
12/23/2019 4:00	12/23/2019 5:00	1104.7
12/23/2019 5:00	12/23/2019 6:00	1130.4
12/23/2019 6:00	12/23/2019 7:00	1175.6
12/23/2019 7:00	12/23/2019 8:00	1259.9
12/23/2019 8:00	12/23/2019 9:00	1381.9
12/23/2019 9:00	12/23/2019 10:00	1414.8
12/23/2019 10:00	12/23/2019 11:00	1427.9
12/23/2019 11:00	12/23/2019 12:00	1442.7
12/23/2019 12:00	12/23/2019 13:00	1448.0
12/23/2019 13:00	12/23/2019 14:00	1383.3
12/23/2019 14:00	12/23/2019 15:00	1379.2
12/23/2019 15:00	12/23/2019 16:00	1404.8
12/23/2019 16:00	12/23/2019 17:00	1452.8
12/23/2019 17:00	12/23/2019 18:00	1476.6
12/23/2019 18:00	12/23/2019 19:00	1377.5
12/23/2019 19:00	12/23/2019 20:00	1281.1
12/23/2019 20:00	12/23/2019 21:00	1217.9
12/23/2019 21:00	12/23/2019 22:00	1155.2
12/23/2019 22:00	12/23/2019 23:00	1142.4
12/23/2019 23:00	12/24/2019 0:00	1152.1
12/24/2019 0:00	12/24/2019 1:00	1092.0
12/24/2019 1:00	12/24/2019 2:00	1026.3
12/24/2019 2:00	12/24/2019 3:00	963.7
12/24/2019 3:00	12/24/2019 4:00	895.2
12/24/2019 4:00	12/24/2019 5:00	829.5
12/24/2019 5:00	12/24/2019 6:00	849.6
12/24/2019 6:00	12/24/2019 7:00	940.5
12/24/2019 7:00	12/24/2019 8:00	1012.7
12/24/2019 8:00	12/24/2019 9:00	1045.7
12/24/2019 9:00	12/24/2019 10:00	1110.9
12/24/2019 10:00	12/24/2019 11:00	1112.8
12/24/2019 11:00	12/24/2019 12:00	1097.2
12/24/2019 12:00	12/24/2019 13:00	1084.4
12/24/2019 13:00	12/24/2019 14:00	1055.0
12/24/2019 14:00	12/24/2019 15:00	1018.9
12/24/2019 15:00	12/24/2019 16:00	1015.6
12/24/2019 16:00	12/24/2019 17:00	1060.8
12/24/2019 17:00	12/24/2019 18:00	1125.7
12/24/2019 18:00	12/24/2019 19:00	1040.8
12/24/2019 19:00	12/24/2019 20:00	1016.4
12/24/2019 20:00	12/24/2019 21:00	1019.5
12/24/2019 21:00	12/24/2019 22:00	959.1
12/24/2019 22:00	12/24/2019 23:00	943.9
12/24/2019 23:00	12/25/2019 0:00	906.4
12/25/2019 0:00	12/25/2019 1:00	906.0
12/25/2019 1:00	12/25/2019 2:00	930.7
12/25/2019 2:00	12/25/2019 3:00	933.5
12/25/2019 3:00	12/25/2019 4:00	923.6
12/25/2019 4:00	12/25/2019 5:00	973.6
12/25/2019 5:00	12/25/2019 6:00	1065.5
12/25/2019 6:00	12/25/2019 7:00	1199.8
12/25/2019 7:00	12/25/2019 8:00	1300.4
12/25/2019 8:00	12/25/2019 9:00	1416.5
12/25/2019 9:00	12/25/2019 10:00	1408.6
12/25/2019 10:00	12/25/2019 11:00	1418.3
12/25/2019 11:00	12/25/2019 12:00	1416.6
12/25/2019 12:00	12/25/2019 13:00	1383.1
12/25/2019 13:00	12/25/2019 14:00	1340.7
12/25/2019 14:00	12/25/2019 15:00	1310.6
12/25/2019 15:00	12/25/2019 16:00	1320.7
12/25/2019 16:00	12/25/2019 17:00	1366.6
12/25/2019 17:00	12/25/2019 18:00	1373.2

Start Time	End Time	ANL_MW
12/25/2019 18:00	12/25/2019 19:00	1294.9
12/25/2019 19:00	12/25/2019 20:00	1277.1
12/25/2019 20:00	12/25/2019 21:00	1274.3
12/25/2019 21:00	12/25/2019 22:00	1258.7
12/25/2019 22:00	12/25/2019 23:00	1209.7
12/25/2019 23:00	12/26/2019 0:00	1201.7
12/26/2019 0:00	12/26/2019 1:00	1197.1
12/26/2019 1:00	12/26/2019 2:00	1127.4
12/26/2019 2:00	12/26/2019 3:00	1096.7
12/26/2019 3:00	12/26/2019 4:00	1074.8
12/26/2019 4:00	12/26/2019 5:00	1035.5
12/26/2019 5:00	12/26/2019 6:00	1006.3
12/26/2019 6:00	12/26/2019 7:00	1069.6
12/26/2019 7:00	12/26/2019 8:00	1121.3
12/26/2019 8:00	12/26/2019 9:00	1225.4
12/26/2019 9:00	12/26/2019 10:00	1306.6
12/26/2019 10:00	12/26/2019 11:00	1238.2
12/26/2019 11:00	12/26/2019 12:00	1217.8
12/26/2019 12:00	12/26/2019 13:00	1191.0
12/26/2019 13:00	12/26/2019 14:00	1160.8
12/26/2019 14:00	12/26/2019 15:00	1153.0
12/26/2019 15:00	12/26/2019 16:00	1170.1
12/26/2019 16:00	12/26/2019 17:00	1272.3
12/26/2019 17:00	12/26/2019 18:00	1369.0
12/26/2019 18:00	12/26/2019 19:00	1354.8
12/26/2019 19:00	12/26/2019 20:00	1345.5
12/26/2019 20:00	12/26/2019 21:00	1353.1
12/26/2019 21:00	12/26/2019 22:00	1307.8
12/26/2019 22:00	12/26/2019 23:00	1302.6
12/26/2019 23:00	12/27/2019 0:00	1247.2
12/27/2019 0:00	12/27/2019 1:00	1194.1
12/27/2019 1:00	12/27/2019 2:00	1208.7
12/27/2019 2:00	12/27/2019 3:00	1247.4
12/27/2019 3:00	12/27/2019 4:00	1325.9
12/27/2019 4:00	12/27/2019 5:00	1373.1
12/27/2019 5:00	12/27/2019 6:00	1451.0
12/27/2019 6:00	12/27/2019 7:00	1493.1
12/27/2019 7:00	12/27/2019 8:00	1521.2
12/27/2019 8:00	12/27/2019 9:00	1537.9
12/27/2019 9:00	12/27/2019 10:00	1482.7
12/27/2019 10:00	12/27/2019 11:00	1454.0
12/27/2019 11:00	12/27/2019 12:00	1498.7
12/27/2019 12:00	12/27/2019 13:00	1505.6
12/27/2019 13:00	12/27/2019 14:00	1482.7
12/27/2019 14:00	12/27/2019 15:00	1467.5
12/27/2019 15:00	12/27/2019 16:00	1399.8
12/27/2019 16:00	12/27/2019 17:00	1369.7
12/27/2019 17:00	12/27/2019 18:00	1349.6
12/27/2019 18:00	12/27/2019 19:00	1289.6
12/27/2019 19:00	12/27/2019 20:00	1267.6
12/27/2019 20:00	12/27/2019 21:00	1241.1
12/27/2019 21:00	12/27/2019 22:00	1141.1
12/27/2019 22:00	12/27/2019 23:00	1033.5
12/27/2019 23:00	12/28/2019 0:00	984.1
12/28/2019 0:00	12/28/2019 1:00	919.7
12/28/2019 1:00	12/28/2019 2:00	869.8
12/28/2019 2:00	12/28/2019 3:00	794.6
12/28/2019 3:00	12/28/2019 4:00	748.0
12/28/2019 4:00	12/28/2019 5:00	754.7
12/28/2019 5:00	12/28/2019 6:00	826.7
12/28/2019 6:00	12/28/2019 7:00	901.0
12/28/2019 7:00	12/28/2019 8:00	1004.0
12/28/2019 8:00	12/28/2019 9:00	1058.7
12/28/2019 9:00	12/28/2019 10:00	1157.1
12/28/2019 10:00	12/28/2019 11:00	1156.8
12/28/2019 11:00	12/28/2019 12:00	1098.0
12/28/2019 12:00	12/28/2019 13:00	1058.6
12/28/2019 13:00	12/28/2019 14:00	997.6
12/28/2019 14:00	12/28/2019 15:00	1032.2
12/28/2019 15:00	12/28/2019 16:00	1007.6

Start Time	End Time	ANL_MW
12/28/2019 16:00	12/28/2019 17:00	1116.8
12/28/2019 17:00	12/28/2019 18:00	1254.6
12/28/2019 18:00	12/28/2019 19:00	1217.9
12/28/2019 19:00	12/28/2019 20:00	1161.6
12/28/2019 20:00	12/28/2019 21:00	1111.3
12/28/2019 21:00	12/28/2019 22:00	1062.4
12/28/2019 22:00	12/28/2019 23:00	998.4
12/28/2019 23:00	12/29/2019 0:00	983.8
12/29/2019 0:00	12/29/2019 1:00	932.8
12/29/2019 1:00	12/29/2019 2:00	915.3
12/29/2019 2:00	12/29/2019 3:00	909.0
12/29/2019 3:00	12/29/2019 4:00	863.6
12/29/2019 4:00	12/29/2019 5:00	858.9
12/29/2019 5:00	12/29/2019 6:00	873.4
12/29/2019 6:00	12/29/2019 7:00	946.5
12/29/2019 7:00	12/29/2019 8:00	1016.2
12/29/2019 8:00	12/29/2019 9:00	1011.8
12/29/2019 9:00	12/29/2019 10:00	1090.3
12/29/2019 10:00	12/29/2019 11:00	1102.5
12/29/2019 11:00	12/29/2019 12:00	1129.0
12/29/2019 12:00	12/29/2019 13:00	1126.2
12/29/2019 13:00	12/29/2019 14:00	1115.8
12/29/2019 14:00	12/29/2019 15:00	1094.8
12/29/2019 15:00	12/29/2019 16:00	1129.4
12/29/2019 16:00	12/29/2019 17:00	1301.9
12/29/2019 17:00	12/29/2019 18:00	1460.0
12/29/2019 18:00	12/29/2019 19:00	1393.8
12/29/2019 19:00	12/29/2019 20:00	1371.3
12/29/2019 20:00	12/29/2019 21:00	1336.1
12/29/2019 21:00	12/29/2019 22:00	1271.3
12/29/2019 22:00	12/29/2019 23:00	1235.4
12/29/2019 23:00	12/30/2019 0:00	1173.5
12/30/2019 0:00	12/30/2019 1:00	1129.9
12/30/2019 1:00	12/30/2019 2:00	1122.2
12/30/2019 2:00	12/30/2019 3:00	1115.1
12/30/2019 3:00	12/30/2019 4:00	1116.3
12/30/2019 4:00	12/30/2019 5:00	1138.8
12/30/2019 5:00	12/30/2019 6:00	1159.7
12/30/2019 6:00	12/30/2019 7:00	1243.9
12/30/2019 7:00	12/30/2019 8:00	1325.6
12/30/2019 8:00	12/30/2019 9:00	1338.4
12/30/2019 9:00	12/30/2019 10:00	1328.9
12/30/2019 10:00	12/30/2019 11:00	1312.6
12/30/2019 11:00	12/30/2019 12:00	1367.5
12/30/2019 12:00	12/30/2019 13:00	1389.2
12/30/2019 13:00	12/30/2019 14:00	1390.7
12/30/2019 14:00	12/30/2019 15:00	1391.5
12/30/2019 15:00	12/30/2019 16:00	1415.5
12/30/2019 16:00	12/30/2019 17:00	1500.6
12/30/2019 17:00	12/30/2019 18:00	1539.0
12/30/2019 18:00	12/30/2019 19:00	1416.6
12/30/2019 19:00	12/30/2019 20:00	1367.3
12/30/2019 20:00	12/30/2019 21:00	1321.6
12/30/2019 21:00	12/30/2019 22:00	1292.6
12/30/2019 22:00	12/30/2019 23:00	1213.6
12/30/2019 23:00	12/31/2019 0:00	1249.9
12/31/2019 0:00	12/31/2019 1:00	1222.1
12/31/2019 1:00	12/31/2019 2:00	1193.5
12/31/2019 2:00	12/31/2019 3:00	1253.3
12/31/2019 3:00	12/31/2019 4:00	1234.4
12/31/2019 4:00	12/31/2019 5:00	1221.1
12/31/2019 5:00	12/31/2019 6:00	1245.8
12/31/2019 6:00	12/31/2019 7:00	1286.2
12/31/2019 7:00	12/31/2019 8:00	1230.8
12/31/2019 8:00	12/31/2019 9:00	1262.8
12/31/2019 9:00	12/31/2019 10:00	1240.7
12/31/2019 10:00	12/31/2019 11:00	1201.6
12/31/2019 11:00	12/31/2019 12:00	1209.7
12/31/2019 12:00	12/31/2019 13:00	1219.0
12/31/2019 13:00	12/31/2019 14:00	1181.4

Start Time	End Time	ANL_MW
12/31/2019 14:00	12/31/2019 15:00	1143.6
12/31/2019 15:00	12/31/2019 16:00	1130.2
12/31/2019 16:00	12/31/2019 17:00	1160.7
12/31/2019 17:00	12/31/2019 18:00	1215.1
12/31/2019 18:00	12/31/2019 19:00	1161.8
12/31/2019 19:00	12/31/2019 20:00	1091.6
12/31/2019 20:00	12/31/2019 21:00	1025.4
12/31/2019 21:00	12/31/2019 22:00	973.2
12/31/2019 22:00	12/31/2019 23:00	946.5
12/31/2019 23:00	1/1/2020 0:00	993.2
1/1/2020 0:00	1/1/2020 1:00	1017.0
1/1/2020 1:00	1/1/2020 2:00	971.6
1/1/2020 2:00	1/1/2020 3:00	912.3
1/1/2020 3:00	1/1/2020 4:00	964.5
1/1/2020 4:00	1/1/2020 5:00	970.0
1/1/2020 5:00	1/1/2020 6:00	1001.0
1/1/2020 6:00	1/1/2020 7:00	961.5
1/1/2020 7:00	1/1/2020 8:00	1007.1
1/1/2020 8:00	1/1/2020 9:00	993.3
1/1/2020 9:00	1/1/2020 10:00	1060.0
1/1/2020 10:00	1/1/2020 11:00	1087.6
1/1/2020 11:00	1/1/2020 12:00	1123.8
1/1/2020 12:00	1/1/2020 13:00	1129.2
1/1/2020 13:00	1/1/2020 14:00	1122.7
1/1/2020 14:00	1/1/2020 15:00	1130.4
1/1/2020 15:00	1/1/2020 16:00	1147.2
1/1/2020 16:00	1/1/2020 17:00	1192.4
1/1/2020 17:00	1/1/2020 18:00	1250.7
1/1/2020 18:00	1/1/2020 19:00	1225.9
1/1/2020 19:00	1/1/2020 20:00	1232.5
1/1/2020 20:00	1/1/2020 21:00	1192.7
1/1/2020 21:00	1/1/2020 22:00	1145.5
1/1/2020 22:00	1/1/2020 23:00	1084.9
1/1/2020 23:00	1/2/2020 0:00	1016.6
1/2/2020 0:00	1/2/2020 1:00	923.1
1/2/2020 1:00	1/2/2020 2:00	884.1
1/2/2020 2:00	1/2/2020 3:00	839.4
1/2/2020 3:00	1/2/2020 4:00	839.7
1/2/2020 4:00	1/2/2020 5:00	865.5
1/2/2020 5:00	1/2/2020 6:00	923.2
1/2/2020 6:00	1/2/2020 7:00	975.7
1/2/2020 7:00	1/2/2020 8:00	1061.8
1/2/2020 8:00	1/2/2020 9:00	1126.5
1/2/2020 9:00	1/2/2020 10:00	1148.9
1/2/2020 10:00	1/2/2020 11:00	1158.2
1/2/2020 11:00	1/2/2020 12:00	1165.6
1/2/2020 12:00	1/2/2020 13:00	1156.2
1/2/2020 13:00	1/2/2020 14:00	1157.4
1/2/2020 14:00	1/2/2020 15:00	1125.1
1/2/2020 15:00	1/2/2020 16:00	1156.1
1/2/2020 16:00	1/2/2020 17:00	1239.4
1/2/2020 17:00	1/2/2020 18:00	1312.9
1/2/2020 18:00	1/2/2020 19:00	1314.5
1/2/2020 19:00	1/2/2020 20:00	1326.4
1/2/2020 20:00	1/2/2020 21:00	1327.7
1/2/2020 21:00	1/2/2020 22:00	1323.3
1/2/2020 22:00	1/2/2020 23:00	1272.0
1/2/2020 23:00	1/3/2020 0:00	1225.1
1/3/2020 0:00	1/3/2020 1:00	1162.0
1/3/2020 1:00	1/3/2020 2:00	1120.1
1/3/2020 2:00	1/3/2020 3:00	1124.5
1/3/2020 3:00	1/3/2020 4:00	1119.2
1/3/2020 4:00	1/3/2020 5:00	1118.1
1/3/2020 5:00	1/3/2020 6:00	1176.0
1/3/2020 6:00	1/3/2020 7:00	1202.9
1/3/2020 7:00	1/3/2020 8:00	1304.4
1/3/2020 8:00	1/3/2020 9:00	1355.8
1/3/2020 9:00	1/3/2020 10:00	1411.7
1/3/2020 10:00	1/3/2020 11:00	1427.1
1/3/2020 11:00	1/3/2020 12:00	1472.8

Start Time	End Time	ANL_MW
1/3/2020 12:00	1/3/2020 13:00	1467.0
1/3/2020 13:00	1/3/2020 14:00	1422.3
1/3/2020 14:00	1/3/2020 15:00	1398.7
1/3/2020 15:00	1/3/2020 16:00	1419.2
1/3/2020 16:00	1/3/2020 17:00	1446.1
1/3/2020 17:00	1/3/2020 18:00	1488.3
1/3/2020 18:00	1/3/2020 19:00	1446.5
1/3/2020 19:00	1/3/2020 20:00	1397.2
1/3/2020 20:00	1/3/2020 21:00	1345.9
1/3/2020 21:00	1/3/2020 22:00	1311.6
1/3/2020 22:00	1/3/2020 23:00	1252.1
1/3/2020 23:00	1/4/2020 0:00	1220.3
1/4/2020 0:00	1/4/2020 1:00	1173.0
1/4/2020 1:00	1/4/2020 2:00	1111.6
1/4/2020 2:00	1/4/2020 3:00	1048.1
1/4/2020 3:00	1/4/2020 4:00	1030.2
1/4/2020 4:00	1/4/2020 5:00	1008.1
1/4/2020 5:00	1/4/2020 6:00	1030.3
1/4/2020 6:00	1/4/2020 7:00	1078.9
1/4/2020 7:00	1/4/2020 8:00	1152.2
1/4/2020 8:00	1/4/2020 9:00	1245.3
1/4/2020 9:00	1/4/2020 10:00	1288.8
1/4/2020 10:00	1/4/2020 11:00	1360.1
1/4/2020 11:00	1/4/2020 12:00	1401.9
1/4/2020 12:00	1/4/2020 13:00	1407.5
1/4/2020 13:00	1/4/2020 14:00	1409.8
1/4/2020 14:00	1/4/2020 15:00	1412.1
1/4/2020 15:00	1/4/2020 16:00	1428.1
1/4/2020 16:00	1/4/2020 17:00	1508.1
1/4/2020 17:00	1/4/2020 18:00	1590.6
1/4/2020 18:00	1/4/2020 19:00	1550.0
1/4/2020 19:00	1/4/2020 20:00	1501.1
1/4/2020 20:00	1/4/2020 21:00	1447.2
1/4/2020 21:00	1/4/2020 22:00	1386.2
1/4/2020 22:00	1/4/2020 23:00	1316.3
1/4/2020 23:00	1/5/2020 0:00	1258.6
1/5/2020 0:00	1/5/2020 1:00	1196.4
1/5/2020 1:00	1/5/2020 2:00	1201.2
1/5/2020 2:00	1/5/2020 3:00	1157.4
1/5/2020 3:00	1/5/2020 4:00	1136.3
1/5/2020 4:00	1/5/2020 5:00	1116.3
1/5/2020 5:00	1/5/2020 6:00	1106.5
1/5/2020 6:00	1/5/2020 7:00	1127.5
1/5/2020 7:00	1/5/2020 8:00	1155.2
1/5/2020 8:00	1/5/2020 9:00	1196.3
1/5/2020 9:00	1/5/2020 10:00	1213.1
1/5/2020 10:00	1/5/2020 11:00	1214.6
1/5/2020 11:00	1/5/2020 12:00	1199.1
1/5/2020 12:00	1/5/2020 13:00	1219.9
1/5/2020 13:00	1/5/2020 14:00	1218.2
1/5/2020 14:00	1/5/2020 15:00	1188.7
1/5/2020 15:00	1/5/2020 16:00	1188.6
1/5/2020 16:00	1/5/2020 17:00	1179.9
1/5/2020 17:00	1/5/2020 18:00	1312.8
1/5/2020 18:00	1/5/2020 19:00	1291.7
1/5/2020 19:00	1/5/2020 20:00	1281.0
1/5/2020 20:00	1/5/2020 21:00	1241.4
1/5/2020 21:00	1/5/2020 22:00	1187.9
1/5/2020 22:00	1/5/2020 23:00	1175.6
1/5/2020 23:00	1/6/2020 0:00	1149.8
1/6/2020 0:00	1/6/2020 1:00	1100.9
1/6/2020 1:00	1/6/2020 2:00	1094.9
1/6/2020 2:00	1/6/2020 3:00	1103.1
1/6/2020 3:00	1/6/2020 4:00	1133.6
1/6/2020 4:00	1/6/2020 5:00	1176.9
1/6/2020 5:00	1/6/2020 6:00	1239.1
1/6/2020 6:00	1/6/2020 7:00	1403.8
1/6/2020 7:00	1/6/2020 8:00	1503.3
1/6/2020 8:00	1/6/2020 9:00	1538.3
1/6/2020 9:00	1/6/2020 10:00	1559.4

Start Time	End Time	ANL_MW
1/6/2020 10:00	1/6/2020 11:00	1557.7
1/6/2020 11:00	1/6/2020 12:00	1573.5
1/6/2020 12:00	1/6/2020 13:00	1590.1
1/6/2020 13:00	1/6/2020 14:00	1584.9
1/6/2020 14:00	1/6/2020 15:00	1576.6
1/6/2020 15:00	1/6/2020 16:00	1612.2
1/6/2020 16:00	1/6/2020 17:00	1686.5
1/6/2020 17:00	1/6/2020 18:00	1759.2
1/6/2020 18:00	1/6/2020 19:00	1720.0
1/6/2020 19:00	1/6/2020 20:00	1682.0
1/6/2020 20:00	1/6/2020 21:00	1641.1
1/6/2020 21:00	1/6/2020 22:00	1560.4
1/6/2020 22:00	1/6/2020 23:00	1465.2
1/6/2020 23:00	1/7/2020 0:00	1456.8
1/7/2020 0:00	1/7/2020 1:00	1456.8
1/7/2020 1:00	1/7/2020 2:00	1419.1
1/7/2020 2:00	1/7/2020 3:00	1372.2
1/7/2020 3:00	1/7/2020 4:00	1374.0
1/7/2020 4:00	1/7/2020 5:00	1371.3
1/7/2020 5:00	1/7/2020 6:00	1391.8
1/7/2020 6:00	1/7/2020 7:00	1453.3
1/7/2020 7:00	1/7/2020 8:00	1530.6
1/7/2020 8:00	1/7/2020 9:00	1577.9
1/7/2020 9:00	1/7/2020 10:00	1558.7
1/7/2020 10:00	1/7/2020 11:00	1512.7
1/7/2020 11:00	1/7/2020 12:00	1438.2
1/7/2020 12:00	1/7/2020 13:00	1434.0
1/7/2020 13:00	1/7/2020 14:00	1404.4
1/7/2020 14:00	1/7/2020 15:00	1393.8
1/7/2020 15:00	1/7/2020 16:00	1387.5
1/7/2020 16:00	1/7/2020 17:00	1451.6
1/7/2020 17:00	1/7/2020 18:00	1552.4
1/7/2020 18:00	1/7/2020 19:00	1556.6
1/7/2020 19:00	1/7/2020 20:00	1641.4
1/7/2020 20:00	1/7/2020 21:00	1639.5
1/7/2020 21:00	1/7/2020 22:00	1580.5
1/7/2020 22:00	1/7/2020 23:00	1503.3
1/7/2020 23:00	1/8/2020 0:00	1494.6
1/8/2020 0:00	1/8/2020 1:00	1465.3
1/8/2020 1:00	1/8/2020 2:00	1449.3
1/8/2020 2:00	1/8/2020 3:00	1355.9
1/8/2020 3:00	1/8/2020 4:00	1237.5
1/8/2020 4:00	1/8/2020 5:00	1229.8
1/8/2020 5:00	1/8/2020 6:00	1230.9
1/8/2020 6:00	1/8/2020 7:00	1257.2
1/8/2020 7:00	1/8/2020 8:00	1287.8
1/8/2020 8:00	1/8/2020 9:00	1345.4
1/8/2020 9:00	1/8/2020 10:00	1430.5
1/8/2020 10:00	1/8/2020 11:00	1425.6
1/8/2020 11:00	1/8/2020 12:00	1438.2
1/8/2020 12:00	1/8/2020 13:00	1390.4
1/8/2020 13:00	1/8/2020 14:00	1307.5
1/8/2020 14:00	1/8/2020 15:00	1267.5
1/8/2020 15:00	1/8/2020 16:00	1309.7
1/8/2020 16:00	1/8/2020 17:00	1378.6
1/8/2020 17:00	1/8/2020 18:00	1443.7
1/8/2020 18:00	1/8/2020 19:00	1382.6
1/8/2020 19:00	1/8/2020 20:00	1325.8
1/8/2020 20:00	1/8/2020 21:00	1320.4
1/8/2020 21:00	1/8/2020 22:00	1221.9
1/8/2020 22:00	1/8/2020 23:00	1149.3
1/8/2020 23:00	1/9/2020 0:00	1127.4
1/9/2020 0:00	1/9/2020 1:00	1089.7
1/9/2020 1:00	1/9/2020 2:00	1031.0
1/9/2020 2:00	1/9/2020 3:00	1027.0
1/9/2020 3:00	1/9/2020 4:00	1012.2
1/9/2020 4:00	1/9/2020 5:00	1015.4
1/9/2020 5:00	1/9/2020 6:00	1035.4
1/9/2020 6:00	1/9/2020 7:00	1141.1
1/9/2020 7:00	1/9/2020 8:00	1246.5

Start Time	End Time	ANL_MW
1/9/2020 8:00	1/9/2020 9:00	1277.7
1/9/2020 9:00	1/9/2020 10:00	1260.5
1/9/2020 10:00	1/9/2020 11:00	1242.1
1/9/2020 11:00	1/9/2020 12:00	1235.0
1/9/2020 12:00	1/9/2020 13:00	1264.4
1/9/2020 13:00	1/9/2020 14:00	1249.0
1/9/2020 14:00	1/9/2020 15:00	1247.6
1/9/2020 15:00	1/9/2020 16:00	1302.0
1/9/2020 16:00	1/9/2020 17:00	1402.6
1/9/2020 17:00	1/9/2020 18:00	1516.2
1/9/2020 18:00	1/9/2020 19:00	1511.7
1/9/2020 19:00	1/9/2020 20:00	1496.7
1/9/2020 20:00	1/9/2020 21:00	1459.4
1/9/2020 21:00	1/9/2020 22:00	1424.5
1/9/2020 22:00	1/9/2020 23:00	1359.8
1/9/2020 23:00	1/10/2020 0:00	1381.0
1/10/2020 0:00	1/10/2020 1:00	1420.7
1/10/2020 1:00	1/10/2020 2:00	1479.0
1/10/2020 2:00	1/10/2020 3:00	1542.2
1/10/2020 3:00	1/10/2020 4:00	1517.1
1/10/2020 4:00	1/10/2020 5:00	1492.9
1/10/2020 5:00	1/10/2020 6:00	1564.7
1/10/2020 6:00	1/10/2020 7:00	1672.1
1/10/2020 7:00	1/10/2020 8:00	1663.7
1/10/2020 8:00	1/10/2020 9:00	1579.0
1/10/2020 9:00	1/10/2020 10:00	1468.1
1/10/2020 10:00	1/10/2020 11:00	1368.4
1/10/2020 11:00	1/10/2020 12:00	1299.7
1/10/2020 12:00	1/10/2020 13:00	1280.0
1/10/2020 13:00	1/10/2020 14:00	1226.3
1/10/2020 14:00	1/10/2020 15:00	1179.4
1/10/2020 15:00	1/10/2020 16:00	1177.5
1/10/2020 16:00	1/10/2020 17:00	1215.4
1/10/2020 17:00	1/10/2020 18:00	1257.1
1/10/2020 18:00	1/10/2020 19:00	1205.1
1/10/2020 19:00	1/10/2020 20:00	1179.7
1/10/2020 20:00	1/10/2020 21:00	1155.3
1/10/2020 21:00	1/10/2020 22:00	1083.3
1/10/2020 22:00	1/10/2020 23:00	1027.1
1/10/2020 23:00	1/11/2020 0:00	1061.6
1/11/2020 0:00	1/11/2020 1:00	1017.0
1/11/2020 1:00	1/11/2020 2:00	967.6
1/11/2020 2:00	1/11/2020 3:00	950.1
1/11/2020 3:00	1/11/2020 4:00	935.3
1/11/2020 4:00	1/11/2020 5:00	950.5
1/11/2020 5:00	1/11/2020 6:00	1014.9
1/11/2020 6:00	1/11/2020 7:00	1097.9
1/11/2020 7:00	1/11/2020 8:00	1155.2
1/11/2020 8:00	1/11/2020 9:00	1194.1
1/11/2020 9:00	1/11/2020 10:00	1231.6
1/11/2020 10:00	1/11/2020 11:00	1216.9
1/11/2020 11:00	1/11/2020 12:00	1163.4
1/11/2020 12:00	1/11/2020 13:00	1095.8
1/11/2020 13:00	1/11/2020 14:00	1035.9
1/11/2020 14:00	1/11/2020 15:00	978.6
1/11/2020 15:00	1/11/2020 16:00	979.1
1/11/2020 16:00	1/11/2020 17:00	1025.4
1/11/2020 17:00	1/11/2020 18:00	1103.0
1/11/2020 18:00	1/11/2020 19:00	1044.1
1/11/2020 19:00	1/11/2020 20:00	1041.9
1/11/2020 20:00	1/11/2020 21:00	991.7
1/11/2020 21:00	1/11/2020 22:00	912.6
1/11/2020 22:00	1/11/2020 23:00	829.3
1/11/2020 23:00	1/12/2020 0:00	831.7
1/12/2020 0:00	1/12/2020 1:00	799.6
1/12/2020 1:00	1/12/2020 2:00	806.8
1/12/2020 2:00	1/12/2020 3:00	866.1
1/12/2020 3:00	1/12/2020 4:00	928.2
1/12/2020 4:00	1/12/2020 5:00	912.9
1/12/2020 5:00	1/12/2020 6:00	931.9

Start Time	End Time	ANL_MW
1/12/2020 6:00	1/12/2020 7:00	979.8
1/12/2020 7:00	1/12/2020 8:00	1077.7
1/12/2020 8:00	1/12/2020 9:00	1201.9
1/12/2020 9:00	1/12/2020 10:00	1351.7
1/12/2020 10:00	1/12/2020 11:00	1469.9
1/12/2020 11:00	1/12/2020 12:00	1523.9
1/12/2020 12:00	1/12/2020 13:00	1539.2
1/12/2020 13:00	1/12/2020 14:00	1530.7
1/12/2020 14:00	1/12/2020 15:00	1467.6
1/12/2020 15:00	1/12/2020 16:00	1464.7
1/12/2020 16:00	1/12/2020 17:00	1537.8
1/12/2020 17:00	1/12/2020 18:00	1562.0
1/12/2020 18:00	1/12/2020 19:00	1519.8
1/12/2020 19:00	1/12/2020 20:00	1494.1
1/12/2020 20:00	1/12/2020 21:00	1451.5
1/12/2020 21:00	1/12/2020 22:00	1398.3
1/12/2020 22:00	1/12/2020 23:00	1354.0
1/12/2020 23:00	1/13/2020 0:00	1283.8
1/13/2020 0:00	1/13/2020 1:00	1272.0
1/13/2020 1:00	1/13/2020 2:00	1274.4
1/13/2020 2:00	1/13/2020 3:00	1282.5
1/13/2020 3:00	1/13/2020 4:00	1290.0
1/13/2020 4:00	1/13/2020 5:00	1329.1
1/13/2020 5:00	1/13/2020 6:00	1372.1
1/13/2020 6:00	1/13/2020 7:00	1475.6
1/13/2020 7:00	1/13/2020 8:00	1597.2
1/13/2020 8:00	1/13/2020 9:00	1637.0
1/13/2020 9:00	1/13/2020 10:00	1651.2
1/13/2020 10:00	1/13/2020 11:00	1651.5
1/13/2020 11:00	1/13/2020 12:00	1644.3
1/13/2020 12:00	1/13/2020 13:00	1661.6
1/13/2020 13:00	1/13/2020 14:00	1641.0
1/13/2020 14:00	1/13/2020 15:00	1634.7
1/13/2020 15:00	1/13/2020 16:00	1663.1
1/13/2020 16:00	1/13/2020 17:00	1717.3
1/13/2020 17:00	1/13/2020 18:00	1780.9
1/13/2020 18:00	1/13/2020 19:00	1735.8
1/13/2020 19:00	1/13/2020 20:00	1704.2
1/13/2020 20:00	1/13/2020 21:00	1648.2
1/13/2020 21:00	1/13/2020 22:00	1573.5
1/13/2020 22:00	1/13/2020 23:00	1527.9
1/13/2020 23:00	1/14/2020 0:00	1511.5
1/14/2020 0:00	1/14/2020 1:00	1478.7
1/14/2020 1:00	1/14/2020 2:00	1444.3
1/14/2020 2:00	1/14/2020 3:00	1495.0
1/14/2020 3:00	1/14/2020 4:00	1498.8
1/14/2020 4:00	1/14/2020 5:00	1406.5
1/14/2020 5:00	1/14/2020 6:00	1472.3
1/14/2020 6:00	1/14/2020 7:00	1592.6
1/14/2020 7:00	1/14/2020 8:00	1668.4
1/14/2020 8:00	1/14/2020 9:00	1606.4
1/14/2020 9:00	1/14/2020 10:00	1577.8
1/14/2020 10:00	1/14/2020 11:00	1571.3
1/14/2020 11:00	1/14/2020 12:00	1579.5
1/14/2020 12:00	1/14/2020 13:00	1597.1
1/14/2020 13:00	1/14/2020 14:00	1588.5
1/14/2020 14:00	1/14/2020 15:00	1582.0
1/14/2020 15:00	1/14/2020 16:00	1604.9
1/14/2020 16:00	1/14/2020 17:00	1657.4
1/14/2020 17:00	1/14/2020 18:00	1733.3
1/14/2020 18:00	1/14/2020 19:00	1703.1
1/14/2020 19:00	1/14/2020 20:00	1672.9
1/14/2020 20:00	1/14/2020 21:00	1628.6
1/14/2020 21:00	1/14/2020 22:00	1558.7
1/14/2020 22:00	1/14/2020 23:00	1478.0
1/14/2020 23:00	1/15/2020 0:00	1441.7
1/15/2020 0:00	1/15/2020 1:00	1482.8
1/15/2020 1:00	1/15/2020 2:00	1456.0
1/15/2020 2:00	1/15/2020 3:00	1428.2
1/15/2020 3:00	1/15/2020 4:00	1414.1

Start Time	End Time	ANL_MW
1/15/2020 4:00	1/15/2020 5:00	1418.4
1/15/2020 5:00	1/15/2020 6:00	1459.7
1/15/2020 6:00	1/15/2020 7:00	1591.8
1/15/2020 7:00	1/15/2020 8:00	1628.4
1/15/2020 8:00	1/15/2020 9:00	1641.7
1/15/2020 9:00	1/15/2020 10:00	1619.2
1/15/2020 10:00	1/15/2020 11:00	1581.8
1/15/2020 11:00	1/15/2020 12:00	1578.7
1/15/2020 12:00	1/15/2020 13:00	1566.0
1/15/2020 13:00	1/15/2020 14:00	1525.9
1/15/2020 14:00	1/15/2020 15:00	1485.9
1/15/2020 15:00	1/15/2020 16:00	1515.2
1/15/2020 16:00	1/15/2020 17:00	1534.9
1/15/2020 17:00	1/15/2020 18:00	1581.8
1/15/2020 18:00	1/15/2020 19:00	1561.8
1/15/2020 19:00	1/15/2020 20:00	1543.9
1/15/2020 20:00	1/15/2020 21:00	1521.8
1/15/2020 21:00	1/15/2020 22:00	1459.7
1/15/2020 22:00	1/15/2020 23:00	1374.7
1/15/2020 23:00	1/16/2020 0:00	1353.3
1/16/2020 0:00	1/16/2020 1:00	1342.4
1/16/2020 1:00	1/16/2020 2:00	1371.5
1/16/2020 2:00	1/16/2020 3:00	1357.4
1/16/2020 3:00	1/16/2020 4:00	1356.9
1/16/2020 4:00	1/16/2020 5:00	1367.5
1/16/2020 5:00	1/16/2020 6:00	1428.9
1/16/2020 6:00	1/16/2020 7:00	1510.2
1/16/2020 7:00	1/16/2020 8:00	1621.9
1/16/2020 8:00	1/16/2020 9:00	1640.3
1/16/2020 9:00	1/16/2020 10:00	1639.6
1/16/2020 10:00	1/16/2020 11:00	1633.5
1/16/2020 11:00	1/16/2020 12:00	1625.7
1/16/2020 12:00	1/16/2020 13:00	1634.3
1/16/2020 13:00	1/16/2020 14:00	1615.6
1/16/2020 14:00	1/16/2020 15:00	1592.2
1/16/2020 15:00	1/16/2020 16:00	1598.8
1/16/2020 16:00	1/16/2020 17:00	1624.3
1/16/2020 17:00	1/16/2020 18:00	1684.1
1/16/2020 18:00	1/16/2020 19:00	1639.0
1/16/2020 19:00	1/16/2020 20:00	1588.1
1/16/2020 20:00	1/16/2020 21:00	1527.4
1/16/2020 21:00	1/16/2020 22:00	1422.8
1/16/2020 22:00	1/16/2020 23:00	1363.6
1/16/2020 23:00	1/17/2020 0:00	1309.2
1/17/2020 0:00	1/17/2020 1:00	1252.8
1/17/2020 1:00	1/17/2020 2:00	1274.5
1/17/2020 2:00	1/17/2020 3:00	1288.9
1/17/2020 3:00	1/17/2020 4:00	1234.7
1/17/2020 4:00	1/17/2020 5:00	1281.7
1/17/2020 5:00	1/17/2020 6:00	1376.1
1/17/2020 6:00	1/17/2020 7:00	1431.7
1/17/2020 7:00	1/17/2020 8:00	1524.4
1/17/2020 8:00	1/17/2020 9:00	1544.8
1/17/2020 9:00	1/17/2020 10:00	1582.7
1/17/2020 10:00	1/17/2020 11:00	1545.5
1/17/2020 11:00	1/17/2020 12:00	1567.0
1/17/2020 12:00	1/17/2020 13:00	1580.6
1/17/2020 13:00	1/17/2020 14:00	1552.1
1/17/2020 14:00	1/17/2020 15:00	1534.1
1/17/2020 15:00	1/17/2020 16:00	1560.9
1/17/2020 16:00	1/17/2020 17:00	1605.0
1/17/2020 17:00	1/17/2020 18:00	1720.2
1/17/2020 18:00	1/17/2020 19:00	1693.2
1/17/2020 19:00	1/17/2020 20:00	1644.7
1/17/2020 20:00	1/17/2020 21:00	1601.2
1/17/2020 21:00	1/17/2020 22:00	1534.2
1/17/2020 22:00	1/17/2020 23:00	1474.3
1/17/2020 23:00	1/18/2020 0:00	1475.3
1/18/2020 0:00	1/18/2020 1:00	1455.9
1/18/2020 1:00	1/18/2020 2:00	1440.3

Start Time	End Time	ANL_MW
1/18/2020 2:00	1/18/2020 3:00	1444.7
1/18/2020 3:00	1/18/2020 4:00	1440.4
1/18/2020 4:00	1/18/2020 5:00	1446.2
1/18/2020 5:00	1/18/2020 6:00	1483.9
1/18/2020 6:00	1/18/2020 7:00	1539.2
1/18/2020 7:00	1/18/2020 8:00	1620.9
1/18/2020 8:00	1/18/2020 9:00	1722.9
1/18/2020 9:00	1/18/2020 10:00	1775.6
1/18/2020 10:00	1/18/2020 11:00	1755.5
1/18/2020 11:00	1/18/2020 12:00	1716.3
1/18/2020 12:00	1/18/2020 13:00	1683.1
1/18/2020 13:00	1/18/2020 14:00	1623.8
1/18/2020 14:00	1/18/2020 15:00	1592.8
1/18/2020 15:00	1/18/2020 16:00	1615.2
1/18/2020 16:00	1/18/2020 17:00	1715.2
1/18/2020 17:00	1/18/2020 18:00	1848.5
1/18/2020 18:00	1/18/2020 19:00	1860.0
1/18/2020 19:00	1/18/2020 20:00	1840.8
1/18/2020 20:00	1/18/2020 21:00	1809.9
1/18/2020 21:00	1/18/2020 22:00	1773.2
1/18/2020 22:00	1/18/2020 23:00	1693.9
1/18/2020 23:00	1/19/2020 0:00	1618.0
1/19/2020 0:00	1/19/2020 1:00	1545.9
1/19/2020 1:00	1/19/2020 2:00	1480.8
1/19/2020 2:00	1/19/2020 3:00	1418.8
1/19/2020 3:00	1/19/2020 4:00	1379.3
1/19/2020 4:00	1/19/2020 5:00	1366.2
1/19/2020 5:00	1/19/2020 6:00	1350.2
1/19/2020 6:00	1/19/2020 7:00	1350.9
1/19/2020 7:00	1/19/2020 8:00	1364.3
1/19/2020 8:00	1/19/2020 9:00	1421.6
1/19/2020 9:00	1/19/2020 10:00	1484.2
1/19/2020 10:00	1/19/2020 11:00	1468.6
1/19/2020 11:00	1/19/2020 12:00	1436.8
1/19/2020 12:00	1/19/2020 13:00	1478.1
1/19/2020 13:00	1/19/2020 14:00	1469.6
1/19/2020 14:00	1/19/2020 15:00	1435.2
1/19/2020 15:00	1/19/2020 16:00	1438.0
1/19/2020 16:00	1/19/2020 17:00	1511.6
1/19/2020 17:00	1/19/2020 18:00	1568.8
1/19/2020 18:00	1/19/2020 19:00	1570.8
1/19/2020 19:00	1/19/2020 20:00	1554.2
1/19/2020 20:00	1/19/2020 21:00	1505.0
1/19/2020 21:00	1/19/2020 22:00	1429.7
1/19/2020 22:00	1/19/2020 23:00	1331.9
1/19/2020 23:00	1/20/2020 0:00	1258.3
1/20/2020 0:00	1/20/2020 1:00	1197.7
1/20/2020 1:00	1/20/2020 2:00	1180.5
1/20/2020 2:00	1/20/2020 3:00	1179.5
1/20/2020 3:00	1/20/2020 4:00	1185.7
1/20/2020 4:00	1/20/2020 5:00	1196.9
1/20/2020 5:00	1/20/2020 6:00	1254.4
1/20/2020 6:00	1/20/2020 7:00	1411.9
1/20/2020 7:00	1/20/2020 8:00	1533.5
1/20/2020 8:00	1/20/2020 9:00	1558.0
1/20/2020 9:00	1/20/2020 10:00	1554.8
1/20/2020 10:00	1/20/2020 11:00	1554.9
1/20/2020 11:00	1/20/2020 12:00	1551.7
1/20/2020 12:00	1/20/2020 13:00	1568.3
1/20/2020 13:00	1/20/2020 14:00	1578.1
1/20/2020 14:00	1/20/2020 15:00	1556.9
1/20/2020 15:00	1/20/2020 16:00	1545.5
1/20/2020 16:00	1/20/2020 17:00	1600.1
1/20/2020 17:00	1/20/2020 18:00	1675.3
1/20/2020 18:00	1/20/2020 19:00	1658.2
1/20/2020 19:00	1/20/2020 20:00	1642.0
1/20/2020 20:00	1/20/2020 21:00	1590.3
1/20/2020 21:00	1/20/2020 22:00	1468.3
1/20/2020 22:00	1/20/2020 23:00	1379.6
1/20/2020 23:00	1/21/2020 0:00	1373.9

Start Time	End Time	ANL_MW
1/21/2020 0:00	1/21/2020 1:00	1365.1
1/21/2020 1:00	1/21/2020 2:00	1354.7
1/21/2020 2:00	1/21/2020 3:00	1354.2
1/21/2020 3:00	1/21/2020 4:00	1330.3
1/21/2020 4:00	1/21/2020 5:00	1358.6
1/21/2020 5:00	1/21/2020 6:00	1440.2
1/21/2020 6:00	1/21/2020 7:00	1602.4
1/21/2020 7:00	1/21/2020 8:00	1745.7
1/21/2020 8:00	1/21/2020 9:00	1769.9
1/21/2020 9:00	1/21/2020 10:00	1725.8
1/21/2020 10:00	1/21/2020 11:00	1684.0
1/21/2020 11:00	1/21/2020 12:00	1662.4
1/21/2020 12:00	1/21/2020 13:00	1665.6
1/21/2020 13:00	1/21/2020 14:00	1631.9
1/21/2020 14:00	1/21/2020 15:00	1613.4
1/21/2020 15:00	1/21/2020 16:00	1650.5
1/21/2020 16:00	1/21/2020 17:00	1734.2
1/21/2020 17:00	1/21/2020 18:00	1877.6
1/21/2020 18:00	1/21/2020 19:00	1906.1
1/21/2020 19:00	1/21/2020 20:00	1902.0
1/21/2020 20:00	1/21/2020 21:00	1881.0
1/21/2020 21:00	1/21/2020 22:00	1813.9
1/21/2020 22:00	1/21/2020 23:00	1716.7
1/21/2020 23:00	1/22/2020 0:00	1684.6
1/22/2020 0:00	1/22/2020 1:00	1661.2
1/22/2020 1:00	1/22/2020 2:00	1628.5
1/22/2020 2:00	1/22/2020 3:00	1604.6
1/22/2020 3:00	1/22/2020 4:00	1602.9
1/22/2020 4:00	1/22/2020 5:00	1622.1
1/22/2020 5:00	1/22/2020 6:00	1694.5
1/22/2020 6:00	1/22/2020 7:00	1851.4
1/22/2020 7:00	1/22/2020 8:00	1951.9
1/22/2020 8:00	1/22/2020 9:00	1961.0
1/22/2020 9:00	1/22/2020 10:00	1882.1
1/22/2020 10:00	1/22/2020 11:00	1797.6
1/22/2020 11:00	1/22/2020 12:00	1752.0
1/22/2020 12:00	1/22/2020 13:00	1724.5
1/22/2020 13:00	1/22/2020 14:00	1653.7
1/22/2020 14:00	1/22/2020 15:00	1596.0
1/22/2020 15:00	1/22/2020 16:00	1605.0
1/22/2020 16:00	1/22/2020 17:00	1665.2
1/22/2020 17:00	1/22/2020 18:00	1769.0
1/22/2020 18:00	1/22/2020 19:00	1746.3
1/22/2020 19:00	1/22/2020 20:00	1705.1
1/22/2020 20:00	1/22/2020 21:00	1666.4
1/22/2020 21:00	1/22/2020 22:00	1576.7
1/22/2020 22:00	1/22/2020 23:00	1463.7
1/22/2020 23:00	1/23/2020 0:00	1404.7
1/23/2020 0:00	1/23/2020 1:00	1425.2
1/23/2020 1:00	1/23/2020 2:00	1414.5
1/23/2020 2:00	1/23/2020 3:00	1388.1
1/23/2020 3:00	1/23/2020 4:00	1353.8
1/23/2020 4:00	1/23/2020 5:00	1334.3
1/23/2020 5:00	1/23/2020 6:00	1370.9
1/23/2020 6:00	1/23/2020 7:00	1480.4
1/23/2020 7:00	1/23/2020 8:00	1574.0
1/23/2020 8:00	1/23/2020 9:00	1536.6
1/23/2020 9:00	1/23/2020 10:00	1497.0
1/23/2020 10:00	1/23/2020 11:00	1461.2
1/23/2020 11:00	1/23/2020 12:00	1415.6
1/23/2020 12:00	1/23/2020 13:00	1366.5
1/23/2020 13:00	1/23/2020 14:00	1307.0
1/23/2020 14:00	1/23/2020 15:00	1281.0
1/23/2020 15:00	1/23/2020 16:00	1264.8
1/23/2020 16:00	1/23/2020 17:00	1353.3
1/23/2020 17:00	1/23/2020 18:00	1452.7
1/23/2020 18:00	1/23/2020 19:00	1433.3
1/23/2020 19:00	1/23/2020 20:00	1369.6
1/23/2020 20:00	1/23/2020 21:00	1340.6
1/23/2020 21:00	1/23/2020 22:00	1319.5

Start Time	End Time	ANL_MW
1/23/2020 22:00	1/23/2020 23:00	1311.6
1/23/2020 23:00	1/24/2020 0:00	1325.1
1/24/2020 0:00	1/24/2020 1:00	1319.4
1/24/2020 1:00	1/24/2020 2:00	1296.1
1/24/2020 2:00	1/24/2020 3:00	1268.8
1/24/2020 3:00	1/24/2020 4:00	1273.9
1/24/2020 4:00	1/24/2020 5:00	1289.0
1/24/2020 5:00	1/24/2020 6:00	1348.9
1/24/2020 6:00	1/24/2020 7:00	1436.1
1/24/2020 7:00	1/24/2020 8:00	1565.5
1/24/2020 8:00	1/24/2020 9:00	1582.3
1/24/2020 9:00	1/24/2020 10:00	1587.0
1/24/2020 10:00	1/24/2020 11:00	1475.5
1/24/2020 11:00	1/24/2020 12:00	1453.9
1/24/2020 12:00	1/24/2020 13:00	1436.4
1/24/2020 13:00	1/24/2020 14:00	1392.8
1/24/2020 14:00	1/24/2020 15:00	1363.3
1/24/2020 15:00	1/24/2020 16:00	1365.0
1/24/2020 16:00	1/24/2020 17:00	1413.0
1/24/2020 17:00	1/24/2020 18:00	1566.0
1/24/2020 18:00	1/24/2020 19:00	1584.8
1/24/2020 19:00	1/24/2020 20:00	1571.8
1/24/2020 20:00	1/24/2020 21:00	1548.4
1/24/2020 21:00	1/24/2020 22:00	1497.6
1/24/2020 22:00	1/24/2020 23:00	1424.3
1/24/2020 23:00	1/25/2020 0:00	1414.9
1/25/2020 0:00	1/25/2020 1:00	1404.3
1/25/2020 1:00	1/25/2020 2:00	1383.6
1/25/2020 2:00	1/25/2020 3:00	1355.2
1/25/2020 3:00	1/25/2020 4:00	1346.1
1/25/2020 4:00	1/25/2020 5:00	1360.4
1/25/2020 5:00	1/25/2020 6:00	1392.5
1/25/2020 6:00	1/25/2020 7:00	1461.6
1/25/2020 7:00	1/25/2020 8:00	1555.9
1/25/2020 8:00	1/25/2020 9:00	1640.8
1/25/2020 9:00	1/25/2020 10:00	1663.2
1/25/2020 10:00	1/25/2020 11:00	1654.8
1/25/2020 11:00	1/25/2020 12:00	1634.9
1/25/2020 12:00	1/25/2020 13:00	1580.8
1/25/2020 13:00	1/25/2020 14:00	1515.2
1/25/2020 14:00	1/25/2020 15:00	1465.5
1/25/2020 15:00	1/25/2020 16:00	1479.5
1/25/2020 16:00	1/25/2020 17:00	1539.8
1/25/2020 17:00	1/25/2020 18:00	1600.1
1/25/2020 18:00	1/25/2020 19:00	1551.4
1/25/2020 19:00	1/25/2020 20:00	1471.3
1/25/2020 20:00	1/25/2020 21:00	1421.1
1/25/2020 21:00	1/25/2020 22:00	1371.3
1/25/2020 22:00	1/25/2020 23:00	1292.2
1/25/2020 23:00	1/26/2020 0:00	1243.5
1/26/2020 0:00	1/26/2020 1:00	1196.2
1/26/2020 1:00	1/26/2020 2:00	1159.0
1/26/2020 2:00	1/26/2020 3:00	1141.4
1/26/2020 3:00	1/26/2020 4:00	1118.1
1/26/2020 4:00	1/26/2020 5:00	1092.1
1/26/2020 5:00	1/26/2020 6:00	1076.4
1/26/2020 6:00	1/26/2020 7:00	1063.5
1/26/2020 7:00	1/26/2020 8:00	1085.5
1/26/2020 8:00	1/26/2020 9:00	1149.6
1/26/2020 9:00	1/26/2020 10:00	1154.5
1/26/2020 10:00	1/26/2020 11:00	1164.1
1/26/2020 11:00	1/26/2020 12:00	1139.4
1/26/2020 12:00	1/26/2020 13:00	1192.0
1/26/2020 13:00	1/26/2020 14:00	1139.3
1/26/2020 14:00	1/26/2020 15:00	1097.5
1/26/2020 15:00	1/26/2020 16:00	1080.5
1/26/2020 16:00	1/26/2020 17:00	1130.8
1/26/2020 17:00	1/26/2020 18:00	1206.0
1/26/2020 18:00	1/26/2020 19:00	1215.2
1/26/2020 19:00	1/26/2020 20:00	1175.6

Start Time	End Time	ANL_MW
1/26/2020 20:00	1/26/2020 21:00	1102.0
1/26/2020 21:00	1/26/2020 22:00	1090.6
1/26/2020 22:00	1/26/2020 23:00	1047.6
1/26/2020 23:00	1/27/2020 0:00	1022.1
1/27/2020 0:00	1/27/2020 1:00	956.7
1/27/2020 1:00	1/27/2020 2:00	916.9
1/27/2020 2:00	1/27/2020 3:00	921.9
1/27/2020 3:00	1/27/2020 4:00	914.3
1/27/2020 4:00	1/27/2020 5:00	937.5
1/27/2020 5:00	1/27/2020 6:00	1008.6
1/27/2020 6:00	1/27/2020 7:00	1153.8
1/27/2020 7:00	1/27/2020 8:00	1216.9
1/27/2020 8:00	1/27/2020 9:00	1250.6
1/27/2020 9:00	1/27/2020 10:00	1297.8
1/27/2020 10:00	1/27/2020 11:00	1263.5
1/27/2020 11:00	1/27/2020 12:00	1226.8
1/27/2020 12:00	1/27/2020 13:00	1198.2
1/27/2020 13:00	1/27/2020 14:00	1217.1
1/27/2020 14:00	1/27/2020 15:00	1214.5
1/27/2020 15:00	1/27/2020 16:00	1261.2
1/27/2020 16:00	1/27/2020 17:00	1347.1
1/27/2020 17:00	1/27/2020 18:00	1453.5
1/27/2020 18:00	1/27/2020 19:00	1455.4
1/27/2020 19:00	1/27/2020 20:00	1441.1
1/27/2020 20:00	1/27/2020 21:00	1408.0
1/27/2020 21:00	1/27/2020 22:00	1372.6
1/27/2020 22:00	1/27/2020 23:00	1304.4
1/27/2020 23:00	1/28/2020 0:00	1311.7
1/28/2020 0:00	1/28/2020 1:00	1302.6
1/28/2020 1:00	1/28/2020 2:00	1278.9
1/28/2020 2:00	1/28/2020 3:00	1229.1
1/28/2020 3:00	1/28/2020 4:00	1180.5
1/28/2020 4:00	1/28/2020 5:00	1111.4
1/28/2020 5:00	1/28/2020 6:00	1167.9
1/28/2020 6:00	1/28/2020 7:00	1325.4
1/28/2020 7:00	1/28/2020 8:00	1408.8
1/28/2020 8:00	1/28/2020 9:00	1471.9
1/28/2020 9:00	1/28/2020 10:00	1450.7
1/28/2020 10:00	1/28/2020 11:00	1452.8
1/28/2020 11:00	1/28/2020 12:00	1414.4
1/28/2020 12:00	1/28/2020 13:00	1412.4
1/28/2020 13:00	1/28/2020 14:00	1417.9
1/28/2020 14:00	1/28/2020 15:00	1428.2
1/28/2020 15:00	1/28/2020 16:00	1435.0
1/28/2020 16:00	1/28/2020 17:00	1482.1
1/28/2020 17:00	1/28/2020 18:00	1531.6
1/28/2020 18:00	1/28/2020 19:00	1502.5
1/28/2020 19:00	1/28/2020 20:00	1480.8
1/28/2020 20:00	1/28/2020 21:00	1456.9
1/28/2020 21:00	1/28/2020 22:00	1399.1
1/28/2020 22:00	1/28/2020 23:00	1288.7
1/28/2020 23:00	1/29/2020 0:00	1232.5
1/29/2020 0:00	1/29/2020 1:00	1207.4
1/29/2020 1:00	1/29/2020 2:00	1187.3
1/29/2020 2:00	1/29/2020 3:00	1168.8
1/29/2020 3:00	1/29/2020 4:00	1165.8
1/29/2020 4:00	1/29/2020 5:00	1195.5
1/29/2020 5:00	1/29/2020 6:00	1274.0
1/29/2020 6:00	1/29/2020 7:00	1399.4
1/29/2020 7:00	1/29/2020 8:00	1498.7
1/29/2020 8:00	1/29/2020 9:00	1523.8
1/29/2020 9:00	1/29/2020 10:00	1524.7
1/29/2020 10:00	1/29/2020 11:00	1495.6
1/29/2020 11:00	1/29/2020 12:00	1453.2
1/29/2020 12:00	1/29/2020 13:00	1399.6
1/29/2020 13:00	1/29/2020 14:00	1338.3
1/29/2020 14:00	1/29/2020 15:00	1274.9
1/29/2020 15:00	1/29/2020 16:00	1280.6
1/29/2020 16:00	1/29/2020 17:00	1385.5
1/29/2020 17:00	1/29/2020 18:00	1466.7

Start Time	End Time	ANL_MW
1/29/2020 18:00	1/29/2020 19:00	1494.3
1/29/2020 19:00	1/29/2020 20:00	1494.6
1/29/2020 20:00	1/29/2020 21:00	1474.2
1/29/2020 21:00	1/29/2020 22:00	1391.7
1/29/2020 22:00	1/29/2020 23:00	1301.9
1/29/2020 23:00	1/30/2020 0:00	1298.4
1/30/2020 0:00	1/30/2020 1:00	1332.5
1/30/2020 1:00	1/30/2020 2:00	1312.4
1/30/2020 2:00	1/30/2020 3:00	1235.0
1/30/2020 3:00	1/30/2020 4:00	1221.4
1/30/2020 4:00	1/30/2020 5:00	1218.5
1/30/2020 5:00	1/30/2020 6:00	1279.3
1/30/2020 6:00	1/30/2020 7:00	1417.0
1/30/2020 7:00	1/30/2020 8:00	1406.4
1/30/2020 8:00	1/30/2020 9:00	1415.8
1/30/2020 9:00	1/30/2020 10:00	1424.3
1/30/2020 10:00	1/30/2020 11:00	1442.5
1/30/2020 11:00	1/30/2020 12:00	1420.3
1/30/2020 12:00	1/30/2020 13:00	1410.3
1/30/2020 13:00	1/30/2020 14:00	1413.6
1/30/2020 14:00	1/30/2020 15:00	1388.2
1/30/2020 15:00	1/30/2020 16:00	1412.1
1/30/2020 16:00	1/30/2020 17:00	1478.1
1/30/2020 17:00	1/30/2020 18:00	1597.8
1/30/2020 18:00	1/30/2020 19:00	1643.6
1/30/2020 19:00	1/30/2020 20:00	1635.7
1/30/2020 20:00	1/30/2020 21:00	1610.0
1/30/2020 21:00	1/30/2020 22:00	1533.2
1/30/2020 22:00	1/30/2020 23:00	1421.4
1/30/2020 23:00	1/31/2020 0:00	1412.4
1/31/2020 0:00	1/31/2020 1:00	1402.0
1/31/2020 1:00	1/31/2020 2:00	1395.5
1/31/2020 2:00	1/31/2020 3:00	1353.7
1/31/2020 3:00	1/31/2020 4:00	1345.2
1/31/2020 4:00	1/31/2020 5:00	1298.8
1/31/2020 5:00	1/31/2020 6:00	1297.3
1/31/2020 6:00	1/31/2020 7:00	1442.3
1/31/2020 7:00	1/31/2020 8:00	1528.4
1/31/2020 8:00	1/31/2020 9:00	1512.2
1/31/2020 9:00	1/31/2020 10:00	1499.7
1/31/2020 10:00	1/31/2020 11:00	1468.3
1/31/2020 11:00	1/31/2020 12:00	1356.5
1/31/2020 12:00	1/31/2020 13:00	1285.3
1/31/2020 13:00	1/31/2020 14:00	1225.4
1/31/2020 14:00	1/31/2020 15:00	1196.2
1/31/2020 15:00	1/31/2020 16:00	1229.2
1/31/2020 16:00	1/31/2020 17:00	1302.6
1/31/2020 17:00	1/31/2020 18:00	1453.0
1/31/2020 18:00	1/31/2020 19:00	1476.4
1/31/2020 19:00	1/31/2020 20:00	1437.6
1/31/2020 20:00	1/31/2020 21:00	1415.7
1/31/2020 21:00	1/31/2020 22:00	1420.1
1/31/2020 22:00	1/31/2020 23:00	1372.9
1/31/2020 23:00	2/1/2020 0:00	1404.8
2/1/2020 0:00	2/1/2020 1:00	1420.7
2/1/2020 1:00	2/1/2020 2:00	1422.6
2/1/2020 2:00	2/1/2020 3:00	1397.9
2/1/2020 3:00	2/1/2020 4:00	1399.2
2/1/2020 4:00	2/1/2020 5:00	1464.7
2/1/2020 5:00	2/1/2020 6:00	1502.6
2/1/2020 6:00	2/1/2020 7:00	1541.8
2/1/2020 7:00	2/1/2020 8:00	1574.0
2/1/2020 8:00	2/1/2020 9:00	1611.3
2/1/2020 9:00	2/1/2020 10:00	1593.7
2/1/2020 10:00	2/1/2020 11:00	1607.7
2/1/2020 11:00	2/1/2020 12:00	1573.5
2/1/2020 12:00	2/1/2020 13:00	1563.8
2/1/2020 13:00	2/1/2020 14:00	1545.8
2/1/2020 14:00	2/1/2020 15:00	1508.0
2/1/2020 15:00	2/1/2020 16:00	1510.2

Start Time	End Time	ANL_MW
2/1/2020 16:00	2/1/2020 17:00	1552.5
2/1/2020 17:00	2/1/2020 18:00	1566.2
2/1/2020 18:00	2/1/2020 19:00	1537.3
2/1/2020 19:00	2/1/2020 20:00	1520.2
2/1/2020 20:00	2/1/2020 21:00	1447.2
2/1/2020 21:00	2/1/2020 22:00	1380.4
2/1/2020 22:00	2/1/2020 23:00	1284.3
2/1/2020 23:00	2/2/2020 0:00	1247.2
2/2/2020 0:00	2/2/2020 1:00	1151.0
2/2/2020 1:00	2/2/2020 2:00	1100.3
2/2/2020 2:00	2/2/2020 3:00	1007.7
2/2/2020 3:00	2/2/2020 4:00	981.9
2/2/2020 4:00	2/2/2020 5:00	947.6
2/2/2020 5:00	2/2/2020 6:00	961.7
2/2/2020 6:00	2/2/2020 7:00	1023.0
2/2/2020 7:00	2/2/2020 8:00	1098.8
2/2/2020 8:00	2/2/2020 9:00	1194.3
2/2/2020 9:00	2/2/2020 10:00	1267.4
2/2/2020 10:00	2/2/2020 11:00	1311.6
2/2/2020 11:00	2/2/2020 12:00	1337.9
2/2/2020 12:00	2/2/2020 13:00	1378.9
2/2/2020 13:00	2/2/2020 14:00	1347.9
2/2/2020 14:00	2/2/2020 15:00	1261.3
2/2/2020 15:00	2/2/2020 16:00	1281.1
2/2/2020 16:00	2/2/2020 17:00	1334.8
2/2/2020 17:00	2/2/2020 18:00	1422.0
2/2/2020 18:00	2/2/2020 19:00	1437.9
2/2/2020 19:00	2/2/2020 20:00	1443.1
2/2/2020 20:00	2/2/2020 21:00	1389.4
2/2/2020 21:00	2/2/2020 22:00	1308.5
2/2/2020 22:00	2/2/2020 23:00	1258.3
2/2/2020 23:00	2/3/2020 0:00	1265.1
2/3/2020 0:00	2/3/2020 1:00	1224.7
2/3/2020 1:00	2/3/2020 2:00	1183.9
2/3/2020 2:00	2/3/2020 3:00	1129.7
2/3/2020 3:00	2/3/2020 4:00	1129.9
2/3/2020 4:00	2/3/2020 5:00	1177.9
2/3/2020 5:00	2/3/2020 6:00	1203.0
2/3/2020 6:00	2/3/2020 7:00	1304.1
2/3/2020 7:00	2/3/2020 8:00	1400.4
2/3/2020 8:00	2/3/2020 9:00	1391.5
2/3/2020 9:00	2/3/2020 10:00	1364.8
2/3/2020 10:00	2/3/2020 11:00	1276.8
2/3/2020 11:00	2/3/2020 12:00	1184.5
2/3/2020 12:00	2/3/2020 13:00	1171.8
2/3/2020 13:00	2/3/2020 14:00	1104.1
2/3/2020 14:00	2/3/2020 15:00	1095.3
2/3/2020 15:00	2/3/2020 16:00	1096.8
2/3/2020 16:00	2/3/2020 17:00	1174.9
2/3/2020 17:00	2/3/2020 18:00	1325.5
2/3/2020 18:00	2/3/2020 19:00	1347.4
2/3/2020 19:00	2/3/2020 20:00	1264.0
2/3/2020 20:00	2/3/2020 21:00	1184.3
2/3/2020 21:00	2/3/2020 22:00	1096.6
2/3/2020 22:00	2/3/2020 23:00	1036.0
2/3/2020 23:00	2/4/2020 0:00	1030.6
2/4/2020 0:00	2/4/2020 1:00	1031.8
2/4/2020 1:00	2/4/2020 2:00	1012.8
2/4/2020 2:00	2/4/2020 3:00	970.8
2/4/2020 3:00	2/4/2020 4:00	1014.9
2/4/2020 4:00	2/4/2020 5:00	1004.6
2/4/2020 5:00	2/4/2020 6:00	1080.3
2/4/2020 6:00	2/4/2020 7:00	1187.3
2/4/2020 7:00	2/4/2020 8:00	1311.4
2/4/2020 8:00	2/4/2020 9:00	1381.6
2/4/2020 9:00	2/4/2020 10:00	1360.0
2/4/2020 10:00	2/4/2020 11:00	1325.8
2/4/2020 11:00	2/4/2020 12:00	1303.7
2/4/2020 12:00	2/4/2020 13:00	1291.3
2/4/2020 13:00	2/4/2020 14:00	1279.8

Start Time	End Time	ANL_MW
2/4/2020 14:00	2/4/2020 15:00	1277.0
2/4/2020 15:00	2/4/2020 16:00	1357.8
2/4/2020 16:00	2/4/2020 17:00	1454.8
2/4/2020 17:00	2/4/2020 18:00	1531.1
2/4/2020 18:00	2/4/2020 19:00	1508.1
2/4/2020 19:00	2/4/2020 20:00	1469.3
2/4/2020 20:00	2/4/2020 21:00	1415.0
2/4/2020 21:00	2/4/2020 22:00	1342.9
2/4/2020 22:00	2/4/2020 23:00	1250.3
2/4/2020 23:00	2/5/2020 0:00	1262.5
2/5/2020 0:00	2/5/2020 1:00	1236.0
2/5/2020 1:00	2/5/2020 2:00	1176.4
2/5/2020 2:00	2/5/2020 3:00	1145.1
2/5/2020 3:00	2/5/2020 4:00	1097.8
2/5/2020 4:00	2/5/2020 5:00	1088.3
2/5/2020 5:00	2/5/2020 6:00	1157.5
2/5/2020 6:00	2/5/2020 7:00	1240.6
2/5/2020 7:00	2/5/2020 8:00	1301.7
2/5/2020 8:00	2/5/2020 9:00	1282.6
2/5/2020 9:00	2/5/2020 10:00	1265.2
2/5/2020 10:00	2/5/2020 11:00	1213.9
2/5/2020 11:00	2/5/2020 12:00	1102.0
2/5/2020 12:00	2/5/2020 13:00	1116.7
2/5/2020 13:00	2/5/2020 14:00	1105.9
2/5/2020 14:00	2/5/2020 15:00	1133.1
2/5/2020 15:00	2/5/2020 16:00	1179.7
2/5/2020 16:00	2/5/2020 17:00	1258.0
2/5/2020 17:00	2/5/2020 18:00	1327.0
2/5/2020 18:00	2/5/2020 19:00	1407.6
2/5/2020 19:00	2/5/2020 20:00	1400.9
2/5/2020 20:00	2/5/2020 21:00	1435.9
2/5/2020 21:00	2/5/2020 22:00	1424.5
2/5/2020 22:00	2/5/2020 23:00	1412.2
2/5/2020 23:00	2/6/2020 0:00	1424.0
2/6/2020 0:00	2/6/2020 1:00	1453.1
2/6/2020 1:00	2/6/2020 2:00	1449.2
2/6/2020 2:00	2/6/2020 3:00	1472.6
2/6/2020 3:00	2/6/2020 4:00	1491.6
2/6/2020 4:00	2/6/2020 5:00	1463.1
2/6/2020 5:00	2/6/2020 6:00	1510.6
2/6/2020 6:00	2/6/2020 7:00	1628.1
2/6/2020 7:00	2/6/2020 8:00	1715.3
2/6/2020 8:00	2/6/2020 9:00	1712.9
2/6/2020 9:00	2/6/2020 10:00	1682.0
2/6/2020 10:00	2/6/2020 11:00	1662.7
2/6/2020 11:00	2/6/2020 12:00	1630.0
2/6/2020 12:00	2/6/2020 13:00	1640.1
2/6/2020 13:00	2/6/2020 14:00	1627.9
2/6/2020 14:00	2/6/2020 15:00	1624.9
2/6/2020 15:00	2/6/2020 16:00	1661.1
2/6/2020 16:00	2/6/2020 17:00	1686.9
2/6/2020 17:00	2/6/2020 18:00	1755.6
2/6/2020 18:00	2/6/2020 19:00	1740.1
2/6/2020 19:00	2/6/2020 20:00	1668.4
2/6/2020 20:00	2/6/2020 21:00	1601.5
2/6/2020 21:00	2/6/2020 22:00	1556.4
2/6/2020 22:00	2/6/2020 23:00	1525.8
2/6/2020 23:00	2/7/2020 0:00	1520.0
2/7/2020 0:00	2/7/2020 1:00	1500.8
2/7/2020 1:00	2/7/2020 2:00	1463.4
2/7/2020 2:00	2/7/2020 3:00	1427.1
2/7/2020 3:00	2/7/2020 4:00	1411.1
2/7/2020 4:00	2/7/2020 5:00	1415.0
2/7/2020 5:00	2/7/2020 6:00	1455.0
2/7/2020 6:00	2/7/2020 7:00	1509.5
2/7/2020 7:00	2/7/2020 8:00	1565.5
2/7/2020 8:00	2/7/2020 9:00	1582.3
2/7/2020 9:00	2/7/2020 10:00	1616.1
2/7/2020 10:00	2/7/2020 11:00	1623.5
2/7/2020 11:00	2/7/2020 12:00	1630.1

Start Time	End Time	ANL_MW
2/7/2020 12:00	2/7/2020 13:00	1694.5
2/7/2020 13:00	2/7/2020 14:00	1682.6
2/7/2020 14:00	2/7/2020 15:00	1620.6
2/7/2020 15:00	2/7/2020 16:00	1602.0
2/7/2020 16:00	2/7/2020 17:00	1590.4
2/7/2020 17:00	2/7/2020 18:00	1476.8
2/7/2020 18:00	2/7/2020 19:00	1330.3
2/7/2020 19:00	2/7/2020 20:00	1223.2
2/7/2020 20:00	2/7/2020 21:00	1187.4
2/7/2020 21:00	2/7/2020 22:00	1203.0
2/7/2020 22:00	2/7/2020 23:00	1080.8
2/7/2020 23:00	2/8/2020 0:00	1050.7
2/8/2020 0:00	2/8/2020 1:00	1025.6
2/8/2020 1:00	2/8/2020 2:00	1007.0
2/8/2020 2:00	2/8/2020 3:00	935.4
2/8/2020 3:00	2/8/2020 4:00	884.7
2/8/2020 4:00	2/8/2020 5:00	903.4
2/8/2020 5:00	2/8/2020 6:00	939.8
2/8/2020 6:00	2/8/2020 7:00	1063.0
2/8/2020 7:00	2/8/2020 8:00	1178.4
2/8/2020 8:00	2/8/2020 9:00	1275.3
2/8/2020 9:00	2/8/2020 10:00	1290.0
2/8/2020 10:00	2/8/2020 11:00	1312.3
2/8/2020 11:00	2/8/2020 12:00	1343.9
2/8/2020 12:00	2/8/2020 13:00	1333.7
2/8/2020 13:00	2/8/2020 14:00	1339.6
2/8/2020 14:00	2/8/2020 15:00	1322.6
2/8/2020 15:00	2/8/2020 16:00	1342.0
2/8/2020 16:00	2/8/2020 17:00	1380.3
2/8/2020 17:00	2/8/2020 18:00	1524.9
2/8/2020 18:00	2/8/2020 19:00	1585.1
2/8/2020 19:00	2/8/2020 20:00	1550.5
2/8/2020 20:00	2/8/2020 21:00	1453.8
2/8/2020 21:00	2/8/2020 22:00	1366.0
2/8/2020 22:00	2/8/2020 23:00	1336.0
2/8/2020 23:00	2/9/2020 0:00	1284.1
2/9/2020 0:00	2/9/2020 1:00	1219.6
2/9/2020 1:00	2/9/2020 2:00	1201.8
2/9/2020 2:00	2/9/2020 3:00	1237.5
2/9/2020 3:00	2/9/2020 4:00	1299.2
2/9/2020 4:00	2/9/2020 5:00	1333.1
2/9/2020 5:00	2/9/2020 6:00	1332.0
2/9/2020 6:00	2/9/2020 7:00	1419.0
2/9/2020 7:00	2/9/2020 8:00	1502.9
2/9/2020 8:00	2/9/2020 9:00	1599.4
2/9/2020 9:00	2/9/2020 10:00	1660.2
2/9/2020 10:00	2/9/2020 11:00	1592.4
2/9/2020 11:00	2/9/2020 12:00	1578.6
2/9/2020 12:00	2/9/2020 13:00	1541.9
2/9/2020 13:00	2/9/2020 14:00	1496.3
2/9/2020 14:00	2/9/2020 15:00	1458.0
2/9/2020 15:00	2/9/2020 16:00	1441.0
2/9/2020 16:00	2/9/2020 17:00	1507.1
2/9/2020 17:00	2/9/2020 18:00	1596.9
2/9/2020 18:00	2/9/2020 19:00	1629.7
2/9/2020 19:00	2/9/2020 20:00	1612.9
2/9/2020 20:00	2/9/2020 21:00	1553.1
2/9/2020 21:00	2/9/2020 22:00	1432.4
2/9/2020 22:00	2/9/2020 23:00	1322.7
2/9/2020 23:00	2/10/2020 0:00	1265.4
2/10/2020 0:00	2/10/2020 1:00	1232.1
2/10/2020 1:00	2/10/2020 2:00	1225.5
2/10/2020 2:00	2/10/2020 3:00	1227.0
2/10/2020 3:00	2/10/2020 4:00	1207.8
2/10/2020 4:00	2/10/2020 5:00	1194.5
2/10/2020 5:00	2/10/2020 6:00	1225.7
2/10/2020 6:00	2/10/2020 7:00	1258.5
2/10/2020 7:00	2/10/2020 8:00	1317.8
2/10/2020 8:00	2/10/2020 9:00	1313.2
2/10/2020 9:00	2/10/2020 10:00	1290.4

Start Time	End Time	ANL_MW
2/10/2020 10:00	2/10/2020 11:00	1271.3
2/10/2020 11:00	2/10/2020 12:00	1261.2
2/10/2020 12:00	2/10/2020 13:00	1252.4
2/10/2020 13:00	2/10/2020 14:00	1236.9
2/10/2020 14:00	2/10/2020 15:00	1268.0
2/10/2020 15:00	2/10/2020 16:00	1287.3
2/10/2020 16:00	2/10/2020 17:00	1305.4
2/10/2020 17:00	2/10/2020 18:00	1317.2
2/10/2020 18:00	2/10/2020 19:00	1324.3
2/10/2020 19:00	2/10/2020 20:00	1344.1
2/10/2020 20:00	2/10/2020 21:00	1360.3
2/10/2020 21:00	2/10/2020 22:00	1312.0
2/10/2020 22:00	2/10/2020 23:00	1198.1
2/10/2020 23:00	2/11/2020 0:00	1127.2
2/11/2020 0:00	2/11/2020 1:00	1094.9
2/11/2020 1:00	2/11/2020 2:00	1081.3
2/11/2020 2:00	2/11/2020 3:00	1110.3
2/11/2020 3:00	2/11/2020 4:00	1152.4
2/11/2020 4:00	2/11/2020 5:00	1218.6
2/11/2020 5:00	2/11/2020 6:00	1296.2
2/11/2020 6:00	2/11/2020 7:00	1396.7
2/11/2020 7:00	2/11/2020 8:00	1487.8
2/11/2020 8:00	2/11/2020 9:00	1523.5
2/11/2020 9:00	2/11/2020 10:00	1514.3
2/11/2020 10:00	2/11/2020 11:00	1480.3
2/11/2020 11:00	2/11/2020 12:00	1449.9
2/11/2020 12:00	2/11/2020 13:00	1413.4
2/11/2020 13:00	2/11/2020 14:00	1380.8
2/11/2020 14:00	2/11/2020 15:00	1352.1
2/11/2020 15:00	2/11/2020 16:00	1371.0
2/11/2020 16:00	2/11/2020 17:00	1433.1
2/11/2020 17:00	2/11/2020 18:00	1482.4
2/11/2020 18:00	2/11/2020 19:00	1512.3
2/11/2020 19:00	2/11/2020 20:00	1460.5
2/11/2020 20:00	2/11/2020 21:00	1408.9
2/11/2020 21:00	2/11/2020 22:00	1337.0
2/11/2020 22:00	2/11/2020 23:00	1252.3
2/11/2020 23:00	2/12/2020 0:00	1247.7
2/12/2020 0:00	2/12/2020 1:00	1238.5
2/12/2020 1:00	2/12/2020 2:00	1233.6
2/12/2020 2:00	2/12/2020 3:00	1305.1
2/12/2020 3:00	2/12/2020 4:00	1313.0
2/12/2020 4:00	2/12/2020 5:00	1282.4
2/12/2020 5:00	2/12/2020 6:00	1245.0
2/12/2020 6:00	2/12/2020 7:00	1242.0
2/12/2020 7:00	2/12/2020 8:00	1235.9
2/12/2020 8:00	2/12/2020 9:00	1183.2
2/12/2020 9:00	2/12/2020 10:00	1191.3
2/12/2020 10:00	2/12/2020 11:00	1182.6
2/12/2020 11:00	2/12/2020 12:00	1164.5
2/12/2020 12:00	2/12/2020 13:00	1161.4
2/12/2020 13:00	2/12/2020 14:00	1138.2
2/12/2020 14:00	2/12/2020 15:00	1128.9
2/12/2020 15:00	2/12/2020 16:00	1135.6
2/12/2020 16:00	2/12/2020 17:00	1285.1
2/12/2020 17:00	2/12/2020 18:00	1464.8
2/12/2020 18:00	2/12/2020 19:00	1527.5
2/12/2020 19:00	2/12/2020 20:00	1522.3
2/12/2020 20:00	2/12/2020 21:00	1453.2
2/12/2020 21:00	2/12/2020 22:00	1313.5
2/12/2020 22:00	2/12/2020 23:00	1177.5
2/12/2020 23:00	2/13/2020 0:00	1169.9
2/13/2020 0:00	2/13/2020 1:00	1147.0
2/13/2020 1:00	2/13/2020 2:00	1083.2
2/13/2020 2:00	2/13/2020 3:00	1023.2
2/13/2020 3:00	2/13/2020 4:00	1004.7
2/13/2020 4:00	2/13/2020 5:00	997.7
2/13/2020 5:00	2/13/2020 6:00	1041.8
2/13/2020 6:00	2/13/2020 7:00	1194.8
2/13/2020 7:00	2/13/2020 8:00	1273.3

Start Time	End Time	ANL_MW
2/13/2020 8:00	2/13/2020 9:00	1314.1
2/13/2020 9:00	2/13/2020 10:00	1361.6
2/13/2020 10:00	2/13/2020 11:00	1443.0
2/13/2020 11:00	2/13/2020 12:00	1505.3
2/13/2020 12:00	2/13/2020 13:00	1585.5
2/13/2020 13:00	2/13/2020 14:00	1622.9
2/13/2020 14:00	2/13/2020 15:00	1618.8
2/13/2020 15:00	2/13/2020 16:00	1632.5
2/13/2020 16:00	2/13/2020 17:00	1650.8
2/13/2020 17:00	2/13/2020 18:00	1683.3
2/13/2020 18:00	2/13/2020 19:00	1662.6
2/13/2020 19:00	2/13/2020 20:00	1593.2
2/13/2020 20:00	2/13/2020 21:00	1535.5
2/13/2020 21:00	2/13/2020 22:00	1465.3
2/13/2020 22:00	2/13/2020 23:00	1357.0
2/13/2020 23:00	2/14/2020 0:00	1307.4
2/14/2020 0:00	2/14/2020 1:00	1290.8
2/14/2020 1:00	2/14/2020 2:00	1274.8
2/14/2020 2:00	2/14/2020 3:00	1224.3
2/14/2020 3:00	2/14/2020 4:00	1219.4
2/14/2020 4:00	2/14/2020 5:00	1234.5
2/14/2020 5:00	2/14/2020 6:00	1281.1
2/14/2020 6:00	2/14/2020 7:00	1321.7
2/14/2020 7:00	2/14/2020 8:00	1423.7
2/14/2020 8:00	2/14/2020 9:00	1424.7
2/14/2020 9:00	2/14/2020 10:00	1383.0
2/14/2020 10:00	2/14/2020 11:00	1339.7
2/14/2020 11:00	2/14/2020 12:00	1298.6
2/14/2020 12:00	2/14/2020 13:00	1265.1
2/14/2020 13:00	2/14/2020 14:00	1233.2
2/14/2020 14:00	2/14/2020 15:00	1213.9
2/14/2020 15:00	2/14/2020 16:00	1233.2
2/14/2020 16:00	2/14/2020 17:00	1318.1
2/14/2020 17:00	2/14/2020 18:00	1442.5
2/14/2020 18:00	2/14/2020 19:00	1523.1
2/14/2020 19:00	2/14/2020 20:00	1472.9
2/14/2020 20:00	2/14/2020 21:00	1444.5
2/14/2020 21:00	2/14/2020 22:00	1406.9
2/14/2020 22:00	2/14/2020 23:00	1323.5
2/14/2020 23:00	2/15/2020 0:00	1353.9
2/15/2020 0:00	2/15/2020 1:00	1381.9
2/15/2020 1:00	2/15/2020 2:00	1403.2
2/15/2020 2:00	2/15/2020 3:00	1426.0
2/15/2020 3:00	2/15/2020 4:00	1447.4
2/15/2020 4:00	2/15/2020 5:00	1524.4
2/15/2020 5:00	2/15/2020 6:00	1602.3
2/15/2020 6:00	2/15/2020 7:00	1695.7
2/15/2020 7:00	2/15/2020 8:00	1814.7
2/15/2020 8:00	2/15/2020 9:00	1865.7
2/15/2020 9:00	2/15/2020 10:00	1828.6
2/15/2020 10:00	2/15/2020 11:00	1783.0
2/15/2020 11:00	2/15/2020 12:00	1709.6
2/15/2020 12:00	2/15/2020 13:00	1646.2
2/15/2020 13:00	2/15/2020 14:00	1533.5
2/15/2020 14:00	2/15/2020 15:00	1428.5
2/15/2020 15:00	2/15/2020 16:00	1432.4
2/15/2020 16:00	2/15/2020 17:00	1499.5
2/15/2020 17:00	2/15/2020 18:00	1610.7
2/15/2020 18:00	2/15/2020 19:00	1619.0
2/15/2020 19:00	2/15/2020 20:00	1546.3
2/15/2020 20:00	2/15/2020 21:00	1432.9
2/15/2020 21:00	2/15/2020 22:00	1349.9
2/15/2020 22:00	2/15/2020 23:00	1262.4
2/15/2020 23:00	2/16/2020 0:00	1174.0
2/16/2020 0:00	2/16/2020 1:00	1166.2
2/16/2020 1:00	2/16/2020 2:00	1124.0
2/16/2020 2:00	2/16/2020 3:00	1112.3
2/16/2020 3:00	2/16/2020 4:00	1096.9
2/16/2020 4:00	2/16/2020 5:00	1087.9
2/16/2020 5:00	2/16/2020 6:00	1068.9

Start Time	End Time	ANL_MW
2/16/2020 6:00	2/16/2020 7:00	1104.0
2/16/2020 7:00	2/16/2020 8:00	1134.9
2/16/2020 8:00	2/16/2020 9:00	1186.2
2/16/2020 9:00	2/16/2020 10:00	1252.9
2/16/2020 10:00	2/16/2020 11:00	1256.0
2/16/2020 11:00	2/16/2020 12:00	1243.1
2/16/2020 12:00	2/16/2020 13:00	1251.4
2/16/2020 13:00	2/16/2020 14:00	1258.6
2/16/2020 14:00	2/16/2020 15:00	1264.1
2/16/2020 15:00	2/16/2020 16:00	1284.9
2/16/2020 16:00	2/16/2020 17:00	1370.6
2/16/2020 17:00	2/16/2020 18:00	1394.4
2/16/2020 18:00	2/16/2020 19:00	1450.3
2/16/2020 19:00	2/16/2020 20:00	1427.4
2/16/2020 20:00	2/16/2020 21:00	1407.2
2/16/2020 21:00	2/16/2020 22:00	1377.8
2/16/2020 22:00	2/16/2020 23:00	1381.9
2/16/2020 23:00	2/17/2020 0:00	1339.4
2/17/2020 0:00	2/17/2020 1:00	1304.6
2/17/2020 1:00	2/17/2020 2:00	1280.4
2/17/2020 2:00	2/17/2020 3:00	1269.0
2/17/2020 3:00	2/17/2020 4:00	1277.6
2/17/2020 4:00	2/17/2020 5:00	1291.4
2/17/2020 5:00	2/17/2020 6:00	1331.4
2/17/2020 6:00	2/17/2020 7:00	1398.1
2/17/2020 7:00	2/17/2020 8:00	1379.7
2/17/2020 8:00	2/17/2020 9:00	1428.5
2/17/2020 9:00	2/17/2020 10:00	1462.3
2/17/2020 10:00	2/17/2020 11:00	1430.1
2/17/2020 11:00	2/17/2020 12:00	1378.7
2/17/2020 12:00	2/17/2020 13:00	1296.8
2/17/2020 13:00	2/17/2020 14:00	1239.9
2/17/2020 14:00	2/17/2020 15:00	1218.9
2/17/2020 15:00	2/17/2020 16:00	1218.2
2/17/2020 16:00	2/17/2020 17:00	1256.4
2/17/2020 17:00	2/17/2020 18:00	1343.1
2/17/2020 18:00	2/17/2020 19:00	1356.9
2/17/2020 19:00	2/17/2020 20:00	1270.4
2/17/2020 20:00	2/17/2020 21:00	1226.6
2/17/2020 21:00	2/17/2020 22:00	1140.8
2/17/2020 22:00	2/17/2020 23:00	1071.3
2/17/2020 23:00	2/18/2020 0:00	1025.0
2/18/2020 0:00	2/18/2020 1:00	1027.9
2/18/2020 1:00	2/18/2020 2:00	1059.7
2/18/2020 2:00	2/18/2020 3:00	1079.2
2/18/2020 3:00	2/18/2020 4:00	1127.1
2/18/2020 4:00	2/18/2020 5:00	1219.4
2/18/2020 5:00	2/18/2020 6:00	1336.3
2/18/2020 6:00	2/18/2020 7:00	1459.8
2/18/2020 7:00	2/18/2020 8:00	1601.9
2/18/2020 8:00	2/18/2020 9:00	1643.7
2/18/2020 9:00	2/18/2020 10:00	1619.6
2/18/2020 10:00	2/18/2020 11:00	1580.7
2/18/2020 11:00	2/18/2020 12:00	1552.8
2/18/2020 12:00	2/18/2020 13:00	1530.9
2/18/2020 13:00	2/18/2020 14:00	1506.5
2/18/2020 14:00	2/18/2020 15:00	1463.3
2/18/2020 15:00	2/18/2020 16:00	1441.8
2/18/2020 16:00	2/18/2020 17:00	1468.3
2/18/2020 17:00	2/18/2020 18:00	1458.1
2/18/2020 18:00	2/18/2020 19:00	1403.6
2/18/2020 19:00	2/18/2020 20:00	1319.5
2/18/2020 20:00	2/18/2020 21:00	1221.8
2/18/2020 21:00	2/18/2020 22:00	1170.0
2/18/2020 22:00	2/18/2020 23:00	1078.0
2/18/2020 23:00	2/19/2020 0:00	1047.3
2/19/2020 0:00	2/19/2020 1:00	1020.1
2/19/2020 1:00	2/19/2020 2:00	973.8
2/19/2020 2:00	2/19/2020 3:00	921.1
2/19/2020 3:00	2/19/2020 4:00	899.8

Start Time	End Time	ANL_MW
2/19/2020 4:00	2/19/2020 5:00	875.2
2/19/2020 5:00	2/19/2020 6:00	922.1
2/19/2020 6:00	2/19/2020 7:00	1060.0
2/19/2020 7:00	2/19/2020 8:00	1147.5
2/19/2020 8:00	2/19/2020 9:00	1185.7
2/19/2020 9:00	2/19/2020 10:00	1227.6
2/19/2020 10:00	2/19/2020 11:00	1198.8
2/19/2020 11:00	2/19/2020 12:00	1170.1
2/19/2020 12:00	2/19/2020 13:00	1165.6
2/19/2020 13:00	2/19/2020 14:00	1111.8
2/19/2020 14:00	2/19/2020 15:00	1085.6
2/19/2020 15:00	2/19/2020 16:00	1029.7
2/19/2020 16:00	2/19/2020 17:00	1056.4
2/19/2020 17:00	2/19/2020 18:00	1099.2
2/19/2020 18:00	2/19/2020 19:00	1151.5
2/19/2020 19:00	2/19/2020 20:00	1153.5
2/19/2020 20:00	2/19/2020 21:00	1118.6
2/19/2020 21:00	2/19/2020 22:00	1065.6
2/19/2020 22:00	2/19/2020 23:00	991.7
2/19/2020 23:00	2/20/2020 0:00	1017.5
2/20/2020 0:00	2/20/2020 1:00	1043.7
2/20/2020 1:00	2/20/2020 2:00	1033.2
2/20/2020 2:00	2/20/2020 3:00	1042.4
2/20/2020 3:00	2/20/2020 4:00	1086.6
2/20/2020 4:00	2/20/2020 5:00	1112.2
2/20/2020 5:00	2/20/2020 6:00	1137.7
2/20/2020 6:00	2/20/2020 7:00	1245.0
2/20/2020 7:00	2/20/2020 8:00	1379.9
2/20/2020 8:00	2/20/2020 9:00	1357.0
2/20/2020 9:00	2/20/2020 10:00	1273.7
2/20/2020 10:00	2/20/2020 11:00	1268.7
2/20/2020 11:00	2/20/2020 12:00	1257.9
2/20/2020 12:00	2/20/2020 13:00	1269.8
2/20/2020 13:00	2/20/2020 14:00	1231.2
2/20/2020 14:00	2/20/2020 15:00	1222.9
2/20/2020 15:00	2/20/2020 16:00	1273.0
2/20/2020 16:00	2/20/2020 17:00	1357.9
2/20/2020 17:00	2/20/2020 18:00	1497.4
2/20/2020 18:00	2/20/2020 19:00	1632.1
2/20/2020 19:00	2/20/2020 20:00	1614.5
2/20/2020 20:00	2/20/2020 21:00	1573.8
2/20/2020 21:00	2/20/2020 22:00	1478.6
2/20/2020 22:00	2/20/2020 23:00	1385.8
2/20/2020 23:00	2/21/2020 0:00	1356.2
2/21/2020 0:00	2/21/2020 1:00	1363.4
2/21/2020 1:00	2/21/2020 2:00	1377.4
2/21/2020 2:00	2/21/2020 3:00	1425.7
2/21/2020 3:00	2/21/2020 4:00	1469.8
2/21/2020 4:00	2/21/2020 5:00	1513.2
2/21/2020 5:00	2/21/2020 6:00	1615.8
2/21/2020 6:00	2/21/2020 7:00	1743.6
2/21/2020 7:00	2/21/2020 8:00	1818.3
2/21/2020 8:00	2/21/2020 9:00	1818.8
2/21/2020 9:00	2/21/2020 10:00	1773.7
2/21/2020 10:00	2/21/2020 11:00	1735.5
2/21/2020 11:00	2/21/2020 12:00	1690.5
2/21/2020 12:00	2/21/2020 13:00	1667.0
2/21/2020 13:00	2/21/2020 14:00	1581.6
2/21/2020 14:00	2/21/2020 15:00	1508.9
2/21/2020 15:00	2/21/2020 16:00	1472.1
2/21/2020 16:00	2/21/2020 17:00	1477.4
2/21/2020 17:00	2/21/2020 18:00	1557.6
2/21/2020 18:00	2/21/2020 19:00	1599.7
2/21/2020 19:00	2/21/2020 20:00	1563.1
2/21/2020 20:00	2/21/2020 21:00	1485.7
2/21/2020 21:00	2/21/2020 22:00	1370.4
2/21/2020 22:00	2/21/2020 23:00	1267.3
2/21/2020 23:00	2/22/2020 0:00	1220.6
2/22/2020 0:00	2/22/2020 1:00	1240.6
2/22/2020 1:00	2/22/2020 2:00	1227.5

Start Time	End Time	ANL_MW
2/22/2020 2:00	2/22/2020 3:00	1193.8
2/22/2020 3:00	2/22/2020 4:00	1162.7
2/22/2020 4:00	2/22/2020 5:00	1129.0
2/22/2020 5:00	2/22/2020 6:00	1135.8
2/22/2020 6:00	2/22/2020 7:00	1178.6
2/22/2020 7:00	2/22/2020 8:00	1289.4
2/22/2020 8:00	2/22/2020 9:00	1383.8
2/22/2020 9:00	2/22/2020 10:00	1408.5
2/22/2020 10:00	2/22/2020 11:00	1391.3
2/22/2020 11:00	2/22/2020 12:00	1379.5
2/22/2020 12:00	2/22/2020 13:00	1350.6
2/22/2020 13:00	2/22/2020 14:00	1286.9
2/22/2020 14:00	2/22/2020 15:00	1271.2
2/22/2020 15:00	2/22/2020 16:00	1227.3
2/22/2020 16:00	2/22/2020 17:00	1265.8
2/22/2020 17:00	2/22/2020 18:00	1356.1
2/22/2020 18:00	2/22/2020 19:00	1416.5
2/22/2020 19:00	2/22/2020 20:00	1387.5
2/22/2020 20:00	2/22/2020 21:00	1359.0
2/22/2020 21:00	2/22/2020 22:00	1305.0
2/22/2020 22:00	2/22/2020 23:00	1284.1
2/22/2020 23:00	2/23/2020 0:00	1252.0
2/23/2020 0:00	2/23/2020 1:00	1183.6
2/23/2020 1:00	2/23/2020 2:00	1163.5
2/23/2020 2:00	2/23/2020 3:00	1166.2
2/23/2020 3:00	2/23/2020 4:00	1173.1
2/23/2020 4:00	2/23/2020 5:00	1196.2
2/23/2020 5:00	2/23/2020 6:00	1149.7
2/23/2020 6:00	2/23/2020 7:00	1178.4
2/23/2020 7:00	2/23/2020 8:00	1239.0
2/23/2020 8:00	2/23/2020 9:00	1318.9
2/23/2020 9:00	2/23/2020 10:00	1369.3
2/23/2020 10:00	2/23/2020 11:00	1359.9
2/23/2020 11:00	2/23/2020 12:00	1299.8
2/23/2020 12:00	2/23/2020 13:00	1216.6
2/23/2020 13:00	2/23/2020 14:00	1135.6
2/23/2020 14:00	2/23/2020 15:00	1123.4
2/23/2020 15:00	2/23/2020 16:00	1133.6
2/23/2020 16:00	2/23/2020 17:00	1219.0
2/23/2020 17:00	2/23/2020 18:00	1281.7
2/23/2020 18:00	2/23/2020 19:00	1285.0
2/23/2020 19:00	2/23/2020 20:00	1261.8
2/23/2020 20:00	2/23/2020 21:00	1259.6
2/23/2020 21:00	2/23/2020 22:00	1235.8
2/23/2020 22:00	2/23/2020 23:00	1165.6
2/23/2020 23:00	2/24/2020 0:00	1129.9
2/24/2020 0:00	2/24/2020 1:00	1146.6
2/24/2020 1:00	2/24/2020 2:00	1173.2
2/24/2020 2:00	2/24/2020 3:00	1190.8
2/24/2020 3:00	2/24/2020 4:00	1206.2
2/24/2020 4:00	2/24/2020 5:00	1265.1
2/24/2020 5:00	2/24/2020 6:00	1328.1
2/24/2020 6:00	2/24/2020 7:00	1444.9
2/24/2020 7:00	2/24/2020 8:00	1507.2
2/24/2020 8:00	2/24/2020 9:00	1501.2
2/24/2020 9:00	2/24/2020 10:00	1463.4
2/24/2020 10:00	2/24/2020 11:00	1403.6
2/24/2020 11:00	2/24/2020 12:00	1327.1
2/24/2020 12:00	2/24/2020 13:00	1297.1
2/24/2020 13:00	2/24/2020 14:00	1244.6
2/24/2020 14:00	2/24/2020 15:00	1193.6
2/24/2020 15:00	2/24/2020 16:00	1187.1
2/24/2020 16:00	2/24/2020 17:00	1231.5
2/24/2020 17:00	2/24/2020 18:00	1272.3
2/24/2020 18:00	2/24/2020 19:00	1283.2
2/24/2020 19:00	2/24/2020 20:00	1219.0
2/24/2020 20:00	2/24/2020 21:00	1207.4
2/24/2020 21:00	2/24/2020 22:00	1130.6
2/24/2020 22:00	2/24/2020 23:00	1016.7
2/24/2020 23:00	2/25/2020 0:00	973.7

Start Time	End Time	ANL_MW
2/25/2020 0:00	2/25/2020 1:00	962.8
2/25/2020 1:00	2/25/2020 2:00	950.0
2/25/2020 2:00	2/25/2020 3:00	951.0
2/25/2020 3:00	2/25/2020 4:00	986.1
2/25/2020 4:00	2/25/2020 5:00	1068.9
2/25/2020 5:00	2/25/2020 6:00	1216.0
2/25/2020 6:00	2/25/2020 7:00	1364.4
2/25/2020 7:00	2/25/2020 8:00	1438.4
2/25/2020 8:00	2/25/2020 9:00	1480.4
2/25/2020 9:00	2/25/2020 10:00	1509.4
2/25/2020 10:00	2/25/2020 11:00	1494.9
2/25/2020 11:00	2/25/2020 12:00	1483.7
2/25/2020 12:00	2/25/2020 13:00	1457.6
2/25/2020 13:00	2/25/2020 14:00	1422.6
2/25/2020 14:00	2/25/2020 15:00	1397.4
2/25/2020 15:00	2/25/2020 16:00	1380.5
2/25/2020 16:00	2/25/2020 17:00	1346.8
2/25/2020 17:00	2/25/2020 18:00	1397.9
2/25/2020 18:00	2/25/2020 19:00	1395.1
2/25/2020 19:00	2/25/2020 20:00	1366.5
2/25/2020 20:00	2/25/2020 21:00	1345.9
2/25/2020 21:00	2/25/2020 22:00	1287.4
2/25/2020 22:00	2/25/2020 23:00	1234.2
2/25/2020 23:00	2/26/2020 0:00	1227.4
2/26/2020 0:00	2/26/2020 1:00	1179.7
2/26/2020 1:00	2/26/2020 2:00	1169.2
2/26/2020 2:00	2/26/2020 3:00	1197.7
2/26/2020 3:00	2/26/2020 4:00	1204.1
2/26/2020 4:00	2/26/2020 5:00	1225.5
2/26/2020 5:00	2/26/2020 6:00	1286.4
2/26/2020 6:00	2/26/2020 7:00	1395.1
2/26/2020 7:00	2/26/2020 8:00	1421.7
2/26/2020 8:00	2/26/2020 9:00	1422.3
2/26/2020 9:00	2/26/2020 10:00	1376.8
2/26/2020 10:00	2/26/2020 11:00	1322.5
2/26/2020 11:00	2/26/2020 12:00	1287.4
2/26/2020 12:00	2/26/2020 13:00	1259.6
2/26/2020 13:00	2/26/2020 14:00	1221.3
2/26/2020 14:00	2/26/2020 15:00	1233.8
2/26/2020 15:00	2/26/2020 16:00	1272.1
2/26/2020 16:00	2/26/2020 17:00	1330.0
2/26/2020 17:00	2/26/2020 18:00	1408.0
2/26/2020 18:00	2/26/2020 19:00	1423.2
2/26/2020 19:00	2/26/2020 20:00	1422.0
2/26/2020 20:00	2/26/2020 21:00	1402.8
2/26/2020 21:00	2/26/2020 22:00	1339.0
2/26/2020 22:00	2/26/2020 23:00	1257.6
2/26/2020 23:00	2/27/2020 0:00	1226.3
2/27/2020 0:00	2/27/2020 1:00	1201.4
2/27/2020 1:00	2/27/2020 2:00	1147.2
2/27/2020 2:00	2/27/2020 3:00	1140.3
2/27/2020 3:00	2/27/2020 4:00	1128.4
2/27/2020 4:00	2/27/2020 5:00	1128.0
2/27/2020 5:00	2/27/2020 6:00	1146.7
2/27/2020 6:00	2/27/2020 7:00	1128.1
2/27/2020 7:00	2/27/2020 8:00	1179.1
2/27/2020 8:00	2/27/2020 9:00	1197.6
2/27/2020 9:00	2/27/2020 10:00	1170.5
2/27/2020 10:00	2/27/2020 11:00	1160.6
2/27/2020 11:00	2/27/2020 12:00	1183.0
2/27/2020 12:00	2/27/2020 13:00	1273.7
2/27/2020 13:00	2/27/2020 14:00	1357.3
2/27/2020 14:00	2/27/2020 15:00	1346.3
2/27/2020 15:00	2/27/2020 16:00	1346.5
2/27/2020 16:00	2/27/2020 17:00	1375.5
2/27/2020 17:00	2/27/2020 18:00	1426.9
2/27/2020 18:00	2/27/2020 19:00	1398.0
2/27/2020 19:00	2/27/2020 20:00	1384.0
2/27/2020 20:00	2/27/2020 21:00	1326.7
2/27/2020 21:00	2/27/2020 22:00	1255.3

Start Time	End Time	ANL_MW
2/27/2020 22:00	2/27/2020 23:00	1171.2
2/27/2020 23:00	2/28/2020 0:00	1105.0
2/28/2020 0:00	2/28/2020 1:00	1057.3
2/28/2020 1:00	2/28/2020 2:00	944.3
2/28/2020 2:00	2/28/2020 3:00	928.9
2/28/2020 3:00	2/28/2020 4:00	934.5
2/28/2020 4:00	2/28/2020 5:00	937.0
2/28/2020 5:00	2/28/2020 6:00	974.1
2/28/2020 6:00	2/28/2020 7:00	1155.6
2/28/2020 7:00	2/28/2020 8:00	1298.7
2/28/2020 8:00	2/28/2020 9:00	1331.7
2/28/2020 9:00	2/28/2020 10:00	1297.2
2/28/2020 10:00	2/28/2020 11:00	1216.5
2/28/2020 11:00	2/28/2020 12:00	1225.5
2/28/2020 12:00	2/28/2020 13:00	1234.6
2/28/2020 13:00	2/28/2020 14:00	1207.9
2/28/2020 14:00	2/28/2020 15:00	1172.4
2/28/2020 15:00	2/28/2020 16:00	1126.6
2/28/2020 16:00	2/28/2020 17:00	1200.6
2/28/2020 17:00	2/28/2020 18:00	1313.5
2/28/2020 18:00	2/28/2020 19:00	1397.0
2/28/2020 19:00	2/28/2020 20:00	1398.2
2/28/2020 20:00	2/28/2020 21:00	1364.0
2/28/2020 21:00	2/28/2020 22:00	1337.9
2/28/2020 22:00	2/28/2020 23:00	1288.4
2/28/2020 23:00	2/29/2020 0:00	1285.9
2/29/2020 0:00	2/29/2020 1:00	1274.5
2/29/2020 1:00	2/29/2020 2:00	1258.4
2/29/2020 2:00	2/29/2020 3:00	1245.0
2/29/2020 3:00	2/29/2020 4:00	1226.4
2/29/2020 4:00	2/29/2020 5:00	1241.8
2/29/2020 5:00	2/29/2020 6:00	1286.1
2/29/2020 6:00	2/29/2020 7:00	1247.5
2/29/2020 7:00	2/29/2020 8:00	1308.7
2/29/2020 8:00	2/29/2020 9:00	1339.5
2/29/2020 9:00	2/29/2020 10:00	1382.2
2/29/2020 10:00	2/29/2020 11:00	1339.4
2/29/2020 11:00	2/29/2020 12:00	1288.6
2/29/2020 12:00	2/29/2020 13:00	1274.9
2/29/2020 13:00	2/29/2020 14:00	1255.2
2/29/2020 14:00	2/29/2020 15:00	1274.5
2/29/2020 15:00	2/29/2020 16:00	1308.9
2/29/2020 16:00	2/29/2020 17:00	1367.8
2/29/2020 17:00	2/29/2020 18:00	1451.5
2/29/2020 18:00	2/29/2020 19:00	1502.1
2/29/2020 19:00	2/29/2020 20:00	1484.4
2/29/2020 20:00	2/29/2020 21:00	1439.3
2/29/2020 21:00	2/29/2020 22:00	1387.8
2/29/2020 22:00	2/29/2020 23:00	1324.9
2/29/2020 23:00	3/1/2020 0:00	1261.3
3/1/2020 0:00	3/1/2020 1:00	1202.6
3/1/2020 1:00	3/1/2020 2:00	1134.1
3/1/2020 2:00	3/1/2020 3:00	1158.2
3/1/2020 3:00	3/1/2020 4:00	1183.0
3/1/2020 4:00	3/1/2020 5:00	1184.8
3/1/2020 5:00	3/1/2020 6:00	1220.2
3/1/2020 6:00	3/1/2020 7:00	1255.2
3/1/2020 7:00	3/1/2020 8:00	1313.2
3/1/2020 8:00	3/1/2020 9:00	1376.4
3/1/2020 9:00	3/1/2020 10:00	1395.9
3/1/2020 10:00	3/1/2020 11:00	1390.3
3/1/2020 11:00	3/1/2020 12:00	1391.5
3/1/2020 12:00	3/1/2020 13:00	1351.5
3/1/2020 13:00	3/1/2020 14:00	1299.6
3/1/2020 14:00	3/1/2020 15:00	1297.6
3/1/2020 15:00	3/1/2020 16:00	1324.6
3/1/2020 16:00	3/1/2020 17:00	1377.6
3/1/2020 17:00	3/1/2020 18:00	1410.3
3/1/2020 18:00	3/1/2020 19:00	1464.4
3/1/2020 19:00	3/1/2020 20:00	1427.1

Start Time	End Time	ANL_MW
3/1/2020 20:00	3/1/2020 21:00	1379.4
3/1/2020 21:00	3/1/2020 22:00	1312.3
3/1/2020 22:00	3/1/2020 23:00	1232.6
3/1/2020 23:00	3/2/2020 0:00	1165.0
3/2/2020 0:00	3/2/2020 1:00	1176.2
3/2/2020 1:00	3/2/2020 2:00	1158.4
3/2/2020 2:00	3/2/2020 3:00	1155.5
3/2/2020 3:00	3/2/2020 4:00	1156.3
3/2/2020 4:00	3/2/2020 5:00	1189.3
3/2/2020 5:00	3/2/2020 6:00	1205.5
3/2/2020 6:00	3/2/2020 7:00	1286.1
3/2/2020 7:00	3/2/2020 8:00	1395.8
3/2/2020 8:00	3/2/2020 9:00	1417.1
3/2/2020 9:00	3/2/2020 10:00	1413.7
3/2/2020 10:00	3/2/2020 11:00	1395.3
3/2/2020 11:00	3/2/2020 12:00	1387.9
3/2/2020 12:00	3/2/2020 13:00	1393.4
3/2/2020 13:00	3/2/2020 14:00	1373.0
3/2/2020 14:00	3/2/2020 15:00	1320.3
3/2/2020 15:00	3/2/2020 16:00	1277.7
3/2/2020 16:00	3/2/2020 17:00	1290.2
3/2/2020 17:00	3/2/2020 18:00	1320.8
3/2/2020 18:00	3/2/2020 19:00	1270.6
3/2/2020 19:00	3/2/2020 20:00	1189.4
3/2/2020 20:00	3/2/2020 21:00	1130.9
3/2/2020 21:00	3/2/2020 22:00	1109.7
3/2/2020 22:00	3/2/2020 23:00	986.7
3/2/2020 23:00	3/3/2020 0:00	926.4
3/3/2020 0:00	3/3/2020 1:00	869.4
3/3/2020 1:00	3/3/2020 2:00	829.7
3/3/2020 2:00	3/3/2020 3:00	784.3
3/3/2020 3:00	3/3/2020 4:00	783.4
3/3/2020 4:00	3/3/2020 5:00	784.8
3/3/2020 5:00	3/3/2020 6:00	832.2
3/3/2020 6:00	3/3/2020 7:00	982.3
3/3/2020 7:00	3/3/2020 8:00	1097.9
3/3/2020 8:00	3/3/2020 9:00	1154.8
3/3/2020 9:00	3/3/2020 10:00	1219.1
3/3/2020 10:00	3/3/2020 11:00	1199.5
3/3/2020 11:00	3/3/2020 12:00	1175.1
3/3/2020 12:00	3/3/2020 13:00	1219.0
3/3/2020 13:00	3/3/2020 14:00	1220.3
3/3/2020 14:00	3/3/2020 15:00	1235.4
3/3/2020 15:00	3/3/2020 16:00	1259.5
3/3/2020 16:00	3/3/2020 17:00	1335.2
3/3/2020 17:00	3/3/2020 18:00	1394.4
3/3/2020 18:00	3/3/2020 19:00	1412.1
3/3/2020 19:00	3/3/2020 20:00	1407.9
3/3/2020 20:00	3/3/2020 21:00	1370.2
3/3/2020 21:00	3/3/2020 22:00	1276.9
3/3/2020 22:00	3/3/2020 23:00	1162.3
3/3/2020 23:00	3/4/2020 0:00	1088.4
3/4/2020 0:00	3/4/2020 1:00	1028.5
3/4/2020 1:00	3/4/2020 2:00	1021.0
3/4/2020 2:00	3/4/2020 3:00	945.4
3/4/2020 3:00	3/4/2020 4:00	876.0
3/4/2020 4:00	3/4/2020 5:00	881.6
3/4/2020 5:00	3/4/2020 6:00	918.5
3/4/2020 6:00	3/4/2020 7:00	968.7
3/4/2020 7:00	3/4/2020 8:00	1049.8
3/4/2020 8:00	3/4/2020 9:00	1022.7
3/4/2020 9:00	3/4/2020 10:00	981.5
3/4/2020 10:00	3/4/2020 11:00	966.9
3/4/2020 11:00	3/4/2020 12:00	942.2
3/4/2020 12:00	3/4/2020 13:00	935.8
3/4/2020 13:00	3/4/2020 14:00	935.6
3/4/2020 14:00	3/4/2020 15:00	954.7
3/4/2020 15:00	3/4/2020 16:00	985.9
3/4/2020 16:00	3/4/2020 17:00	996.7
3/4/2020 17:00	3/4/2020 18:00	1044.2

Start Time	End Time	ANL_MW
3/4/2020 18:00	3/4/2020 19:00	1081.9
3/4/2020 19:00	3/4/2020 20:00	1143.4
3/4/2020 20:00	3/4/2020 21:00	1110.5
3/4/2020 21:00	3/4/2020 22:00	1066.3
3/4/2020 22:00	3/4/2020 23:00	973.4
3/4/2020 23:00	3/5/2020 0:00	916.3
3/5/2020 0:00	3/5/2020 1:00	875.5
3/5/2020 1:00	3/5/2020 2:00	813.6
3/5/2020 2:00	3/5/2020 3:00	822.9
3/5/2020 3:00	3/5/2020 4:00	832.2
3/5/2020 4:00	3/5/2020 5:00	826.7
3/5/2020 5:00	3/5/2020 6:00	861.8
3/5/2020 6:00	3/5/2020 7:00	990.6
3/5/2020 7:00	3/5/2020 8:00	1080.6
3/5/2020 8:00	3/5/2020 9:00	1107.6
3/5/2020 9:00	3/5/2020 10:00	1092.4
3/5/2020 10:00	3/5/2020 11:00	1070.4
3/5/2020 11:00	3/5/2020 12:00	998.2
3/5/2020 12:00	3/5/2020 13:00	1004.6
3/5/2020 13:00	3/5/2020 14:00	976.3
3/5/2020 14:00	3/5/2020 15:00	962.7
3/5/2020 15:00	3/5/2020 16:00	1016.5
3/5/2020 16:00	3/5/2020 17:00	1042.7
3/5/2020 17:00	3/5/2020 18:00	1057.9
3/5/2020 18:00	3/5/2020 19:00	1140.9
3/5/2020 19:00	3/5/2020 20:00	1130.6
3/5/2020 20:00	3/5/2020 21:00	1082.7
3/5/2020 21:00	3/5/2020 22:00	1024.0
3/5/2020 22:00	3/5/2020 23:00	987.2
3/5/2020 23:00	3/6/2020 0:00	996.0
3/6/2020 0:00	3/6/2020 1:00	987.4
3/6/2020 1:00	3/6/2020 2:00	978.2
3/6/2020 2:00	3/6/2020 3:00	997.7
3/6/2020 3:00	3/6/2020 4:00	1015.4
3/6/2020 4:00	3/6/2020 5:00	1050.8
3/6/2020 5:00	3/6/2020 6:00	1101.5
3/6/2020 6:00	3/6/2020 7:00	1291.5
3/6/2020 7:00	3/6/2020 8:00	1404.2
3/6/2020 8:00	3/6/2020 9:00	1424.9
3/6/2020 9:00	3/6/2020 10:00	1396.5
3/6/2020 10:00	3/6/2020 11:00	1379.1
3/6/2020 11:00	3/6/2020 12:00	1362.4
3/6/2020 12:00	3/6/2020 13:00	1358.5
3/6/2020 13:00	3/6/2020 14:00	1328.7
3/6/2020 14:00	3/6/2020 15:00	1299.0
3/6/2020 15:00	3/6/2020 16:00	1272.9
3/6/2020 16:00	3/6/2020 17:00	1301.0
3/6/2020 17:00	3/6/2020 18:00	1395.8
3/6/2020 18:00	3/6/2020 19:00	1404.4
3/6/2020 19:00	3/6/2020 20:00	1381.7
3/6/2020 20:00	3/6/2020 21:00	1324.9
3/6/2020 21:00	3/6/2020 22:00	1290.9
3/6/2020 22:00	3/6/2020 23:00	1184.2
3/6/2020 23:00	3/7/2020 0:00	1101.1
3/7/2020 0:00	3/7/2020 1:00	1069.7
3/7/2020 1:00	3/7/2020 2:00	1023.0
3/7/2020 2:00	3/7/2020 3:00	969.0
3/7/2020 3:00	3/7/2020 4:00	967.0
3/7/2020 4:00	3/7/2020 5:00	975.8
3/7/2020 5:00	3/7/2020 6:00	1005.2
3/7/2020 6:00	3/7/2020 7:00	1071.0
3/7/2020 7:00	3/7/2020 8:00	1173.1
3/7/2020 8:00	3/7/2020 9:00	1274.1
3/7/2020 9:00	3/7/2020 10:00	1338.5
3/7/2020 10:00	3/7/2020 11:00	1404.9
3/7/2020 11:00	3/7/2020 12:00	1422.7
3/7/2020 12:00	3/7/2020 13:00	1433.9
3/7/2020 13:00	3/7/2020 14:00	1413.0
3/7/2020 14:00	3/7/2020 15:00	1327.5
3/7/2020 15:00	3/7/2020 16:00	1341.7

Start Time	End Time	ANL_MW
3/7/2020 16:00	3/7/2020 17:00	1368.1
3/7/2020 17:00	3/7/2020 18:00	1380.2
3/7/2020 18:00	3/7/2020 19:00	1355.2
3/7/2020 19:00	3/7/2020 20:00	1295.4
3/7/2020 20:00	3/7/2020 21:00	1226.4
3/7/2020 21:00	3/7/2020 22:00	1214.4
3/7/2020 22:00	3/7/2020 23:00	1171.0
3/7/2020 23:00	3/8/2020 0:00	1103.7
3/8/2020 0:00	3/8/2020 1:00	1069.3
3/8/2020 1:00	3/8/2020 1:59	1029.7
3/8/2020 1:59	3/8/2020 4:00	1052.9
3/8/2020 4:00	3/8/2020 5:00	1069.6
3/8/2020 5:00	3/8/2020 6:00	1173.3
3/8/2020 6:00	3/8/2020 7:00	1267.2
3/8/2020 7:00	3/8/2020 8:00	1307.4
3/8/2020 8:00	3/8/2020 9:00	1292.1
3/8/2020 9:00	3/8/2020 10:00	1378.5
3/8/2020 10:00	3/8/2020 11:00	1421.7
3/8/2020 11:00	3/8/2020 12:00	1407.6
3/8/2020 12:00	3/8/2020 13:00	1338.5
3/8/2020 13:00	3/8/2020 14:00	1279.8
3/8/2020 14:00	3/8/2020 15:00	1183.3
3/8/2020 15:00	3/8/2020 16:00	1090.4
3/8/2020 16:00	3/8/2020 17:00	1104.1
3/8/2020 17:00	3/8/2020 18:00	1145.4
3/8/2020 18:00	3/8/2020 19:00	1286.7
3/8/2020 19:00	3/8/2020 20:00	1466.8
3/8/2020 20:00	3/8/2020 21:00	1492.9
3/8/2020 21:00	3/8/2020 22:00	1396.0
3/8/2020 22:00	3/8/2020 23:00	1235.3
3/8/2020 23:00	3/9/2020 0:00	1143.6
3/9/2020 0:00	3/9/2020 1:00	1094.3
3/9/2020 1:00	3/9/2020 2:00	1065.8
3/9/2020 2:00	3/9/2020 3:00	1109.0
3/9/2020 3:00	3/9/2020 4:00	1154.2
3/9/2020 4:00	3/9/2020 5:00	1194.7
3/9/2020 5:00	3/9/2020 6:00	1278.6
3/9/2020 6:00	3/9/2020 7:00	1343.2
3/9/2020 7:00	3/9/2020 8:00	1476.5
3/9/2020 8:00	3/9/2020 9:00	1514.6
3/9/2020 9:00	3/9/2020 10:00	1491.6
3/9/2020 10:00	3/9/2020 11:00	1433.5
3/9/2020 11:00	3/9/2020 12:00	1400.4
3/9/2020 12:00	3/9/2020 13:00	1394.1
3/9/2020 13:00	3/9/2020 14:00	1361.6
3/9/2020 14:00	3/9/2020 15:00	1344.6
3/9/2020 15:00	3/9/2020 16:00	1326.6
3/9/2020 16:00	3/9/2020 17:00	1338.3
3/9/2020 17:00	3/9/2020 18:00	1365.2
3/9/2020 18:00	3/9/2020 19:00	1348.9
3/9/2020 19:00	3/9/2020 20:00	1390.4
3/9/2020 20:00	3/9/2020 21:00	1387.8
3/9/2020 21:00	3/9/2020 22:00	1336.9
3/9/2020 22:00	3/9/2020 23:00	1265.8
3/9/2020 23:00	3/10/2020 0:00	1232.6
3/10/2020 0:00	3/10/2020 1:00	1205.6
3/10/2020 1:00	3/10/2020 2:00	1158.7
3/10/2020 2:00	3/10/2020 3:00	1141.4
3/10/2020 3:00	3/10/2020 4:00	1148.1
3/10/2020 4:00	3/10/2020 5:00	1166.0
3/10/2020 5:00	3/10/2020 6:00	1190.8
3/10/2020 6:00	3/10/2020 7:00	1264.3
3/10/2020 7:00	3/10/2020 8:00	1302.4
3/10/2020 8:00	3/10/2020 9:00	1333.7
3/10/2020 9:00	3/10/2020 10:00	1315.3
3/10/2020 10:00	3/10/2020 11:00	1312.4
3/10/2020 11:00	3/10/2020 12:00	1359.6
3/10/2020 12:00	3/10/2020 13:00	1391.4
3/10/2020 13:00	3/10/2020 14:00	1403.9
3/10/2020 14:00	3/10/2020 15:00	1395.1

Start Time	End Time	ANL_MW
3/10/2020 15:00	3/10/2020 16:00	1409.4
3/10/2020 16:00	3/10/2020 17:00	1438.5
3/10/2020 17:00	3/10/2020 18:00	1442.6
3/10/2020 18:00	3/10/2020 19:00	1405.7
3/10/2020 19:00	3/10/2020 20:00	1390.0
3/10/2020 20:00	3/10/2020 21:00	1295.0
3/10/2020 21:00	3/10/2020 22:00	1206.5
3/10/2020 22:00	3/10/2020 23:00	1053.6
3/10/2020 23:00	3/11/2020 0:00	1035.8
3/11/2020 0:00	3/11/2020 1:00	1010.1
3/11/2020 1:00	3/11/2020 2:00	959.1
3/11/2020 2:00	3/11/2020 3:00	933.2
3/11/2020 3:00	3/11/2020 4:00	932.5
3/11/2020 4:00	3/11/2020 5:00	990.3
3/11/2020 5:00	3/11/2020 6:00	1117.6
3/11/2020 6:00	3/11/2020 7:00	1221.7
3/11/2020 7:00	3/11/2020 8:00	1303.9
3/11/2020 8:00	3/11/2020 9:00	1266.5
3/11/2020 9:00	3/11/2020 10:00	1258.5
3/11/2020 10:00	3/11/2020 11:00	1227.7
3/11/2020 11:00	3/11/2020 12:00	1180.0
3/11/2020 12:00	3/11/2020 13:00	1211.8
3/11/2020 13:00	3/11/2020 14:00	1208.5
3/11/2020 14:00	3/11/2020 15:00	1203.2
3/11/2020 15:00	3/11/2020 16:00	1219.4
3/11/2020 16:00	3/11/2020 17:00	1286.4
3/11/2020 17:00	3/11/2020 18:00	1363.6
3/11/2020 18:00	3/11/2020 19:00	1418.5
3/11/2020 19:00	3/11/2020 20:00	1475.3
3/11/2020 20:00	3/11/2020 21:00	1489.3
3/11/2020 21:00	3/11/2020 22:00	1441.8
3/11/2020 22:00	3/11/2020 23:00	1379.3
3/11/2020 23:00	3/12/2020 0:00	1377.6
3/12/2020 0:00	3/12/2020 1:00	1391.9
3/12/2020 1:00	3/12/2020 2:00	1321.0
3/12/2020 2:00	3/12/2020 3:00	1294.8
3/12/2020 3:00	3/12/2020 4:00	1284.7
3/12/2020 4:00	3/12/2020 5:00	1270.3
3/12/2020 5:00	3/12/2020 6:00	1314.2
3/12/2020 6:00	3/12/2020 7:00	1431.2
3/12/2020 7:00	3/12/2020 8:00	1538.4
3/12/2020 8:00	3/12/2020 9:00	1553.7
3/12/2020 9:00	3/12/2020 10:00	1499.5
3/12/2020 10:00	3/12/2020 11:00	1442.2
3/12/2020 11:00	3/12/2020 12:00	1409.5
3/12/2020 12:00	3/12/2020 13:00	1378.7
3/12/2020 13:00	3/12/2020 14:00	1323.5
3/12/2020 14:00	3/12/2020 15:00	1261.6
3/12/2020 15:00	3/12/2020 16:00	1226.9
3/12/2020 16:00	3/12/2020 17:00	1234.1
3/12/2020 17:00	3/12/2020 18:00	1249.1
3/12/2020 18:00	3/12/2020 19:00	1268.8
3/12/2020 19:00	3/12/2020 20:00	1368.6
3/12/2020 20:00	3/12/2020 21:00	1409.6
3/12/2020 21:00	3/12/2020 22:00	1415.5
3/12/2020 22:00	3/12/2020 23:00	1386.1
3/12/2020 23:00	3/13/2020 0:00	1364.3
3/13/2020 0:00	3/13/2020 1:00	1358.8
3/13/2020 1:00	3/13/2020 2:00	1322.3
3/13/2020 2:00	3/13/2020 3:00	1295.0
3/13/2020 3:00	3/13/2020 4:00	1298.7
3/13/2020 4:00	3/13/2020 5:00	1296.2
3/13/2020 5:00	3/13/2020 6:00	1326.8
3/13/2020 6:00	3/13/2020 7:00	1456.8
3/13/2020 7:00	3/13/2020 8:00	1466.5
3/13/2020 8:00	3/13/2020 9:00	1409.3
3/13/2020 9:00	3/13/2020 10:00	1358.1
3/13/2020 10:00	3/13/2020 11:00	1272.7
3/13/2020 11:00	3/13/2020 12:00	1270.2
3/13/2020 12:00	3/13/2020 13:00	1180.7

Start Time	End Time	ANL_MW
3/13/2020 13:00	3/13/2020 14:00	1109.0
3/13/2020 14:00	3/13/2020 15:00	1101.0
3/13/2020 15:00	3/13/2020 16:00	1100.0
3/13/2020 16:00	3/13/2020 17:00	1095.1
3/13/2020 17:00	3/13/2020 18:00	1138.9
3/13/2020 18:00	3/13/2020 19:00	1159.6
3/13/2020 19:00	3/13/2020 20:00	1196.4
3/13/2020 20:00	3/13/2020 21:00	1171.6
3/13/2020 21:00	3/13/2020 22:00	1099.2
3/13/2020 22:00	3/13/2020 23:00	981.7
3/13/2020 23:00	3/14/2020 0:00	885.9
3/14/2020 0:00	3/14/2020 1:00	830.5
3/14/2020 1:00	3/14/2020 2:00	794.1
3/14/2020 2:00	3/14/2020 3:00	799.0
3/14/2020 3:00	3/14/2020 4:00	813.1
3/14/2020 4:00	3/14/2020 5:00	821.7
3/14/2020 5:00	3/14/2020 6:00	832.1
3/14/2020 6:00	3/14/2020 7:00	875.6
3/14/2020 7:00	3/14/2020 8:00	920.5
3/14/2020 8:00	3/14/2020 9:00	989.4
3/14/2020 9:00	3/14/2020 10:00	1010.8
3/14/2020 10:00	3/14/2020 11:00	994.7
3/14/2020 11:00	3/14/2020 12:00	1003.4
3/14/2020 12:00	3/14/2020 13:00	1012.6
3/14/2020 13:00	3/14/2020 14:00	984.8
3/14/2020 14:00	3/14/2020 15:00	959.3
3/14/2020 15:00	3/14/2020 16:00	955.3
3/14/2020 16:00	3/14/2020 17:00	980.5
3/14/2020 17:00	3/14/2020 18:00	1004.0
3/14/2020 18:00	3/14/2020 19:00	961.3
3/14/2020 19:00	3/14/2020 20:00	983.4
3/14/2020 20:00	3/14/2020 21:00	983.4
3/14/2020 21:00	3/14/2020 22:00	943.1
3/14/2020 22:00	3/14/2020 23:00	887.4
3/14/2020 23:00	3/15/2020 0:00	853.2
3/15/2020 0:00	3/15/2020 1:00	823.0
3/15/2020 1:00	3/15/2020 2:00	827.8
3/15/2020 2:00	3/15/2020 3:00	852.6
3/15/2020 3:00	3/15/2020 4:00	885.4
3/15/2020 4:00	3/15/2020 5:00	874.5
3/15/2020 5:00	3/15/2020 6:00	883.5
3/15/2020 6:00	3/15/2020 7:00	921.8
3/15/2020 7:00	3/15/2020 8:00	975.2
3/15/2020 8:00	3/15/2020 9:00	1014.9
3/15/2020 9:00	3/15/2020 10:00	1018.9
3/15/2020 10:00	3/15/2020 11:00	1087.0
3/15/2020 11:00	3/15/2020 12:00	1153.4
3/15/2020 12:00	3/15/2020 13:00	1212.1
3/15/2020 13:00	3/15/2020 14:00	1240.7
3/15/2020 14:00	3/15/2020 15:00	1231.4
3/15/2020 15:00	3/15/2020 16:00	1214.6
3/15/2020 16:00	3/15/2020 17:00	1251.0
3/15/2020 17:00	3/15/2020 18:00	1279.9
3/15/2020 18:00	3/15/2020 19:00	1284.3
3/15/2020 19:00	3/15/2020 20:00	1341.0
3/15/2020 20:00	3/15/2020 21:00	1383.0
3/15/2020 21:00	3/15/2020 22:00	1328.6
3/15/2020 22:00	3/15/2020 23:00	1262.3
3/15/2020 23:00	3/16/2020 0:00	1229.4
3/16/2020 0:00	3/16/2020 1:00	1180.3
3/16/2020 1:00	3/16/2020 2:00	1159.6
3/16/2020 2:00	3/16/2020 3:00	1129.4
3/16/2020 3:00	3/16/2020 4:00	1150.9
3/16/2020 4:00	3/16/2020 5:00	1157.5
3/16/2020 5:00	3/16/2020 6:00	1137.8
3/16/2020 6:00	3/16/2020 7:00	1298.9
3/16/2020 7:00	3/16/2020 8:00	1421.5
3/16/2020 8:00	3/16/2020 9:00	1483.3
3/16/2020 9:00	3/16/2020 10:00	1454.1
3/16/2020 10:00	3/16/2020 11:00	1409.4

Start Time	End Time	ANL_MW
3/16/2020 11:00	3/16/2020 12:00	1390.1
3/16/2020 12:00	3/16/2020 13:00	1377.1
3/16/2020 13:00	3/16/2020 14:00	1303.0
3/16/2020 14:00	3/16/2020 15:00	1272.7
3/16/2020 15:00	3/16/2020 16:00	1254.2
3/16/2020 16:00	3/16/2020 17:00	1306.4
3/16/2020 17:00	3/16/2020 18:00	1383.9
3/16/2020 18:00	3/16/2020 19:00	1342.6
3/16/2020 19:00	3/16/2020 20:00	1415.9
3/16/2020 20:00	3/16/2020 21:00	1450.4
3/16/2020 21:00	3/16/2020 22:00	1418.5
3/16/2020 22:00	3/16/2020 23:00	1362.2
3/16/2020 23:00	3/17/2020 0:00	1412.2
3/17/2020 0:00	3/17/2020 1:00	1425.9
3/17/2020 1:00	3/17/2020 2:00	1409.1
3/17/2020 2:00	3/17/2020 3:00	1390.9
3/17/2020 3:00	3/17/2020 4:00	1371.2
3/17/2020 4:00	3/17/2020 5:00	1351.2
3/17/2020 5:00	3/17/2020 6:00	1289.4
3/17/2020 6:00	3/17/2020 7:00	1319.5
3/17/2020 7:00	3/17/2020 8:00	1340.3
3/17/2020 8:00	3/17/2020 9:00	1351.0
3/17/2020 9:00	3/17/2020 10:00	1349.5
3/17/2020 10:00	3/17/2020 11:00	1220.4
3/17/2020 11:00	3/17/2020 12:00	1166.3
3/17/2020 12:00	3/17/2020 13:00	1106.2
3/17/2020 13:00	3/17/2020 14:00	1063.7
3/17/2020 14:00	3/17/2020 15:00	1018.7
3/17/2020 15:00	3/17/2020 16:00	1019.3
3/17/2020 16:00	3/17/2020 17:00	1076.8
3/17/2020 17:00	3/17/2020 18:00	1124.4
3/17/2020 18:00	3/17/2020 19:00	1108.5
3/17/2020 19:00	3/17/2020 20:00	1122.9
3/17/2020 20:00	3/17/2020 21:00	1104.2
3/17/2020 21:00	3/17/2020 22:00	1141.5
3/17/2020 22:00	3/17/2020 23:00	1136.8
3/17/2020 23:00	3/18/2020 0:00	1262.4
3/18/2020 0:00	3/18/2020 1:00	1274.8
3/18/2020 1:00	3/18/2020 2:00	1164.0
3/18/2020 2:00	3/18/2020 3:00	1128.0
3/18/2020 3:00	3/18/2020 4:00	999.7
3/18/2020 4:00	3/18/2020 5:00	953.5
3/18/2020 5:00	3/18/2020 6:00	940.4
3/18/2020 6:00	3/18/2020 7:00	972.8
3/18/2020 7:00	3/18/2020 8:00	1042.1
3/18/2020 8:00	3/18/2020 9:00	1116.2
3/18/2020 9:00	3/18/2020 10:00	1138.7
3/18/2020 10:00	3/18/2020 11:00	1107.3
3/18/2020 11:00	3/18/2020 12:00	1095.3
3/18/2020 12:00	3/18/2020 13:00	1107.1
3/18/2020 13:00	3/18/2020 14:00	1092.0
3/18/2020 14:00	3/18/2020 15:00	1042.2
3/18/2020 15:00	3/18/2020 16:00	1039.5
3/18/2020 16:00	3/18/2020 17:00	1112.3
3/18/2020 17:00	3/18/2020 18:00	1111.2
3/18/2020 18:00	3/18/2020 19:00	1175.7
3/18/2020 19:00	3/18/2020 20:00	1296.4
3/18/2020 20:00	3/18/2020 21:00	1356.6
3/18/2020 21:00	3/18/2020 22:00	1314.4
3/18/2020 22:00	3/18/2020 23:00	1208.4
3/18/2020 23:00	3/19/2020 0:00	1198.9
3/19/2020 0:00	3/19/2020 1:00	1236.9
3/19/2020 1:00	3/19/2020 2:00	1245.8
3/19/2020 2:00	3/19/2020 3:00	1242.0
3/19/2020 3:00	3/19/2020 4:00	1258.6
3/19/2020 4:00	3/19/2020 5:00	1262.1
3/19/2020 5:00	3/19/2020 6:00	1309.7
3/19/2020 6:00	3/19/2020 7:00	1364.3
3/19/2020 7:00	3/19/2020 8:00	1413.4
3/19/2020 8:00	3/19/2020 9:00	1446.4

Start Time	End Time	ANL_MW
3/19/2020 9:00	3/19/2020 10:00	1418.6
3/19/2020 10:00	3/19/2020 11:00	1350.9
3/19/2020 11:00	3/19/2020 12:00	1275.2
3/19/2020 12:00	3/19/2020 13:00	1228.6
3/19/2020 13:00	3/19/2020 14:00	1189.6
3/19/2020 14:00	3/19/2020 15:00	1178.3
3/19/2020 15:00	3/19/2020 16:00	1176.4
3/19/2020 16:00	3/19/2020 17:00	1156.4
3/19/2020 17:00	3/19/2020 18:00	1221.5
3/19/2020 18:00	3/19/2020 19:00	1173.8
3/19/2020 19:00	3/19/2020 20:00	1205.3
3/19/2020 20:00	3/19/2020 21:00	1250.1
3/19/2020 21:00	3/19/2020 22:00	1168.4
3/19/2020 22:00	3/19/2020 23:00	1016.0
3/19/2020 23:00	3/20/2020 0:00	902.6
3/20/2020 0:00	3/20/2020 1:00	820.0
3/20/2020 1:00	3/20/2020 2:00	744.7
3/20/2020 2:00	3/20/2020 3:00	699.5
3/20/2020 3:00	3/20/2020 4:00	692.9
3/20/2020 4:00	3/20/2020 5:00	667.3
3/20/2020 5:00	3/20/2020 6:00	727.5
3/20/2020 6:00	3/20/2020 7:00	845.6
3/20/2020 7:00	3/20/2020 8:00	884.6
3/20/2020 8:00	3/20/2020 9:00	947.7
3/20/2020 9:00	3/20/2020 10:00	994.9
3/20/2020 10:00	3/20/2020 11:00	1001.8
3/20/2020 11:00	3/20/2020 12:00	950.5
3/20/2020 12:00	3/20/2020 13:00	921.9
3/20/2020 13:00	3/20/2020 14:00	917.7
3/20/2020 14:00	3/20/2020 15:00	898.5
3/20/2020 15:00	3/20/2020 16:00	861.4
3/20/2020 16:00	3/20/2020 17:00	872.8
3/20/2020 17:00	3/20/2020 18:00	876.5
3/20/2020 18:00	3/20/2020 19:00	849.9
3/20/2020 19:00	3/20/2020 20:00	826.4
3/20/2020 20:00	3/20/2020 21:00	771.3
3/20/2020 21:00	3/20/2020 22:00	749.6
3/20/2020 22:00	3/20/2020 23:00	684.9
3/20/2020 23:00	3/21/2020 0:00	660.3
3/21/2020 0:00	3/21/2020 1:00	633.8
3/21/2020 1:00	3/21/2020 2:00	575.7
3/21/2020 2:00	3/21/2020 3:00	549.8
3/21/2020 3:00	3/21/2020 4:00	570.8
3/21/2020 4:00	3/21/2020 5:00	566.6
3/21/2020 5:00	3/21/2020 6:00	577.0
3/21/2020 6:00	3/21/2020 7:00	648.0
3/21/2020 7:00	3/21/2020 8:00	704.9
3/21/2020 8:00	3/21/2020 9:00	761.9
3/21/2020 9:00	3/21/2020 10:00	814.7
3/21/2020 10:00	3/21/2020 11:00	825.8
3/21/2020 11:00	3/21/2020 12:00	847.8
3/21/2020 12:00	3/21/2020 13:00	817.6
3/21/2020 13:00	3/21/2020 14:00	798.2
3/21/2020 14:00	3/21/2020 15:00	785.4
3/21/2020 15:00	3/21/2020 16:00	769.4
3/21/2020 16:00	3/21/2020 17:00	819.0
3/21/2020 17:00	3/21/2020 18:00	904.4
3/21/2020 18:00	3/21/2020 19:00	971.4
3/21/2020 19:00	3/21/2020 20:00	1088.5
3/21/2020 20:00	3/21/2020 21:00	1110.9
3/21/2020 21:00	3/21/2020 22:00	1096.4
3/21/2020 22:00	3/21/2020 23:00	1038.0
3/21/2020 23:00	3/22/2020 0:00	985.8
3/22/2020 0:00	3/22/2020 1:00	912.3
3/22/2020 1:00	3/22/2020 2:00	913.7
3/22/2020 2:00	3/22/2020 3:00	938.8
3/22/2020 3:00	3/22/2020 4:00	965.5
3/22/2020 4:00	3/22/2020 5:00	947.2
3/22/2020 5:00	3/22/2020 6:00	995.5
3/22/2020 6:00	3/22/2020 7:00	1059.0

Start Time	End Time	ANL_MW
3/22/2020 7:00	3/22/2020 8:00	1130.6
3/22/2020 8:00	3/22/2020 9:00	1186.3
3/22/2020 9:00	3/22/2020 10:00	1225.4
3/22/2020 10:00	3/22/2020 11:00	1229.7
3/22/2020 11:00	3/22/2020 12:00	1222.7
3/22/2020 12:00	3/22/2020 13:00	1210.1
3/22/2020 13:00	3/22/2020 14:00	1181.8
3/22/2020 14:00	3/22/2020 15:00	1132.1
3/22/2020 15:00	3/22/2020 16:00	1121.6
3/22/2020 16:00	3/22/2020 17:00	1162.6
3/22/2020 17:00	3/22/2020 18:00	1198.3
3/22/2020 18:00	3/22/2020 19:00	1227.4
3/22/2020 19:00	3/22/2020 20:00	1350.1
3/22/2020 20:00	3/22/2020 21:00	1368.1
3/22/2020 21:00	3/22/2020 22:00	1309.2
3/22/2020 22:00	3/22/2020 23:00	1263.3
3/22/2020 23:00	3/23/2020 0:00	1242.6
3/23/2020 0:00	3/23/2020 1:00	1183.7
3/23/2020 1:00	3/23/2020 2:00	1187.3
3/23/2020 2:00	3/23/2020 3:00	1197.5
3/23/2020 3:00	3/23/2020 4:00	1230.0
3/23/2020 4:00	3/23/2020 5:00	1300.5
3/23/2020 5:00	3/23/2020 6:00	1371.8
3/23/2020 6:00	3/23/2020 7:00	1486.3
3/23/2020 7:00	3/23/2020 8:00	1569.6
3/23/2020 8:00	3/23/2020 9:00	1582.1
3/23/2020 9:00	3/23/2020 10:00	1550.5
3/23/2020 10:00	3/23/2020 11:00	1480.0
3/23/2020 11:00	3/23/2020 12:00	1435.5
3/23/2020 12:00	3/23/2020 13:00	1414.5
3/23/2020 13:00	3/23/2020 14:00	1361.1
3/23/2020 14:00	3/23/2020 15:00	1281.5
3/23/2020 15:00	3/23/2020 16:00	1269.0
3/23/2020 16:00	3/23/2020 17:00	1264.6
3/23/2020 17:00	3/23/2020 18:00	1239.8
3/23/2020 18:00	3/23/2020 19:00	1188.4
3/23/2020 19:00	3/23/2020 20:00	1211.9
3/23/2020 20:00	3/23/2020 21:00	1222.5
3/23/2020 21:00	3/23/2020 22:00	1161.5
3/23/2020 22:00	3/23/2020 23:00	1111.7
3/23/2020 23:00	3/24/2020 0:00	1111.0
3/24/2020 0:00	3/24/2020 1:00	1096.0
3/24/2020 1:00	3/24/2020 2:00	1044.5
3/24/2020 2:00	3/24/2020 3:00	954.6
3/24/2020 3:00	3/24/2020 4:00	919.0
3/24/2020 4:00	3/24/2020 5:00	910.7
3/24/2020 5:00	3/24/2020 6:00	975.0
3/24/2020 6:00	3/24/2020 7:00	1035.1
3/24/2020 7:00	3/24/2020 8:00	1129.2
3/24/2020 8:00	3/24/2020 9:00	1223.6
3/24/2020 9:00	3/24/2020 10:00	1251.0
3/24/2020 10:00	3/24/2020 11:00	1199.0
3/24/2020 11:00	3/24/2020 12:00	1178.3
3/24/2020 12:00	3/24/2020 13:00	1174.2
3/24/2020 13:00	3/24/2020 14:00	1138.7
3/24/2020 14:00	3/24/2020 15:00	1053.3
3/24/2020 15:00	3/24/2020 16:00	976.5
3/24/2020 16:00	3/24/2020 17:00	975.8
3/24/2020 17:00	3/24/2020 18:00	1001.0
3/24/2020 18:00	3/24/2020 19:00	1012.9
3/24/2020 19:00	3/24/2020 20:00	1028.3
3/24/2020 20:00	3/24/2020 21:00	1041.0
3/24/2020 21:00	3/24/2020 22:00	997.3
3/24/2020 22:00	3/24/2020 23:00	957.6
3/24/2020 23:00	3/25/2020 0:00	957.3
3/25/2020 0:00	3/25/2020 1:00	1034.9
3/25/2020 1:00	3/25/2020 2:00	1042.2
3/25/2020 2:00	3/25/2020 3:00	1037.1
3/25/2020 3:00	3/25/2020 4:00	1009.2
3/25/2020 4:00	3/25/2020 5:00	992.7

Start Time	End Time	ANL_MW
3/25/2020 5:00	3/25/2020 6:00	1068.2
3/25/2020 6:00	3/25/2020 7:00	1118.8
3/25/2020 7:00	3/25/2020 8:00	1226.8
3/25/2020 8:00	3/25/2020 9:00	1298.5
3/25/2020 9:00	3/25/2020 10:00	1290.1
3/25/2020 10:00	3/25/2020 11:00	1277.5
3/25/2020 11:00	3/25/2020 12:00	1266.6
3/25/2020 12:00	3/25/2020 13:00	1257.6
3/25/2020 13:00	3/25/2020 14:00	1186.9
3/25/2020 14:00	3/25/2020 15:00	1136.6
3/25/2020 15:00	3/25/2020 16:00	1092.3
3/25/2020 16:00	3/25/2020 17:00	1114.6
3/25/2020 17:00	3/25/2020 18:00	1170.9
3/25/2020 18:00	3/25/2020 19:00	1168.7
3/25/2020 19:00	3/25/2020 20:00	1215.2
3/25/2020 20:00	3/25/2020 21:00	1281.5
3/25/2020 21:00	3/25/2020 22:00	1262.0
3/25/2020 22:00	3/25/2020 23:00	1171.0
3/25/2020 23:00	3/26/2020 0:00	1133.5
3/26/2020 0:00	3/26/2020 1:00	1076.4
3/26/2020 1:00	3/26/2020 2:00	1052.6
3/26/2020 2:00	3/26/2020 3:00	1001.9
3/26/2020 3:00	3/26/2020 4:00	983.1
3/26/2020 4:00	3/26/2020 5:00	1015.3
3/26/2020 5:00	3/26/2020 6:00	1036.6
3/26/2020 6:00	3/26/2020 7:00	1053.5
3/26/2020 7:00	3/26/2020 8:00	1127.4
3/26/2020 8:00	3/26/2020 9:00	1189.3
3/26/2020 9:00	3/26/2020 10:00	1241.7
3/26/2020 10:00	3/26/2020 11:00	1280.1
3/26/2020 11:00	3/26/2020 12:00	1291.1
3/26/2020 12:00	3/26/2020 13:00	1299.9
3/26/2020 13:00	3/26/2020 14:00	1228.9
3/26/2020 14:00	3/26/2020 15:00	1138.0
3/26/2020 15:00	3/26/2020 16:00	1073.9
3/26/2020 16:00	3/26/2020 17:00	1073.2
3/26/2020 17:00	3/26/2020 18:00	1082.0
3/26/2020 18:00	3/26/2020 19:00	1052.1
3/26/2020 19:00	3/26/2020 20:00	1075.1
3/26/2020 20:00	3/26/2020 21:00	1050.7
3/26/2020 21:00	3/26/2020 22:00	1006.5
3/26/2020 22:00	3/26/2020 23:00	999.3
3/26/2020 23:00	3/27/2020 0:00	958.9
3/27/2020 0:00	3/27/2020 1:00	993.5
3/27/2020 1:00	3/27/2020 2:00	985.8
3/27/2020 2:00	3/27/2020 3:00	968.1
3/27/2020 3:00	3/27/2020 4:00	1002.2
3/27/2020 4:00	3/27/2020 5:00	1043.7
3/27/2020 5:00	3/27/2020 6:00	1091.4
3/27/2020 6:00	3/27/2020 7:00	1170.2
3/27/2020 7:00	3/27/2020 8:00	1194.1
3/27/2020 8:00	3/27/2020 9:00	1268.8
3/27/2020 9:00	3/27/2020 10:00	1331.9
3/27/2020 10:00	3/27/2020 11:00	1355.0
3/27/2020 11:00	3/27/2020 12:00	1358.8
3/27/2020 12:00	3/27/2020 13:00	1358.0
3/27/2020 13:00	3/27/2020 14:00	1328.0
3/27/2020 14:00	3/27/2020 15:00	1269.5
3/27/2020 15:00	3/27/2020 16:00	1213.5
3/27/2020 16:00	3/27/2020 17:00	1224.0
3/27/2020 17:00	3/27/2020 18:00	1234.9
3/27/2020 18:00	3/27/2020 19:00	1213.6
3/27/2020 19:00	3/27/2020 20:00	1215.0
3/27/2020 20:00	3/27/2020 21:00	1246.8
3/27/2020 21:00	3/27/2020 22:00	1157.9
3/27/2020 22:00	3/27/2020 23:00	1058.6
3/27/2020 23:00	3/28/2020 0:00	1018.1
3/28/2020 0:00	3/28/2020 1:00	1044.7
3/28/2020 1:00	3/28/2020 2:00	984.3
3/28/2020 2:00	3/28/2020 3:00	903.4

Start Time	End Time	ANL_MW
3/28/2020 3:00	3/28/2020 4:00	868.0
3/28/2020 4:00	3/28/2020 5:00	862.7
3/28/2020 5:00	3/28/2020 6:00	885.1
3/28/2020 6:00	3/28/2020 7:00	912.4
3/28/2020 7:00	3/28/2020 8:00	947.1
3/28/2020 8:00	3/28/2020 9:00	1009.4
3/28/2020 9:00	3/28/2020 10:00	1054.8
3/28/2020 10:00	3/28/2020 11:00	1081.2
3/28/2020 11:00	3/28/2020 12:00	1082.7
3/28/2020 12:00	3/28/2020 13:00	1074.4
3/28/2020 13:00	3/28/2020 14:00	1042.2
3/28/2020 14:00	3/28/2020 15:00	981.6
3/28/2020 15:00	3/28/2020 16:00	915.0
3/28/2020 16:00	3/28/2020 17:00	972.5
3/28/2020 17:00	3/28/2020 18:00	1035.2
3/28/2020 18:00	3/28/2020 19:00	1088.7
3/28/2020 19:00	3/28/2020 20:00	1162.6
3/28/2020 20:00	3/28/2020 21:00	1198.2
3/28/2020 21:00	3/28/2020 22:00	1170.2
3/28/2020 22:00	3/28/2020 23:00	1108.0
3/28/2020 23:00	3/29/2020 0:00	1064.1
3/29/2020 0:00	3/29/2020 1:00	1037.8
3/29/2020 1:00	3/29/2020 2:00	1036.9
3/29/2020 2:00	3/29/2020 3:00	1059.9
3/29/2020 3:00	3/29/2020 4:00	1067.9
3/29/2020 4:00	3/29/2020 5:00	1115.2
3/29/2020 5:00	3/29/2020 6:00	1152.9
3/29/2020 6:00	3/29/2020 7:00	1205.5
3/29/2020 7:00	3/29/2020 8:00	1251.3
3/29/2020 8:00	3/29/2020 9:00	1280.5
3/29/2020 9:00	3/29/2020 10:00	1282.9
3/29/2020 10:00	3/29/2020 11:00	1268.4
3/29/2020 11:00	3/29/2020 12:00	1239.4
3/29/2020 12:00	3/29/2020 13:00	1141.2
3/29/2020 13:00	3/29/2020 14:00	1072.3
3/29/2020 14:00	3/29/2020 15:00	1001.7
3/29/2020 15:00	3/29/2020 16:00	990.4
3/29/2020 16:00	3/29/2020 17:00	1020.3
3/29/2020 17:00	3/29/2020 18:00	1080.8
3/29/2020 18:00	3/29/2020 19:00	1100.5
3/29/2020 19:00	3/29/2020 20:00	1116.4
3/29/2020 20:00	3/29/2020 21:00	1109.8
3/29/2020 21:00	3/29/2020 22:00	1076.2
3/29/2020 22:00	3/29/2020 23:00	1009.7
3/29/2020 23:00	3/30/2020 0:00	982.6
3/30/2020 0:00	3/30/2020 1:00	1030.0
3/30/2020 1:00	3/30/2020 2:00	1015.2
3/30/2020 2:00	3/30/2020 3:00	1008.1
3/30/2020 3:00	3/30/2020 4:00	1045.8
3/30/2020 4:00	3/30/2020 5:00	1090.2
3/30/2020 5:00	3/30/2020 6:00	1140.5
3/30/2020 6:00	3/30/2020 7:00	1165.3
3/30/2020 7:00	3/30/2020 8:00	1232.9
3/30/2020 8:00	3/30/2020 9:00	1321.4
3/30/2020 9:00	3/30/2020 10:00	1379.1
3/30/2020 10:00	3/30/2020 11:00	1363.9
3/30/2020 11:00	3/30/2020 12:00	1322.1
3/30/2020 12:00	3/30/2020 13:00	1315.8
3/30/2020 13:00	3/30/2020 14:00	1236.8
3/30/2020 14:00	3/30/2020 15:00	1141.1
3/30/2020 15:00	3/30/2020 16:00	1125.9
3/30/2020 16:00	3/30/2020 17:00	1145.3
3/30/2020 17:00	3/30/2020 18:00	1117.6
3/30/2020 18:00	3/30/2020 19:00	1070.1
3/30/2020 19:00	3/30/2020 20:00	1076.5
3/30/2020 20:00	3/30/2020 21:00	1070.7
3/30/2020 21:00	3/30/2020 22:00	1060.9
3/30/2020 22:00	3/30/2020 23:00	1035.8
3/30/2020 23:00	3/31/2020 0:00	1019.5
3/31/2020 0:00	3/31/2020 1:00	1028.8

Start Time	End Time	ANL_MW
3/31/2020 1:00	3/31/2020 2:00	1011.7
3/31/2020 2:00	3/31/2020 3:00	967.7
3/31/2020 3:00	3/31/2020 4:00	952.8
3/31/2020 4:00	3/31/2020 5:00	937.8
3/31/2020 5:00	3/31/2020 6:00	974.5
3/31/2020 6:00	3/31/2020 7:00	1043.3
3/31/2020 7:00	3/31/2020 8:00	1096.4
3/31/2020 8:00	3/31/2020 9:00	1157.9
3/31/2020 9:00	3/31/2020 10:00	1146.9
3/31/2020 10:00	3/31/2020 11:00	1147.1
3/31/2020 11:00	3/31/2020 12:00	1214.5
3/31/2020 12:00	3/31/2020 13:00	1248.6
3/31/2020 13:00	3/31/2020 14:00	1220.0
3/31/2020 14:00	3/31/2020 15:00	1119.5
3/31/2020 15:00	3/31/2020 16:00	1102.7
3/31/2020 16:00	3/31/2020 17:00	1143.0
3/31/2020 17:00	3/31/2020 18:00	1188.2
3/31/2020 18:00	3/31/2020 19:00	1179.5
3/31/2020 19:00	3/31/2020 20:00	1227.9
3/31/2020 20:00	3/31/2020 21:00	1244.4
3/31/2020 21:00	3/31/2020 22:00	1212.7
3/31/2020 22:00	3/31/2020 23:00	1238.0
3/31/2020 23:00	4/1/2020 0:00	1243.3
4/1/2020 0:00	4/1/2020 1:00	1263.9
4/1/2020 1:00	4/1/2020 2:00	1208.3
4/1/2020 2:00	4/1/2020 3:00	1169.7
4/1/2020 3:00	4/1/2020 4:00	1147.5
4/1/2020 4:00	4/1/2020 5:00	1138.4
4/1/2020 5:00	4/1/2020 6:00	1149.5
4/1/2020 6:00	4/1/2020 7:00	1125.9
4/1/2020 7:00	4/1/2020 8:00	1181.7
4/1/2020 8:00	4/1/2020 9:00	1250.0
4/1/2020 9:00	4/1/2020 10:00	1288.9
4/1/2020 10:00	4/1/2020 11:00	1289.6
4/1/2020 11:00	4/1/2020 12:00	1265.7
4/1/2020 12:00	4/1/2020 13:00	1255.3
4/1/2020 13:00	4/1/2020 14:00	1223.1
4/1/2020 14:00	4/1/2020 15:00	1189.0
4/1/2020 15:00	4/1/2020 16:00	1152.9
4/1/2020 16:00	4/1/2020 17:00	1153.9
4/1/2020 17:00	4/1/2020 18:00	1112.4
4/1/2020 18:00	4/1/2020 19:00	1037.1
4/1/2020 19:00	4/1/2020 20:00	1016.3
4/1/2020 20:00	4/1/2020 21:00	984.5
4/1/2020 21:00	4/1/2020 22:00	905.8
4/1/2020 22:00	4/1/2020 23:00	865.5
4/1/2020 23:00	4/2/2020 0:00	860.5
4/2/2020 0:00	4/2/2020 1:00	859.7
4/2/2020 1:00	4/2/2020 2:00	794.1
4/2/2020 2:00	4/2/2020 3:00	704.6
4/2/2020 3:00	4/2/2020 4:00	644.7
4/2/2020 4:00	4/2/2020 5:00	642.6
4/2/2020 5:00	4/2/2020 6:00	657.2
4/2/2020 6:00	4/2/2020 7:00	735.4
4/2/2020 7:00	4/2/2020 8:00	810.7
4/2/2020 8:00	4/2/2020 9:00	884.0
4/2/2020 9:00	4/2/2020 10:00	925.6
4/2/2020 10:00	4/2/2020 11:00	960.0
4/2/2020 11:00	4/2/2020 12:00	915.6
4/2/2020 12:00	4/2/2020 13:00	926.1
4/2/2020 13:00	4/2/2020 14:00	829.1
4/2/2020 14:00	4/2/2020 15:00	782.6
4/2/2020 15:00	4/2/2020 16:00	767.2
4/2/2020 16:00	4/2/2020 17:00	795.4
4/2/2020 17:00	4/2/2020 18:00	791.6
4/2/2020 18:00	4/2/2020 19:00	772.4
4/2/2020 19:00	4/2/2020 20:00	758.9
4/2/2020 20:00	4/2/2020 21:00	743.8
4/2/2020 21:00	4/2/2020 22:00	718.5
4/2/2020 22:00	4/2/2020 23:00	733.0

Start Time	End Time	ANL_MW
4/2/2020 23:00	4/3/2020 0:00	750.9
4/3/2020 0:00	4/3/2020 1:00	740.7
4/3/2020 1:00	4/3/2020 2:00	685.5
4/3/2020 2:00	4/3/2020 3:00	607.3
4/3/2020 3:00	4/3/2020 4:00	573.5
4/3/2020 4:00	4/3/2020 5:00	579.8
4/3/2020 5:00	4/3/2020 6:00	604.7
4/3/2020 6:00	4/3/2020 7:00	651.8
4/3/2020 7:00	4/3/2020 8:00	717.5
4/3/2020 8:00	4/3/2020 9:00	795.4
4/3/2020 9:00	4/3/2020 10:00	830.7
4/3/2020 10:00	4/3/2020 11:00	795.8
4/3/2020 11:00	4/3/2020 12:00	796.1
4/3/2020 12:00	4/3/2020 13:00	822.2
4/3/2020 13:00	4/3/2020 14:00	803.5
4/3/2020 14:00	4/3/2020 15:00	749.0
4/3/2020 15:00	4/3/2020 16:00	736.7
4/3/2020 16:00	4/3/2020 17:00	750.8
4/3/2020 17:00	4/3/2020 18:00	778.1
4/3/2020 18:00	4/3/2020 19:00	745.0
4/3/2020 19:00	4/3/2020 20:00	764.4
4/3/2020 20:00	4/3/2020 21:00	835.7
4/3/2020 21:00	4/3/2020 22:00	814.4
4/3/2020 22:00	4/3/2020 23:00	743.3
4/3/2020 23:00	4/4/2020 0:00	765.1
4/4/2020 0:00	4/4/2020 1:00	780.4
4/4/2020 1:00	4/4/2020 2:00	814.2
4/4/2020 2:00	4/4/2020 3:00	789.1
4/4/2020 3:00	4/4/2020 4:00	828.1
4/4/2020 4:00	4/4/2020 5:00	850.2
4/4/2020 5:00	4/4/2020 6:00	879.9
4/4/2020 6:00	4/4/2020 7:00	922.1
4/4/2020 7:00	4/4/2020 8:00	1014.4
4/4/2020 8:00	4/4/2020 9:00	1109.7
4/4/2020 9:00	4/4/2020 10:00	1187.3
4/4/2020 10:00	4/4/2020 11:00	1201.9
4/4/2020 11:00	4/4/2020 12:00	1227.1
4/4/2020 12:00	4/4/2020 13:00	1226.9
4/4/2020 13:00	4/4/2020 14:00	1187.5
4/4/2020 14:00	4/4/2020 15:00	1161.0
4/4/2020 15:00	4/4/2020 16:00	1176.3
4/4/2020 16:00	4/4/2020 17:00	1249.3
4/4/2020 17:00	4/4/2020 18:00	1308.2
4/4/2020 18:00	4/4/2020 19:00	1253.3
4/4/2020 19:00	4/4/2020 20:00	1257.8
4/4/2020 20:00	4/4/2020 21:00	1266.5
4/4/2020 21:00	4/4/2020 22:00	1225.7
4/4/2020 22:00	4/4/2020 23:00	1180.6
4/4/2020 23:00	4/5/2020 0:00	1149.6
4/5/2020 0:00	4/5/2020 1:00	1128.5
4/5/2020 1:00	4/5/2020 2:00	1107.2
4/5/2020 2:00	4/5/2020 3:00	1101.6
4/5/2020 3:00	4/5/2020 4:00	1108.7
4/5/2020 4:00	4/5/2020 5:00	1110.0
4/5/2020 5:00	4/5/2020 6:00	1130.5
4/5/2020 6:00	4/5/2020 7:00	1160.5
4/5/2020 7:00	4/5/2020 8:00	1206.4
4/5/2020 8:00	4/5/2020 9:00	1274.3
4/5/2020 9:00	4/5/2020 10:00	1321.9
4/5/2020 10:00	4/5/2020 11:00	1296.0
4/5/2020 11:00	4/5/2020 12:00	1267.5
4/5/2020 12:00	4/5/2020 13:00	1239.1
4/5/2020 13:00	4/5/2020 14:00	1184.1
4/5/2020 14:00	4/5/2020 15:00	1119.0
4/5/2020 15:00	4/5/2020 16:00	1100.1
4/5/2020 16:00	4/5/2020 17:00	1135.2
4/5/2020 17:00	4/5/2020 18:00	1175.9
4/5/2020 18:00	4/5/2020 19:00	1162.8
4/5/2020 19:00	4/5/2020 20:00	1176.9
4/5/2020 20:00	4/5/2020 21:00	1189.5

Start Time	End Time	ANL_MW
4/5/2020 21:00	4/5/2020 22:00	1124.8
4/5/2020 22:00	4/5/2020 23:00	1088.3
4/5/2020 23:00	4/6/2020 0:00	1095.7
4/6/2020 0:00	4/6/2020 1:00	1029.5
4/6/2020 1:00	4/6/2020 2:00	971.3
4/6/2020 2:00	4/6/2020 3:00	939.4
4/6/2020 3:00	4/6/2020 4:00	934.3
4/6/2020 4:00	4/6/2020 5:00	928.0
4/6/2020 5:00	4/6/2020 6:00	938.6
4/6/2020 6:00	4/6/2020 7:00	1002.5
4/6/2020 7:00	4/6/2020 8:00	1045.5
4/6/2020 8:00	4/6/2020 9:00	1127.3
4/6/2020 9:00	4/6/2020 10:00	1203.6
4/6/2020 10:00	4/6/2020 11:00	1262.8
4/6/2020 11:00	4/6/2020 12:00	1247.3
4/6/2020 12:00	4/6/2020 13:00	1205.2
4/6/2020 13:00	4/6/2020 14:00	1092.8
4/6/2020 14:00	4/6/2020 15:00	1025.1
4/6/2020 15:00	4/6/2020 16:00	970.3
4/6/2020 16:00	4/6/2020 17:00	995.3
4/6/2020 17:00	4/6/2020 18:00	998.3
4/6/2020 18:00	4/6/2020 19:00	970.5
4/6/2020 19:00	4/6/2020 20:00	996.7
4/6/2020 20:00	4/6/2020 21:00	1096.4
4/6/2020 21:00	4/6/2020 22:00	1114.8
4/6/2020 22:00	4/6/2020 23:00	1063.9
4/6/2020 23:00	4/7/2020 0:00	986.0
4/7/2020 0:00	4/7/2020 1:00	913.0
4/7/2020 1:00	4/7/2020 2:00	933.4
4/7/2020 2:00	4/7/2020 3:00	963.5
4/7/2020 3:00	4/7/2020 4:00	964.8
4/7/2020 4:00	4/7/2020 5:00	982.0
4/7/2020 5:00	4/7/2020 6:00	1036.7
4/7/2020 6:00	4/7/2020 7:00	1076.1
4/7/2020 7:00	4/7/2020 8:00	1146.8
4/7/2020 8:00	4/7/2020 9:00	1209.9
4/7/2020 9:00	4/7/2020 10:00	1177.4
4/7/2020 10:00	4/7/2020 11:00	1159.6
4/7/2020 11:00	4/7/2020 12:00	1171.4
4/7/2020 12:00	4/7/2020 13:00	1164.7
4/7/2020 13:00	4/7/2020 14:00	1131.6
4/7/2020 14:00	4/7/2020 15:00	1098.4
4/7/2020 15:00	4/7/2020 16:00	1094.8
4/7/2020 16:00	4/7/2020 17:00	1163.5
4/7/2020 17:00	4/7/2020 18:00	1220.8
4/7/2020 18:00	4/7/2020 19:00	1233.1
4/7/2020 19:00	4/7/2020 20:00	1282.1
4/7/2020 20:00	4/7/2020 21:00	1340.7
4/7/2020 21:00	4/7/2020 22:00	1315.2
4/7/2020 22:00	4/7/2020 23:00	1238.0
4/7/2020 23:00	4/8/2020 0:00	1172.5
4/8/2020 0:00	4/8/2020 1:00	1171.5
4/8/2020 1:00	4/8/2020 2:00	1132.9
4/8/2020 2:00	4/8/2020 3:00	1106.9
4/8/2020 3:00	4/8/2020 4:00	1079.8
4/8/2020 4:00	4/8/2020 5:00	1083.6
4/8/2020 5:00	4/8/2020 6:00	1061.3
4/8/2020 6:00	4/8/2020 7:00	1130.4
4/8/2020 7:00	4/8/2020 8:00	1208.9
4/8/2020 8:00	4/8/2020 9:00	1299.1
4/8/2020 9:00	4/8/2020 10:00	1304.6
4/8/2020 10:00	4/8/2020 11:00	1279.4
4/8/2020 11:00	4/8/2020 12:00	1248.7
4/8/2020 12:00	4/8/2020 13:00	1243.7
4/8/2020 13:00	4/8/2020 14:00	1208.8
4/8/2020 14:00	4/8/2020 15:00	1182.8
4/8/2020 15:00	4/8/2020 16:00	1141.1
4/8/2020 16:00	4/8/2020 17:00	1194.6
4/8/2020 17:00	4/8/2020 18:00	1221.9
4/8/2020 18:00	4/8/2020 19:00	1182.6

Start Time	End Time	ANL_MW
4/8/2020 19:00	4/8/2020 20:00	1177.9
4/8/2020 20:00	4/8/2020 21:00	1205.8
4/8/2020 21:00	4/8/2020 22:00	1197.7
4/8/2020 22:00	4/8/2020 23:00	1159.6
4/8/2020 23:00	4/9/2020 0:00	1176.9
4/9/2020 0:00	4/9/2020 1:00	1188.9
4/9/2020 1:00	4/9/2020 2:00	1194.7
4/9/2020 2:00	4/9/2020 3:00	1196.3
4/9/2020 3:00	4/9/2020 4:00	1195.6
4/9/2020 4:00	4/9/2020 5:00	1218.0
4/9/2020 5:00	4/9/2020 6:00	1272.3
4/9/2020 6:00	4/9/2020 7:00	1346.9
4/9/2020 7:00	4/9/2020 8:00	1365.0
4/9/2020 8:00	4/9/2020 9:00	1351.7
4/9/2020 9:00	4/9/2020 10:00	1329.9
4/9/2020 10:00	4/9/2020 11:00	1292.6
4/9/2020 11:00	4/9/2020 12:00	1216.7
4/9/2020 12:00	4/9/2020 13:00	1197.8
4/9/2020 13:00	4/9/2020 14:00	1116.5
4/9/2020 14:00	4/9/2020 15:00	1077.7
4/9/2020 15:00	4/9/2020 16:00	1040.8
4/9/2020 16:00	4/9/2020 17:00	1053.2
4/9/2020 17:00	4/9/2020 18:00	1038.1
4/9/2020 18:00	4/9/2020 19:00	1072.6
4/9/2020 19:00	4/9/2020 20:00	1082.1
4/9/2020 20:00	4/9/2020 21:00	1086.1
4/9/2020 21:00	4/9/2020 22:00	987.5
4/9/2020 22:00	4/9/2020 23:00	854.9
4/9/2020 23:00	4/10/2020 0:00	820.4
4/10/2020 0:00	4/10/2020 1:00	796.0
4/10/2020 1:00	4/10/2020 2:00	776.7
4/10/2020 2:00	4/10/2020 3:00	742.8
4/10/2020 3:00	4/10/2020 4:00	712.7
4/10/2020 4:00	4/10/2020 5:00	694.4
4/10/2020 5:00	4/10/2020 6:00	684.3
4/10/2020 6:00	4/10/2020 7:00	712.7
4/10/2020 7:00	4/10/2020 8:00	749.6
4/10/2020 8:00	4/10/2020 9:00	742.4
4/10/2020 9:00	4/10/2020 10:00	851.6
4/10/2020 10:00	4/10/2020 11:00	900.9
4/10/2020 11:00	4/10/2020 12:00	910.4
4/10/2020 12:00	4/10/2020 13:00	888.6
4/10/2020 13:00	4/10/2020 14:00	843.6
4/10/2020 14:00	4/10/2020 15:00	747.6
4/10/2020 15:00	4/10/2020 16:00	731.0
4/10/2020 16:00	4/10/2020 17:00	767.4
4/10/2020 17:00	4/10/2020 18:00	780.0
4/10/2020 18:00	4/10/2020 19:00	754.3
4/10/2020 19:00	4/10/2020 20:00	766.6
4/10/2020 20:00	4/10/2020 21:00	808.1
4/10/2020 21:00	4/10/2020 22:00	817.7
4/10/2020 22:00	4/10/2020 23:00	840.7
4/10/2020 23:00	4/11/2020 0:00	824.1
4/11/2020 0:00	4/11/2020 1:00	796.8
4/11/2020 1:00	4/11/2020 2:00	767.2
4/11/2020 2:00	4/11/2020 3:00	734.8
4/11/2020 3:00	4/11/2020 4:00	717.5
4/11/2020 4:00	4/11/2020 5:00	725.3
4/11/2020 5:00	4/11/2020 6:00	742.5
4/11/2020 6:00	4/11/2020 7:00	782.6
4/11/2020 7:00	4/11/2020 8:00	843.8
4/11/2020 8:00	4/11/2020 9:00	884.3
4/11/2020 9:00	4/11/2020 10:00	885.1
4/11/2020 10:00	4/11/2020 11:00	835.2
4/11/2020 11:00	4/11/2020 12:00	820.4
4/11/2020 12:00	4/11/2020 13:00	817.8
4/11/2020 13:00	4/11/2020 14:00	806.8
4/11/2020 14:00	4/11/2020 15:00	793.0
4/11/2020 15:00	4/11/2020 16:00	813.5
4/11/2020 16:00	4/11/2020 17:00	887.2

Start Time	End Time	ANL_MW
4/11/2020 17:00	4/11/2020 18:00	955.7
4/11/2020 18:00	4/11/2020 19:00	996.5
4/11/2020 19:00	4/11/2020 20:00	1039.8
4/11/2020 20:00	4/11/2020 21:00	1079.0
4/11/2020 21:00	4/11/2020 22:00	1055.3
4/11/2020 22:00	4/11/2020 23:00	966.5
4/11/2020 23:00	4/12/2020 0:00	901.8
4/12/2020 0:00	4/12/2020 1:00	859.9
4/12/2020 1:00	4/12/2020 2:00	825.1
4/12/2020 2:00	4/12/2020 3:00	777.0
4/12/2020 3:00	4/12/2020 4:00	750.9
4/12/2020 4:00	4/12/2020 5:00	752.5
4/12/2020 5:00	4/12/2020 6:00	758.9
4/12/2020 6:00	4/12/2020 7:00	768.6
4/12/2020 7:00	4/12/2020 8:00	848.8
4/12/2020 8:00	4/12/2020 9:00	885.1
4/12/2020 9:00	4/12/2020 10:00	906.0
4/12/2020 10:00	4/12/2020 11:00	945.2
4/12/2020 11:00	4/12/2020 12:00	940.6
4/12/2020 12:00	4/12/2020 13:00	902.4
4/12/2020 13:00	4/12/2020 14:00	853.9
4/12/2020 14:00	4/12/2020 15:00	812.5
4/12/2020 15:00	4/12/2020 16:00	809.7
4/12/2020 16:00	4/12/2020 17:00	827.9
4/12/2020 17:00	4/12/2020 18:00	788.6
4/12/2020 18:00	4/12/2020 19:00	727.4
4/12/2020 19:00	4/12/2020 20:00	802.7
4/12/2020 20:00	4/12/2020 21:00	840.4
4/12/2020 21:00	4/12/2020 22:00	750.5
4/12/2020 22:00	4/12/2020 23:00	666.1
4/12/2020 23:00	4/13/2020 0:00	606.4
4/13/2020 0:00	4/13/2020 1:00	571.9
4/13/2020 1:00	4/13/2020 2:00	554.7
4/13/2020 2:00	4/13/2020 3:00	571.0
4/13/2020 3:00	4/13/2020 4:00	602.6
4/13/2020 4:00	4/13/2020 5:00	639.4
4/13/2020 5:00	4/13/2020 6:00	715.4
4/13/2020 6:00	4/13/2020 7:00	785.9
4/13/2020 7:00	4/13/2020 8:00	865.4
4/13/2020 8:00	4/13/2020 9:00	967.7
4/13/2020 9:00	4/13/2020 10:00	998.3
4/13/2020 10:00	4/13/2020 11:00	988.4
4/13/2020 11:00	4/13/2020 12:00	959.0
4/13/2020 12:00	4/13/2020 13:00	969.5
4/13/2020 13:00	4/13/2020 14:00	921.1
4/13/2020 14:00	4/13/2020 15:00	848.0
4/13/2020 15:00	4/13/2020 16:00	737.5
4/13/2020 16:00	4/13/2020 17:00	734.9
4/13/2020 17:00	4/13/2020 18:00	731.2
4/13/2020 18:00	4/13/2020 19:00	682.8
4/13/2020 19:00	4/13/2020 20:00	652.0
4/13/2020 20:00	4/13/2020 21:00	641.3
4/13/2020 21:00	4/13/2020 22:00	626.2
4/13/2020 22:00	4/13/2020 23:00	555.6
4/13/2020 23:00	4/14/2020 0:00	523.3
4/14/2020 0:00	4/14/2020 1:00	501.7
4/14/2020 1:00	4/14/2020 2:00	534.1
4/14/2020 2:00	4/14/2020 3:00	492.2
4/14/2020 3:00	4/14/2020 4:00	455.9
4/14/2020 4:00	4/14/2020 5:00	445.8
4/14/2020 5:00	4/14/2020 6:00	461.1
4/14/2020 6:00	4/14/2020 7:00	519.6
4/14/2020 7:00	4/14/2020 8:00	610.3
4/14/2020 8:00	4/14/2020 9:00	721.3
4/14/2020 9:00	4/14/2020 10:00	813.3
4/14/2020 10:00	4/14/2020 11:00	872.9
4/14/2020 11:00	4/14/2020 12:00	869.6
4/14/2020 12:00	4/14/2020 13:00	779.0
4/14/2020 13:00	4/14/2020 14:00	708.8
4/14/2020 14:00	4/14/2020 15:00	683.7

Start Time	End Time	ANL_MW
4/14/2020 15:00	4/14/2020 16:00	697.0
4/14/2020 16:00	4/14/2020 17:00	750.9
4/14/2020 17:00	4/14/2020 18:00	831.9
4/14/2020 18:00	4/14/2020 19:00	847.0
4/14/2020 19:00	4/14/2020 20:00	852.6
4/14/2020 20:00	4/14/2020 21:00	847.0
4/14/2020 21:00	4/14/2020 22:00	808.3
4/14/2020 22:00	4/14/2020 23:00	775.0
4/14/2020 23:00	4/15/2020 0:00	747.3
4/15/2020 0:00	4/15/2020 1:00	774.7
4/15/2020 1:00	4/15/2020 2:00	786.7
4/15/2020 2:00	4/15/2020 3:00	751.0
4/15/2020 3:00	4/15/2020 4:00	736.7
4/15/2020 4:00	4/15/2020 5:00	747.3
4/15/2020 5:00	4/15/2020 6:00	819.2
4/15/2020 6:00	4/15/2020 7:00	927.8
4/15/2020 7:00	4/15/2020 8:00	1043.4
4/15/2020 8:00	4/15/2020 9:00	1145.0
4/15/2020 9:00	4/15/2020 10:00	1213.2
4/15/2020 10:00	4/15/2020 11:00	1251.7
4/15/2020 11:00	4/15/2020 12:00	1279.3
4/15/2020 12:00	4/15/2020 13:00	1297.3
4/15/2020 13:00	4/15/2020 14:00	1271.9
4/15/2020 14:00	4/15/2020 15:00	1244.5
4/15/2020 15:00	4/15/2020 16:00	1232.0
4/15/2020 16:00	4/15/2020 17:00	1246.1
4/15/2020 17:00	4/15/2020 18:00	1245.8
4/15/2020 18:00	4/15/2020 19:00	1195.2
4/15/2020 19:00	4/15/2020 20:00	1165.6
4/15/2020 20:00	4/15/2020 21:00	1154.0
4/15/2020 21:00	4/15/2020 22:00	1110.6
4/15/2020 22:00	4/15/2020 23:00	1012.4
4/15/2020 23:00	4/16/2020 0:00	933.8
4/16/2020 0:00	4/16/2020 1:00	848.2
4/16/2020 1:00	4/16/2020 2:00	831.9
4/16/2020 2:00	4/16/2020 3:00	767.1
4/16/2020 3:00	4/16/2020 4:00	750.9
4/16/2020 4:00	4/16/2020 5:00	742.1
4/16/2020 5:00	4/16/2020 6:00	761.7
4/16/2020 6:00	4/16/2020 7:00	810.0
4/16/2020 7:00	4/16/2020 8:00	881.5
4/16/2020 8:00	4/16/2020 9:00	894.0
4/16/2020 9:00	4/16/2020 10:00	867.7
4/16/2020 10:00	4/16/2020 11:00	860.2
4/16/2020 11:00	4/16/2020 12:00	828.9
4/16/2020 12:00	4/16/2020 13:00	846.4
4/16/2020 13:00	4/16/2020 14:00	843.3
4/16/2020 14:00	4/16/2020 15:00	867.3
4/16/2020 15:00	4/16/2020 16:00	899.4
4/16/2020 16:00	4/16/2020 17:00	955.7
4/16/2020 17:00	4/16/2020 18:00	1007.9
4/16/2020 18:00	4/16/2020 19:00	1009.0
4/16/2020 19:00	4/16/2020 20:00	1052.3
4/16/2020 20:00	4/16/2020 21:00	1109.6
4/16/2020 21:00	4/16/2020 22:00	1084.8
4/16/2020 22:00	4/16/2020 23:00	998.3
4/16/2020 23:00	4/17/2020 0:00	962.0
4/17/2020 0:00	4/17/2020 1:00	948.1
4/17/2020 1:00	4/17/2020 2:00	968.3
4/17/2020 2:00	4/17/2020 3:00	963.3
4/17/2020 3:00	4/17/2020 4:00	943.7
4/17/2020 4:00	4/17/2020 5:00	950.1
4/17/2020 5:00	4/17/2020 6:00	1026.9
4/17/2020 6:00	4/17/2020 7:00	1082.7
4/17/2020 7:00	4/17/2020 8:00	1094.7
4/17/2020 8:00	4/17/2020 9:00	1127.0
4/17/2020 9:00	4/17/2020 10:00	1062.2
4/17/2020 10:00	4/17/2020 11:00	1001.0
4/17/2020 11:00	4/17/2020 12:00	993.7
4/17/2020 12:00	4/17/2020 13:00	981.5

Start Time	End Time	ANL_MW
4/17/2020 13:00	4/17/2020 14:00	940.9
4/17/2020 14:00	4/17/2020 15:00	900.7
4/17/2020 15:00	4/17/2020 16:00	866.8
4/17/2020 16:00	4/17/2020 17:00	877.0
4/17/2020 17:00	4/17/2020 18:00	885.3
4/17/2020 18:00	4/17/2020 19:00	835.1
4/17/2020 19:00	4/17/2020 20:00	860.9
4/17/2020 20:00	4/17/2020 21:00	902.9
4/17/2020 21:00	4/17/2020 22:00	868.6
4/17/2020 22:00	4/17/2020 23:00	819.1
4/17/2020 23:00	4/18/2020 0:00	811.9
4/18/2020 0:00	4/18/2020 1:00	812.6
4/18/2020 1:00	4/18/2020 2:00	801.0
4/18/2020 2:00	4/18/2020 3:00	833.7
4/18/2020 3:00	4/18/2020 4:00	870.3
4/18/2020 4:00	4/18/2020 5:00	941.4
4/18/2020 5:00	4/18/2020 6:00	1010.5
4/18/2020 6:00	4/18/2020 7:00	1081.4
4/18/2020 7:00	4/18/2020 8:00	1115.2
4/18/2020 8:00	4/18/2020 9:00	1132.3
4/18/2020 9:00	4/18/2020 10:00	1158.6
4/18/2020 10:00	4/18/2020 11:00	1170.0
4/18/2020 11:00	4/18/2020 12:00	1170.4
4/18/2020 12:00	4/18/2020 13:00	1184.2
4/18/2020 13:00	4/18/2020 14:00	1142.3
4/18/2020 14:00	4/18/2020 15:00	1108.4
4/18/2020 15:00	4/18/2020 16:00	1081.1
4/18/2020 16:00	4/18/2020 17:00	1100.9
4/18/2020 17:00	4/18/2020 18:00	1109.1
4/18/2020 18:00	4/18/2020 19:00	1082.6
4/18/2020 19:00	4/18/2020 20:00	1079.9
4/18/2020 20:00	4/18/2020 21:00	1077.4
4/18/2020 21:00	4/18/2020 22:00	1035.2
4/18/2020 22:00	4/18/2020 23:00	925.9
4/18/2020 23:00	4/19/2020 0:00	853.1
4/19/2020 0:00	4/19/2020 1:00	758.6
4/19/2020 1:00	4/19/2020 2:00	672.1
4/19/2020 2:00	4/19/2020 3:00	616.7
4/19/2020 3:00	4/19/2020 4:00	566.4
4/19/2020 4:00	4/19/2020 5:00	564.9
4/19/2020 5:00	4/19/2020 6:00	565.2
4/19/2020 6:00	4/19/2020 7:00	558.2
4/19/2020 7:00	4/19/2020 8:00	666.5
4/19/2020 8:00	4/19/2020 9:00	689.4
4/19/2020 9:00	4/19/2020 10:00	690.3
4/19/2020 10:00	4/19/2020 11:00	712.4
4/19/2020 11:00	4/19/2020 12:00	712.4
4/19/2020 12:00	4/19/2020 13:00	714.5
4/19/2020 13:00	4/19/2020 14:00	691.3
4/19/2020 14:00	4/19/2020 15:00	681.1
4/19/2020 15:00	4/19/2020 16:00	684.3
4/19/2020 16:00	4/19/2020 17:00	714.4
4/19/2020 17:00	4/19/2020 18:00	784.8
4/19/2020 18:00	4/19/2020 19:00	804.1
4/19/2020 19:00	4/19/2020 20:00	889.3
4/19/2020 20:00	4/19/2020 21:00	948.8
4/19/2020 21:00	4/19/2020 22:00	896.0
4/19/2020 22:00	4/19/2020 23:00	776.2
4/19/2020 23:00	4/20/2020 0:00	674.1
4/20/2020 0:00	4/20/2020 1:00	649.8
4/20/2020 1:00	4/20/2020 2:00	621.2
4/20/2020 2:00	4/20/2020 3:00	636.2
4/20/2020 3:00	4/20/2020 4:00	671.3
4/20/2020 4:00	4/20/2020 5:00	707.9
4/20/2020 5:00	4/20/2020 6:00	734.4
4/20/2020 6:00	4/20/2020 7:00	798.8
4/20/2020 7:00	4/20/2020 8:00	882.3
4/20/2020 8:00	4/20/2020 9:00	1011.2
4/20/2020 9:00	4/20/2020 10:00	1058.7
4/20/2020 10:00	4/20/2020 11:00	1017.1

Start Time	End Time	ANL_MW
4/20/2020 11:00	4/20/2020 12:00	939.3
4/20/2020 12:00	4/20/2020 13:00	827.7
4/20/2020 13:00	4/20/2020 14:00	777.6
4/20/2020 14:00	4/20/2020 15:00	765.7
4/20/2020 15:00	4/20/2020 16:00	788.6
4/20/2020 16:00	4/20/2020 17:00	896.3
4/20/2020 17:00	4/20/2020 18:00	962.4
4/20/2020 18:00	4/20/2020 19:00	986.2
4/20/2020 19:00	4/20/2020 20:00	1005.8
4/20/2020 20:00	4/20/2020 21:00	982.5
4/20/2020 21:00	4/20/2020 22:00	913.0
4/20/2020 22:00	4/20/2020 23:00	783.5
4/20/2020 23:00	4/21/2020 0:00	739.8
4/21/2020 0:00	4/21/2020 1:00	759.4
4/21/2020 1:00	4/21/2020 2:00	726.3
4/21/2020 2:00	4/21/2020 3:00	709.4
4/21/2020 3:00	4/21/2020 4:00	712.0
4/21/2020 4:00	4/21/2020 5:00	719.1
4/21/2020 5:00	4/21/2020 6:00	756.9
4/21/2020 6:00	4/21/2020 7:00	854.7
4/21/2020 7:00	4/21/2020 8:00	960.5
4/21/2020 8:00	4/21/2020 9:00	1026.0
4/21/2020 9:00	4/21/2020 10:00	1061.8
4/21/2020 10:00	4/21/2020 11:00	1058.6
4/21/2020 11:00	4/21/2020 12:00	1061.1
4/21/2020 12:00	4/21/2020 13:00	1065.2
4/21/2020 13:00	4/21/2020 14:00	1032.7
4/21/2020 14:00	4/21/2020 15:00	988.9
4/21/2020 15:00	4/21/2020 16:00	965.5
4/21/2020 16:00	4/21/2020 17:00	968.8
4/21/2020 17:00	4/21/2020 18:00	974.5
4/21/2020 18:00	4/21/2020 19:00	930.4
4/21/2020 19:00	4/21/2020 20:00	872.1
4/21/2020 20:00	4/21/2020 21:00	834.8
4/21/2020 21:00	4/21/2020 22:00	774.9
4/21/2020 22:00	4/21/2020 23:00	729.6
4/21/2020 23:00	4/22/2020 0:00	634.8
4/22/2020 0:00	4/22/2020 1:00	650.5
4/22/2020 1:00	4/22/2020 2:00	611.3
4/22/2020 2:00	4/22/2020 3:00	602.6
4/22/2020 3:00	4/22/2020 4:00	597.9
4/22/2020 4:00	4/22/2020 5:00	599.2
4/22/2020 5:00	4/22/2020 6:00	585.1
4/22/2020 6:00	4/22/2020 7:00	622.0
4/22/2020 7:00	4/22/2020 8:00	684.4
4/22/2020 8:00	4/22/2020 9:00	772.1
4/22/2020 9:00	4/22/2020 10:00	805.6
4/22/2020 10:00	4/22/2020 11:00	830.5
4/22/2020 11:00	4/22/2020 12:00	856.6
4/22/2020 12:00	4/22/2020 13:00	870.2
4/22/2020 13:00	4/22/2020 14:00	890.9
4/22/2020 14:00	4/22/2020 15:00	883.7
4/22/2020 15:00	4/22/2020 16:00	892.7
4/22/2020 16:00	4/22/2020 17:00	909.7
4/22/2020 17:00	4/22/2020 18:00	913.5
4/22/2020 18:00	4/22/2020 19:00	888.0
4/22/2020 19:00	4/22/2020 20:00	934.4
4/22/2020 20:00	4/22/2020 21:00	966.8
4/22/2020 21:00	4/22/2020 22:00	931.6
4/22/2020 22:00	4/22/2020 23:00	929.6
4/22/2020 23:00	4/23/2020 0:00	884.3
4/23/2020 0:00	4/23/2020 1:00	846.5
4/23/2020 1:00	4/23/2020 2:00	847.0
4/23/2020 2:00	4/23/2020 3:00	863.1
4/23/2020 3:00	4/23/2020 4:00	862.9
4/23/2020 4:00	4/23/2020 5:00	878.3
4/23/2020 5:00	4/23/2020 6:00	933.2
4/23/2020 6:00	4/23/2020 7:00	1017.6
4/23/2020 7:00	4/23/2020 8:00	1087.6
4/23/2020 8:00	4/23/2020 9:00	1091.3

Start Time	End Time	ANL_MW
4/23/2020 9:00	4/23/2020 10:00	1032.2
4/23/2020 10:00	4/23/2020 11:00	985.7
4/23/2020 11:00	4/23/2020 12:00	949.0
4/23/2020 12:00	4/23/2020 13:00	946.9
4/23/2020 13:00	4/23/2020 14:00	901.7
4/23/2020 14:00	4/23/2020 15:00	846.1
4/23/2020 15:00	4/23/2020 16:00	801.4
4/23/2020 16:00	4/23/2020 17:00	817.0
4/23/2020 17:00	4/23/2020 18:00	804.6
4/23/2020 18:00	4/23/2020 19:00	756.1
4/23/2020 19:00	4/23/2020 20:00	772.0
4/23/2020 20:00	4/23/2020 21:00	914.8
4/23/2020 21:00	4/23/2020 22:00	943.9
4/23/2020 22:00	4/23/2020 23:00	858.8
4/23/2020 23:00	4/24/2020 0:00	824.3
4/24/2020 0:00	4/24/2020 1:00	873.7
4/24/2020 1:00	4/24/2020 2:00	874.6
4/24/2020 2:00	4/24/2020 3:00	860.1
4/24/2020 3:00	4/24/2020 4:00	861.2
4/24/2020 4:00	4/24/2020 5:00	877.7
4/24/2020 5:00	4/24/2020 6:00	873.1
4/24/2020 6:00	4/24/2020 7:00	941.1
4/24/2020 7:00	4/24/2020 8:00	1043.9
4/24/2020 8:00	4/24/2020 9:00	1143.8
4/24/2020 9:00	4/24/2020 10:00	1172.3
4/24/2020 10:00	4/24/2020 11:00	1116.8
4/24/2020 11:00	4/24/2020 12:00	1052.2
4/24/2020 12:00	4/24/2020 13:00	1084.7
4/24/2020 13:00	4/24/2020 14:00	1103.7
4/24/2020 14:00	4/24/2020 15:00	1077.5
4/24/2020 15:00	4/24/2020 16:00	1092.6
4/24/2020 16:00	4/24/2020 17:00	1128.1
4/24/2020 17:00	4/24/2020 18:00	1133.5
4/24/2020 18:00	4/24/2020 19:00	1142.3
4/24/2020 19:00	4/24/2020 20:00	1149.9
4/24/2020 20:00	4/24/2020 21:00	1167.9
4/24/2020 21:00	4/24/2020 22:00	1165.0
4/24/2020 22:00	4/24/2020 23:00	1096.2
4/24/2020 23:00	4/25/2020 0:00	1050.3
4/25/2020 0:00	4/25/2020 1:00	1006.9
4/25/2020 1:00	4/25/2020 2:00	956.8
4/25/2020 2:00	4/25/2020 3:00	923.1
4/25/2020 3:00	4/25/2020 4:00	824.9
4/25/2020 4:00	4/25/2020 5:00	846.0
4/25/2020 5:00	4/25/2020 6:00	881.4
4/25/2020 6:00	4/25/2020 7:00	952.9
4/25/2020 7:00	4/25/2020 8:00	1052.5
4/25/2020 8:00	4/25/2020 9:00	1078.2
4/25/2020 9:00	4/25/2020 10:00	1103.5
4/25/2020 10:00	4/25/2020 11:00	1091.0
4/25/2020 11:00	4/25/2020 12:00	1061.2
4/25/2020 12:00	4/25/2020 13:00	1007.0
4/25/2020 13:00	4/25/2020 14:00	952.3
4/25/2020 14:00	4/25/2020 15:00	889.2
4/25/2020 15:00	4/25/2020 16:00	872.0
4/25/2020 16:00	4/25/2020 17:00	894.4
4/25/2020 17:00	4/25/2020 18:00	938.1
4/25/2020 18:00	4/25/2020 19:00	966.6
4/25/2020 19:00	4/25/2020 20:00	1013.5
4/25/2020 20:00	4/25/2020 21:00	1070.7
4/25/2020 21:00	4/25/2020 22:00	1121.6
4/25/2020 22:00	4/25/2020 23:00	1064.4
4/25/2020 23:00	4/26/2020 0:00	1000.8
4/26/2020 0:00	4/26/2020 1:00	955.7
4/26/2020 1:00	4/26/2020 2:00	926.6
4/26/2020 2:00	4/26/2020 3:00	947.1
4/26/2020 3:00	4/26/2020 4:00	1008.9
4/26/2020 4:00	4/26/2020 5:00	1069.1
4/26/2020 5:00	4/26/2020 6:00	1055.1
4/26/2020 6:00	4/26/2020 7:00	1082.2

Start Time	End Time	ANL_MW
4/26/2020 7:00	4/26/2020 8:00	1103.5
4/26/2020 8:00	4/26/2020 9:00	1120.6
4/26/2020 9:00	4/26/2020 10:00	1133.4
4/26/2020 10:00	4/26/2020 11:00	1122.9
4/26/2020 11:00	4/26/2020 12:00	1106.2
4/26/2020 12:00	4/26/2020 13:00	1077.8
4/26/2020 13:00	4/26/2020 14:00	1009.0
4/26/2020 14:00	4/26/2020 15:00	940.0
4/26/2020 15:00	4/26/2020 16:00	917.0
4/26/2020 16:00	4/26/2020 17:00	978.6
4/26/2020 17:00	4/26/2020 18:00	1061.9
4/26/2020 18:00	4/26/2020 19:00	1057.1
4/26/2020 19:00	4/26/2020 20:00	1040.0
4/26/2020 20:00	4/26/2020 21:00	1030.7
4/26/2020 21:00	4/26/2020 22:00	997.8
4/26/2020 22:00	4/26/2020 23:00	928.1
4/26/2020 23:00	4/27/2020 0:00	887.8
4/27/2020 0:00	4/27/2020 1:00	842.8
4/27/2020 1:00	4/27/2020 2:00	791.6
4/27/2020 2:00	4/27/2020 3:00	758.6
4/27/2020 3:00	4/27/2020 4:00	723.8
4/27/2020 4:00	4/27/2020 5:00	733.8
4/27/2020 5:00	4/27/2020 6:00	753.9
4/27/2020 6:00	4/27/2020 7:00	797.9
4/27/2020 7:00	4/27/2020 8:00	851.6
4/27/2020 8:00	4/27/2020 9:00	949.6
4/27/2020 9:00	4/27/2020 10:00	1036.3
4/27/2020 10:00	4/27/2020 11:00	1035.5
4/27/2020 11:00	4/27/2020 12:00	1031.7
4/27/2020 12:00	4/27/2020 13:00	973.6
4/27/2020 13:00	4/27/2020 14:00	954.1
4/27/2020 14:00	4/27/2020 15:00	915.6
4/27/2020 15:00	4/27/2020 16:00	916.6
4/27/2020 16:00	4/27/2020 17:00	969.2
4/27/2020 17:00	4/27/2020 18:00	995.4
4/27/2020 18:00	4/27/2020 19:00	908.4
4/27/2020 19:00	4/27/2020 20:00	869.3
4/27/2020 20:00	4/27/2020 21:00	843.2
4/27/2020 21:00	4/27/2020 22:00	785.6
4/27/2020 22:00	4/27/2020 23:00	777.0
4/27/2020 23:00	4/28/2020 0:00	765.8
4/28/2020 0:00	4/28/2020 1:00	745.0
4/28/2020 1:00	4/28/2020 2:00	715.8
4/28/2020 2:00	4/28/2020 3:00	690.1
4/28/2020 3:00	4/28/2020 4:00	662.0
4/28/2020 4:00	4/28/2020 5:00	646.4
4/28/2020 5:00	4/28/2020 6:00	716.7
4/28/2020 6:00	4/28/2020 7:00	796.5
4/28/2020 7:00	4/28/2020 8:00	872.7
4/28/2020 8:00	4/28/2020 9:00	979.5
4/28/2020 9:00	4/28/2020 10:00	994.4
4/28/2020 10:00	4/28/2020 11:00	1009.0
4/28/2020 11:00	4/28/2020 12:00	989.6
4/28/2020 12:00	4/28/2020 13:00	1034.2
4/28/2020 13:00	4/28/2020 14:00	1031.7
4/28/2020 14:00	4/28/2020 15:00	983.9
4/28/2020 15:00	4/28/2020 16:00	959.0
4/28/2020 16:00	4/28/2020 17:00	993.1
4/28/2020 17:00	4/28/2020 18:00	1037.4
4/28/2020 18:00	4/28/2020 19:00	992.3
4/28/2020 19:00	4/28/2020 20:00	969.6
4/28/2020 20:00	4/28/2020 21:00	954.6
4/28/2020 21:00	4/28/2020 22:00	917.2
4/28/2020 22:00	4/28/2020 23:00	848.5
4/28/2020 23:00	4/29/2020 0:00	825.7
4/29/2020 0:00	4/29/2020 1:00	800.6
4/29/2020 1:00	4/29/2020 2:00	792.1
4/29/2020 2:00	4/29/2020 3:00	770.9
4/29/2020 3:00	4/29/2020 4:00	762.4
4/29/2020 4:00	4/29/2020 5:00	778.4

Start Time	End Time	ANL_MW
4/29/2020 5:00	4/29/2020 6:00	809.0
4/29/2020 6:00	4/29/2020 7:00	904.5
4/29/2020 7:00	4/29/2020 8:00	977.0
4/29/2020 8:00	4/29/2020 9:00	1067.4
4/29/2020 9:00	4/29/2020 10:00	1104.8
4/29/2020 10:00	4/29/2020 11:00	1070.8
4/29/2020 11:00	4/29/2020 12:00	1078.3
4/29/2020 12:00	4/29/2020 13:00	1066.2
4/29/2020 13:00	4/29/2020 14:00	976.7
4/29/2020 14:00	4/29/2020 15:00	941.2
4/29/2020 15:00	4/29/2020 16:00	976.9
4/29/2020 16:00	4/29/2020 17:00	1037.8
4/29/2020 17:00	4/29/2020 18:00	1080.2
4/29/2020 18:00	4/29/2020 19:00	1084.5
4/29/2020 19:00	4/29/2020 20:00	1117.7
4/29/2020 20:00	4/29/2020 21:00	1173.0
4/29/2020 21:00	4/29/2020 22:00	1177.0
4/29/2020 22:00	4/29/2020 23:00	1139.5
4/29/2020 23:00	4/30/2020 0:00	1138.2
4/30/2020 0:00	4/30/2020 1:00	1138.5
4/30/2020 1:00	4/30/2020 2:00	1116.4
4/30/2020 2:00	4/30/2020 3:00	1103.2
4/30/2020 3:00	4/30/2020 4:00	1113.3
4/30/2020 4:00	4/30/2020 5:00	1132.7
4/30/2020 5:00	4/30/2020 6:00	1172.6
4/30/2020 6:00	4/30/2020 7:00	1224.8
4/30/2020 7:00	4/30/2020 8:00	1228.5
4/30/2020 8:00	4/30/2020 9:00	1246.3
4/30/2020 9:00	4/30/2020 10:00	1226.8
4/30/2020 10:00	4/30/2020 11:00	1227.4
4/30/2020 11:00	4/30/2020 12:00	1209.0
4/30/2020 12:00	4/30/2020 13:00	1177.2
4/30/2020 13:00	4/30/2020 14:00	1109.2
4/30/2020 14:00	4/30/2020 15:00	1051.6
4/30/2020 15:00	4/30/2020 16:00	1022.2
4/30/2020 16:00	4/30/2020 17:00	1012.4
4/30/2020 17:00	4/30/2020 18:00	1009.2
4/30/2020 18:00	4/30/2020 19:00	1006.0
4/30/2020 19:00	4/30/2020 20:00	1023.0
4/30/2020 20:00	4/30/2020 21:00	1021.3
4/30/2020 21:00	4/30/2020 22:00	965.1
4/30/2020 22:00	4/30/2020 23:00	832.7
4/30/2020 23:00	5/1/2020 0:00	811.3
5/1/2020 0:00	5/1/2020 1:00	782.3
5/1/2020 1:00	5/1/2020 2:00	721.4
5/1/2020 2:00	5/1/2020 3:00	683.1
5/1/2020 3:00	5/1/2020 4:00	666.9
5/1/2020 4:00	5/1/2020 5:00	687.4
5/1/2020 5:00	5/1/2020 6:00	715.2
5/1/2020 6:00	5/1/2020 7:00	782.2
5/1/2020 7:00	5/1/2020 8:00	856.2
5/1/2020 8:00	5/1/2020 9:00	868.8
5/1/2020 9:00	5/1/2020 10:00	859.2
5/1/2020 10:00	5/1/2020 11:00	799.0
5/1/2020 11:00	5/1/2020 12:00	775.6
5/1/2020 12:00	5/1/2020 13:00	745.6
5/1/2020 13:00	5/1/2020 14:00	695.7
5/1/2020 14:00	5/1/2020 15:00	705.3
5/1/2020 15:00	5/1/2020 16:00	693.3
5/1/2020 16:00	5/1/2020 17:00	741.9
5/1/2020 17:00	5/1/2020 18:00	796.1
5/1/2020 18:00	5/1/2020 19:00	773.8
5/1/2020 19:00	5/1/2020 20:00	724.3
5/1/2020 20:00	5/1/2020 21:00	693.4
5/1/2020 21:00	5/1/2020 22:00	658.6
5/1/2020 22:00	5/1/2020 23:00	578.9
5/1/2020 23:00	5/2/2020 0:00	532.8
5/2/2020 0:00	5/2/2020 1:00	488.7
5/2/2020 1:00	5/2/2020 2:00	463.0
5/2/2020 2:00	5/2/2020 3:00	457.2

Start Time	End Time	ANL_MW
5/2/2020 3:00	5/2/2020 4:00	507.5
5/2/2020 4:00	5/2/2020 5:00	558.6
5/2/2020 5:00	5/2/2020 6:00	639.7
5/2/2020 6:00	5/2/2020 7:00	746.7
5/2/2020 7:00	5/2/2020 8:00	838.5
5/2/2020 8:00	5/2/2020 9:00	847.3
5/2/2020 9:00	5/2/2020 10:00	924.0
5/2/2020 10:00	5/2/2020 11:00	959.2
5/2/2020 11:00	5/2/2020 12:00	957.9
5/2/2020 12:00	5/2/2020 13:00	962.0
5/2/2020 13:00	5/2/2020 14:00	945.5
5/2/2020 14:00	5/2/2020 15:00	886.8
5/2/2020 15:00	5/2/2020 16:00	840.9
5/2/2020 16:00	5/2/2020 17:00	920.0
5/2/2020 17:00	5/2/2020 18:00	906.1
5/2/2020 18:00	5/2/2020 19:00	859.4
5/2/2020 19:00	5/2/2020 20:00	869.7
5/2/2020 20:00	5/2/2020 21:00	905.5
5/2/2020 21:00	5/2/2020 22:00	854.0
5/2/2020 22:00	5/2/2020 23:00	753.1
5/2/2020 23:00	5/3/2020 0:00	664.5
5/3/2020 0:00	5/3/2020 1:00	569.1
5/3/2020 1:00	5/3/2020 2:00	546.2
5/3/2020 2:00	5/3/2020 3:00	567.7
5/3/2020 3:00	5/3/2020 4:00	579.2
5/3/2020 4:00	5/3/2020 5:00	590.1
5/3/2020 5:00	5/3/2020 6:00	606.8
5/3/2020 6:00	5/3/2020 7:00	683.8
5/3/2020 7:00	5/3/2020 8:00	753.9
5/3/2020 8:00	5/3/2020 9:00	866.2
5/3/2020 9:00	5/3/2020 10:00	922.6
5/3/2020 10:00	5/3/2020 11:00	906.5
5/3/2020 11:00	5/3/2020 12:00	893.5
5/3/2020 12:00	5/3/2020 13:00	885.5
5/3/2020 13:00	5/3/2020 14:00	872.9
5/3/2020 14:00	5/3/2020 15:00	858.2
5/3/2020 15:00	5/3/2020 16:00	867.0
5/3/2020 16:00	5/3/2020 17:00	926.2
5/3/2020 17:00	5/3/2020 18:00	980.4
5/3/2020 18:00	5/3/2020 19:00	992.3
5/3/2020 19:00	5/3/2020 20:00	983.2
5/3/2020 20:00	5/3/2020 21:00	986.6
5/3/2020 21:00	5/3/2020 22:00	946.1
5/3/2020 22:00	5/3/2020 23:00	864.6
5/3/2020 23:00	5/4/2020 0:00	759.5
5/4/2020 0:00	5/4/2020 1:00	706.8
5/4/2020 1:00	5/4/2020 2:00	764.1
5/4/2020 2:00	5/4/2020 3:00	740.6
5/4/2020 3:00	5/4/2020 4:00	694.9
5/4/2020 4:00	5/4/2020 5:00	723.7
5/4/2020 5:00	5/4/2020 6:00	755.7
5/4/2020 6:00	5/4/2020 7:00	822.4
5/4/2020 7:00	5/4/2020 8:00	895.7
5/4/2020 8:00	5/4/2020 9:00	910.3
5/4/2020 9:00	5/4/2020 10:00	973.1
5/4/2020 10:00	5/4/2020 11:00	1040.9
5/4/2020 11:00	5/4/2020 12:00	1105.8
5/4/2020 12:00	5/4/2020 13:00	1109.7
5/4/2020 13:00	5/4/2020 14:00	1100.8
5/4/2020 14:00	5/4/2020 15:00	1131.3
5/4/2020 15:00	5/4/2020 16:00	1039.1
5/4/2020 16:00	5/4/2020 17:00	1082.7
5/4/2020 17:00	5/4/2020 18:00	1092.3
5/4/2020 18:00	5/4/2020 19:00	1045.1
5/4/2020 19:00	5/4/2020 20:00	1018.3
5/4/2020 20:00	5/4/2020 21:00	1002.7
5/4/2020 21:00	5/4/2020 22:00	988.4
5/4/2020 22:00	5/4/2020 23:00	951.8
5/4/2020 23:00	5/5/2020 0:00	905.7
5/5/2020 0:00	5/5/2020 1:00	920.0

Start Time	End Time	ANL_MW
5/5/2020 1:00	5/5/2020 2:00	875.1
5/5/2020 2:00	5/5/2020 3:00	852.2
5/5/2020 3:00	5/5/2020 4:00	820.0
5/5/2020 4:00	5/5/2020 5:00	789.7
5/5/2020 5:00	5/5/2020 6:00	799.1
5/5/2020 6:00	5/5/2020 7:00	874.0
5/5/2020 7:00	5/5/2020 8:00	975.2
5/5/2020 8:00	5/5/2020 9:00	1044.5
5/5/2020 9:00	5/5/2020 10:00	1074.0
5/5/2020 10:00	5/5/2020 11:00	1050.5
5/5/2020 11:00	5/5/2020 12:00	1044.3
5/5/2020 12:00	5/5/2020 13:00	1037.6
5/5/2020 13:00	5/5/2020 14:00	941.4
5/5/2020 14:00	5/5/2020 15:00	860.0
5/5/2020 15:00	5/5/2020 16:00	846.0
5/5/2020 16:00	5/5/2020 17:00	908.4
5/5/2020 17:00	5/5/2020 18:00	947.4
5/5/2020 18:00	5/5/2020 19:00	889.8
5/5/2020 19:00	5/5/2020 20:00	862.1
5/5/2020 20:00	5/5/2020 21:00	883.4
5/5/2020 21:00	5/5/2020 22:00	874.4
5/5/2020 22:00	5/5/2020 23:00	831.2
5/5/2020 23:00	5/6/2020 0:00	794.7
5/6/2020 0:00	5/6/2020 1:00	810.8
5/6/2020 1:00	5/6/2020 2:00	771.4
5/6/2020 2:00	5/6/2020 3:00	733.3
5/6/2020 3:00	5/6/2020 4:00	714.5
5/6/2020 4:00	5/6/2020 5:00	723.1
5/6/2020 5:00	5/6/2020 6:00	766.6
5/6/2020 6:00	5/6/2020 7:00	790.5
5/6/2020 7:00	5/6/2020 8:00	853.8
5/6/2020 8:00	5/6/2020 9:00	879.3
5/6/2020 9:00	5/6/2020 10:00	888.6
5/6/2020 10:00	5/6/2020 11:00	845.2
5/6/2020 11:00	5/6/2020 12:00	810.6
5/6/2020 12:00	5/6/2020 13:00	819.5
5/6/2020 13:00	5/6/2020 14:00	777.0
5/6/2020 14:00	5/6/2020 15:00	745.7
5/6/2020 15:00	5/6/2020 16:00	786.0
5/6/2020 16:00	5/6/2020 17:00	874.1
5/6/2020 17:00	5/6/2020 18:00	872.1
5/6/2020 18:00	5/6/2020 19:00	884.5
5/6/2020 19:00	5/6/2020 20:00	939.4
5/6/2020 20:00	5/6/2020 21:00	994.3
5/6/2020 21:00	5/6/2020 22:00	994.3
5/6/2020 22:00	5/6/2020 23:00	927.4
5/6/2020 23:00	5/7/2020 0:00	886.5
5/7/2020 0:00	5/7/2020 1:00	876.4
5/7/2020 1:00	5/7/2020 2:00	854.0
5/7/2020 2:00	5/7/2020 3:00	836.6
5/7/2020 3:00	5/7/2020 4:00	826.7
5/7/2020 4:00	5/7/2020 5:00	834.0
5/7/2020 5:00	5/7/2020 6:00	870.1
5/7/2020 6:00	5/7/2020 7:00	920.9
5/7/2020 7:00	5/7/2020 8:00	985.6
5/7/2020 8:00	5/7/2020 9:00	1075.7
5/7/2020 9:00	5/7/2020 10:00	1141.4
5/7/2020 10:00	5/7/2020 11:00	1170.1
5/7/2020 11:00	5/7/2020 12:00	1178.1
5/7/2020 12:00	5/7/2020 13:00	1163.0
5/7/2020 13:00	5/7/2020 14:00	1073.7
5/7/2020 14:00	5/7/2020 15:00	1005.0
5/7/2020 15:00	5/7/2020 16:00	962.6
5/7/2020 16:00	5/7/2020 17:00	966.9
5/7/2020 17:00	5/7/2020 18:00	971.7
5/7/2020 18:00	5/7/2020 19:00	939.9
5/7/2020 19:00	5/7/2020 20:00	955.0
5/7/2020 20:00	5/7/2020 21:00	1017.7
5/7/2020 21:00	5/7/2020 22:00	1043.9
5/7/2020 22:00	5/7/2020 23:00	996.1

Start Time	End Time	ANL_MW
5/7/2020 23:00	5/8/2020 0:00	932.2
5/8/2020 0:00	5/8/2020 1:00	858.5
5/8/2020 1:00	5/8/2020 2:00	789.8
5/8/2020 2:00	5/8/2020 3:00	741.3
5/8/2020 3:00	5/8/2020 4:00	688.9
5/8/2020 4:00	5/8/2020 5:00	703.5
5/8/2020 5:00	5/8/2020 6:00	739.9
5/8/2020 6:00	5/8/2020 7:00	813.6
5/8/2020 7:00	5/8/2020 8:00	887.9
5/8/2020 8:00	5/8/2020 9:00	1006.2
5/8/2020 9:00	5/8/2020 10:00	1056.2
5/8/2020 10:00	5/8/2020 11:00	1031.5
5/8/2020 11:00	5/8/2020 12:00	1033.5
5/8/2020 12:00	5/8/2020 13:00	938.6
5/8/2020 13:00	5/8/2020 14:00	832.4
5/8/2020 14:00	5/8/2020 15:00	713.5
5/8/2020 15:00	5/8/2020 16:00	632.9
5/8/2020 16:00	5/8/2020 17:00	660.6
5/8/2020 17:00	5/8/2020 18:00	658.6
5/8/2020 18:00	5/8/2020 19:00	626.9
5/8/2020 19:00	5/8/2020 20:00	666.1
5/8/2020 20:00	5/8/2020 21:00	725.5
5/8/2020 21:00	5/8/2020 22:00	761.4
5/8/2020 22:00	5/8/2020 23:00	725.5
5/8/2020 23:00	5/9/2020 0:00	720.8
5/9/2020 0:00	5/9/2020 1:00	736.2
5/9/2020 1:00	5/9/2020 2:00	728.8
5/9/2020 2:00	5/9/2020 3:00	793.9
5/9/2020 3:00	5/9/2020 4:00	837.4
5/9/2020 4:00	5/9/2020 5:00	824.6
5/9/2020 5:00	5/9/2020 6:00	788.6
5/9/2020 6:00	5/9/2020 7:00	795.8
5/9/2020 7:00	5/9/2020 8:00	802.4
5/9/2020 8:00	5/9/2020 9:00	816.2
5/9/2020 9:00	5/9/2020 10:00	863.5
5/9/2020 10:00	5/9/2020 11:00	912.1
5/9/2020 11:00	5/9/2020 12:00	972.0
5/9/2020 12:00	5/9/2020 13:00	994.1
5/9/2020 13:00	5/9/2020 14:00	971.3
5/9/2020 14:00	5/9/2020 15:00	908.9
5/9/2020 15:00	5/9/2020 16:00	807.7
5/9/2020 16:00	5/9/2020 17:00	790.2
5/9/2020 17:00	5/9/2020 18:00	811.7
5/9/2020 18:00	5/9/2020 19:00	798.2
5/9/2020 19:00	5/9/2020 20:00	820.8
5/9/2020 20:00	5/9/2020 21:00	884.9
5/9/2020 21:00	5/9/2020 22:00	897.6
5/9/2020 22:00	5/9/2020 23:00	904.2
5/9/2020 23:00	5/10/2020 0:00	825.5
5/10/2020 0:00	5/10/2020 1:00	767.7
5/10/2020 1:00	5/10/2020 2:00	717.7
5/10/2020 2:00	5/10/2020 3:00	684.1
5/10/2020 3:00	5/10/2020 4:00	665.0
5/10/2020 4:00	5/10/2020 5:00	676.0
5/10/2020 5:00	5/10/2020 6:00	635.8
5/10/2020 6:00	5/10/2020 7:00	607.8
5/10/2020 7:00	5/10/2020 8:00	647.8
5/10/2020 8:00	5/10/2020 9:00	761.9
5/10/2020 9:00	5/10/2020 10:00	866.8
5/10/2020 10:00	5/10/2020 11:00	876.9
5/10/2020 11:00	5/10/2020 12:00	873.8
5/10/2020 12:00	5/10/2020 13:00	820.6
5/10/2020 13:00	5/10/2020 14:00	766.5
5/10/2020 14:00	5/10/2020 15:00	724.0
5/10/2020 15:00	5/10/2020 16:00	771.3
5/10/2020 16:00	5/10/2020 17:00	813.7
5/10/2020 17:00	5/10/2020 18:00	837.5
5/10/2020 18:00	5/10/2020 19:00	821.0
5/10/2020 19:00	5/10/2020 20:00	859.2
5/10/2020 20:00	5/10/2020 21:00	891.1

Start Time	End Time	ANL_MW
5/10/2020 21:00	5/10/2020 22:00	875.8
5/10/2020 22:00	5/10/2020 23:00	805.9
5/10/2020 23:00	5/11/2020 0:00	752.6
5/11/2020 0:00	5/11/2020 1:00	694.4
5/11/2020 1:00	5/11/2020 2:00	674.3
5/11/2020 2:00	5/11/2020 3:00	641.7
5/11/2020 3:00	5/11/2020 4:00	652.6
5/11/2020 4:00	5/11/2020 5:00	663.9
5/11/2020 5:00	5/11/2020 6:00	712.7
5/11/2020 6:00	5/11/2020 7:00	715.4
5/11/2020 7:00	5/11/2020 8:00	817.2
5/11/2020 8:00	5/11/2020 9:00	885.3
5/11/2020 9:00	5/11/2020 10:00	827.4
5/11/2020 10:00	5/11/2020 11:00	770.1
5/11/2020 11:00	5/11/2020 12:00	752.9
5/11/2020 12:00	5/11/2020 13:00	763.8
5/11/2020 13:00	5/11/2020 14:00	739.1
5/11/2020 14:00	5/11/2020 15:00	718.0
5/11/2020 15:00	5/11/2020 16:00	683.4
5/11/2020 16:00	5/11/2020 17:00	736.3
5/11/2020 17:00	5/11/2020 18:00	828.5
5/11/2020 18:00	5/11/2020 19:00	846.9
5/11/2020 19:00	5/11/2020 20:00	868.7
5/11/2020 20:00	5/11/2020 21:00	911.5
5/11/2020 21:00	5/11/2020 22:00	961.5
5/11/2020 22:00	5/11/2020 23:00	919.1
5/11/2020 23:00	5/12/2020 0:00	848.0
5/12/2020 0:00	5/12/2020 1:00	843.0
5/12/2020 1:00	5/12/2020 2:00	778.7
5/12/2020 2:00	5/12/2020 3:00	750.3
5/12/2020 3:00	5/12/2020 4:00	737.8
5/12/2020 4:00	5/12/2020 5:00	767.0
5/12/2020 5:00	5/12/2020 6:00	816.9
5/12/2020 6:00	5/12/2020 7:00	848.1
5/12/2020 7:00	5/12/2020 8:00	886.3
5/12/2020 8:00	5/12/2020 9:00	1017.9
5/12/2020 9:00	5/12/2020 10:00	1075.9
5/12/2020 10:00	5/12/2020 11:00	1107.9
5/12/2020 11:00	5/12/2020 12:00	1086.5
5/12/2020 12:00	5/12/2020 13:00	1100.6
5/12/2020 13:00	5/12/2020 14:00	1046.2
5/12/2020 14:00	5/12/2020 15:00	979.8
5/12/2020 15:00	5/12/2020 16:00	931.2
5/12/2020 16:00	5/12/2020 17:00	920.0
5/12/2020 17:00	5/12/2020 18:00	920.5
5/12/2020 18:00	5/12/2020 19:00	850.3
5/12/2020 19:00	5/12/2020 20:00	834.6
5/12/2020 20:00	5/12/2020 21:00	826.4
5/12/2020 21:00	5/12/2020 22:00	798.8
5/12/2020 22:00	5/12/2020 23:00	773.6
5/12/2020 23:00	5/13/2020 0:00	745.9
5/13/2020 0:00	5/13/2020 1:00	784.9
5/13/2020 1:00	5/13/2020 2:00	818.0
5/13/2020 2:00	5/13/2020 3:00	815.4
5/13/2020 3:00	5/13/2020 4:00	842.3
5/13/2020 4:00	5/13/2020 5:00	863.8
5/13/2020 5:00	5/13/2020 6:00	909.3
5/13/2020 6:00	5/13/2020 7:00	945.3
5/13/2020 7:00	5/13/2020 8:00	916.9
5/13/2020 8:00	5/13/2020 9:00	954.9
5/13/2020 9:00	5/13/2020 10:00	983.3
5/13/2020 10:00	5/13/2020 11:00	1050.4
5/13/2020 11:00	5/13/2020 12:00	1053.8
5/13/2020 12:00	5/13/2020 13:00	1017.8
5/13/2020 13:00	5/13/2020 14:00	965.3
5/13/2020 14:00	5/13/2020 15:00	902.2
5/13/2020 15:00	5/13/2020 16:00	861.7
5/13/2020 16:00	5/13/2020 17:00	845.3
5/13/2020 17:00	5/13/2020 18:00	847.2
5/13/2020 18:00	5/13/2020 19:00	812.2

Start Time	End Time	ANL_MW
5/13/2020 19:00	5/13/2020 20:00	850.7
5/13/2020 20:00	5/13/2020 21:00	895.3
5/13/2020 21:00	5/13/2020 22:00	934.0
5/13/2020 22:00	5/13/2020 23:00	850.3
5/13/2020 23:00	5/14/2020 0:00	843.1
5/14/2020 0:00	5/14/2020 1:00	839.3
5/14/2020 1:00	5/14/2020 2:00	700.5
5/14/2020 2:00	5/14/2020 3:00	650.3
5/14/2020 3:00	5/14/2020 4:00	629.0
5/14/2020 4:00	5/14/2020 5:00	661.3
5/14/2020 5:00	5/14/2020 6:00	716.6
5/14/2020 6:00	5/14/2020 7:00	748.4
5/14/2020 7:00	5/14/2020 8:00	761.4
5/14/2020 8:00	5/14/2020 9:00	741.6
5/14/2020 9:00	5/14/2020 10:00	740.9
5/14/2020 10:00	5/14/2020 11:00	754.6
5/14/2020 11:00	5/14/2020 12:00	775.2
5/14/2020 12:00	5/14/2020 13:00	804.0
5/14/2020 13:00	5/14/2020 14:00	794.8
5/14/2020 14:00	5/14/2020 15:00	829.2
5/14/2020 15:00	5/14/2020 16:00	842.6
5/14/2020 16:00	5/14/2020 17:00	857.7
5/14/2020 17:00	5/14/2020 18:00	881.4
5/14/2020 18:00	5/14/2020 19:00	863.1
5/14/2020 19:00	5/14/2020 20:00	867.5
5/14/2020 20:00	5/14/2020 21:00	959.6
5/14/2020 21:00	5/14/2020 22:00	988.9
5/14/2020 22:00	5/14/2020 23:00	960.4
5/14/2020 23:00	5/15/2020 0:00	934.1
5/15/2020 0:00	5/15/2020 1:00	909.8
5/15/2020 1:00	5/15/2020 2:00	875.2
5/15/2020 2:00	5/15/2020 3:00	879.7
5/15/2020 3:00	5/15/2020 4:00	878.4
5/15/2020 4:00	5/15/2020 5:00	909.7
5/15/2020 5:00	5/15/2020 6:00	976.5
5/15/2020 6:00	5/15/2020 7:00	931.1
5/15/2020 7:00	5/15/2020 8:00	974.7
5/15/2020 8:00	5/15/2020 9:00	1055.2
5/15/2020 9:00	5/15/2020 10:00	1072.6
5/15/2020 10:00	5/15/2020 11:00	1065.4
5/15/2020 11:00	5/15/2020 12:00	1044.9
5/15/2020 12:00	5/15/2020 13:00	1037.9
5/15/2020 13:00	5/15/2020 14:00	996.1
5/15/2020 14:00	5/15/2020 15:00	950.7
5/15/2020 15:00	5/15/2020 16:00	928.1
5/15/2020 16:00	5/15/2020 17:00	948.8
5/15/2020 17:00	5/15/2020 18:00	969.7
5/15/2020 18:00	5/15/2020 19:00	958.2
5/15/2020 19:00	5/15/2020 20:00	949.8
5/15/2020 20:00	5/15/2020 21:00	1011.7
5/15/2020 21:00	5/15/2020 22:00	1010.0
5/15/2020 22:00	5/15/2020 23:00	931.0
5/15/2020 23:00	5/16/2020 0:00	947.3
5/16/2020 0:00	5/16/2020 1:00	935.3
5/16/2020 1:00	5/16/2020 2:00	849.6
5/16/2020 2:00	5/16/2020 3:00	767.4
5/16/2020 3:00	5/16/2020 4:00	699.9
5/16/2020 4:00	5/16/2020 5:00	734.7
5/16/2020 5:00	5/16/2020 6:00	785.3
5/16/2020 6:00	5/16/2020 7:00	788.2
5/16/2020 7:00	5/16/2020 8:00	826.5
5/16/2020 8:00	5/16/2020 9:00	837.5
5/16/2020 9:00	5/16/2020 10:00	889.7
5/16/2020 10:00	5/16/2020 11:00	951.3
5/16/2020 11:00	5/16/2020 12:00	1019.4
5/16/2020 12:00	5/16/2020 13:00	1003.2
5/16/2020 13:00	5/16/2020 14:00	953.1
5/16/2020 14:00	5/16/2020 15:00	950.4
5/16/2020 15:00	5/16/2020 16:00	971.6
5/16/2020 16:00	5/16/2020 17:00	1028.7

Start Time	End Time	ANL_MW
5/16/2020 17:00	5/16/2020 18:00	1045.1
5/16/2020 18:00	5/16/2020 19:00	1026.3
5/16/2020 19:00	5/16/2020 20:00	1003.4
5/16/2020 20:00	5/16/2020 21:00	1060.9
5/16/2020 21:00	5/16/2020 22:00	1090.4
5/16/2020 22:00	5/16/2020 23:00	1044.5
5/16/2020 23:00	5/17/2020 0:00	999.7
5/17/2020 0:00	5/17/2020 1:00	944.6
5/17/2020 1:00	5/17/2020 2:00	906.0
5/17/2020 2:00	5/17/2020 3:00	850.6
5/17/2020 3:00	5/17/2020 4:00	820.7
5/17/2020 4:00	5/17/2020 5:00	828.3
5/17/2020 5:00	5/17/2020 6:00	842.8
5/17/2020 6:00	5/17/2020 7:00	853.7
5/17/2020 7:00	5/17/2020 8:00	843.9
5/17/2020 8:00	5/17/2020 9:00	905.1
5/17/2020 9:00	5/17/2020 10:00	945.4
5/17/2020 10:00	5/17/2020 11:00	984.0
5/17/2020 11:00	5/17/2020 12:00	956.1
5/17/2020 12:00	5/17/2020 13:00	842.7
5/17/2020 13:00	5/17/2020 14:00	707.7
5/17/2020 14:00	5/17/2020 15:00	615.2
5/17/2020 15:00	5/17/2020 16:00	682.3
5/17/2020 16:00	5/17/2020 17:00	747.3
5/17/2020 17:00	5/17/2020 18:00	795.0
5/17/2020 18:00	5/17/2020 19:00	820.2
5/17/2020 19:00	5/17/2020 20:00	885.4
5/17/2020 20:00	5/17/2020 21:00	857.6
5/17/2020 21:00	5/17/2020 22:00	867.4
5/17/2020 22:00	5/17/2020 23:00	806.1
5/17/2020 23:00	5/18/2020 0:00	756.7
5/18/2020 0:00	5/18/2020 1:00	726.2
5/18/2020 1:00	5/18/2020 2:00	759.9
5/18/2020 2:00	5/18/2020 3:00	780.9
5/18/2020 3:00	5/18/2020 4:00	789.7
5/18/2020 4:00	5/18/2020 5:00	815.6
5/18/2020 5:00	5/18/2020 6:00	836.2
5/18/2020 6:00	5/18/2020 7:00	875.8
5/18/2020 7:00	5/18/2020 8:00	930.5
5/18/2020 8:00	5/18/2020 9:00	972.8
5/18/2020 9:00	5/18/2020 10:00	948.6
5/18/2020 10:00	5/18/2020 11:00	943.6
5/18/2020 11:00	5/18/2020 12:00	925.8
5/18/2020 12:00	5/18/2020 13:00	899.2
5/18/2020 13:00	5/18/2020 14:00	866.7
5/18/2020 14:00	5/18/2020 15:00	833.8
5/18/2020 15:00	5/18/2020 16:00	827.6
5/18/2020 16:00	5/18/2020 17:00	868.4
5/18/2020 17:00	5/18/2020 18:00	911.0
5/18/2020 18:00	5/18/2020 19:00	915.4
5/18/2020 19:00	5/18/2020 20:00	928.0
5/18/2020 20:00	5/18/2020 21:00	951.4
5/18/2020 21:00	5/18/2020 22:00	957.0
5/18/2020 22:00	5/18/2020 23:00	889.4
5/18/2020 23:00	5/19/2020 0:00	845.2
5/19/2020 0:00	5/19/2020 1:00	816.2
5/19/2020 1:00	5/19/2020 2:00	794.4
5/19/2020 2:00	5/19/2020 3:00	809.4
5/19/2020 3:00	5/19/2020 4:00	825.4
5/19/2020 4:00	5/19/2020 5:00	838.8
5/19/2020 5:00	5/19/2020 6:00	866.2
5/19/2020 6:00	5/19/2020 7:00	893.7
5/19/2020 7:00	5/19/2020 8:00	927.1
5/19/2020 8:00	5/19/2020 9:00	951.8
5/19/2020 9:00	5/19/2020 10:00	885.5
5/19/2020 10:00	5/19/2020 11:00	796.0
5/19/2020 11:00	5/19/2020 12:00	769.0
5/19/2020 12:00	5/19/2020 13:00	746.0
5/19/2020 13:00	5/19/2020 14:00	702.2
5/19/2020 14:00	5/19/2020 15:00	653.3

Start Time	End Time	ANL_MW
5/19/2020 15:00	5/19/2020 16:00	640.9
5/19/2020 16:00	5/19/2020 17:00	691.8
5/19/2020 17:00	5/19/2020 18:00	735.9
5/19/2020 18:00	5/19/2020 19:00	756.5
5/19/2020 19:00	5/19/2020 20:00	784.2
5/19/2020 20:00	5/19/2020 21:00	885.0
5/19/2020 21:00	5/19/2020 22:00	933.4
5/19/2020 22:00	5/19/2020 23:00	894.8
5/19/2020 23:00	5/20/2020 0:00	875.1
5/20/2020 0:00	5/20/2020 1:00	854.2
5/20/2020 1:00	5/20/2020 2:00	845.4
5/20/2020 2:00	5/20/2020 3:00	844.5
5/20/2020 3:00	5/20/2020 4:00	866.8
5/20/2020 4:00	5/20/2020 5:00	892.4
5/20/2020 5:00	5/20/2020 6:00	918.1
5/20/2020 6:00	5/20/2020 7:00	983.4
5/20/2020 7:00	5/20/2020 8:00	1024.6
5/20/2020 8:00	5/20/2020 9:00	1054.6
5/20/2020 9:00	5/20/2020 10:00	1043.4
5/20/2020 10:00	5/20/2020 11:00	1021.3
5/20/2020 11:00	5/20/2020 12:00	1009.8
5/20/2020 12:00	5/20/2020 13:00	992.1
5/20/2020 13:00	5/20/2020 14:00	940.0
5/20/2020 14:00	5/20/2020 15:00	892.2
5/20/2020 15:00	5/20/2020 16:00	869.7
5/20/2020 16:00	5/20/2020 17:00	875.0
5/20/2020 17:00	5/20/2020 18:00	888.0
5/20/2020 18:00	5/20/2020 19:00	866.5
5/20/2020 19:00	5/20/2020 20:00	841.6
5/20/2020 20:00	5/20/2020 21:00	828.1
5/20/2020 21:00	5/20/2020 22:00	784.4
5/20/2020 22:00	5/20/2020 23:00	685.9
5/20/2020 23:00	5/21/2020 0:00	572.8
5/21/2020 0:00	5/21/2020 1:00	510.1
5/21/2020 1:00	5/21/2020 2:00	451.6
5/21/2020 2:00	5/21/2020 3:00	421.2
5/21/2020 3:00	5/21/2020 4:00	440.0
5/21/2020 4:00	5/21/2020 5:00	449.2
5/21/2020 5:00	5/21/2020 6:00	464.6
5/21/2020 6:00	5/21/2020 7:00	504.3
5/21/2020 7:00	5/21/2020 8:00	590.6
5/21/2020 8:00	5/21/2020 9:00	670.0
5/21/2020 9:00	5/21/2020 10:00	684.4
5/21/2020 10:00	5/21/2020 11:00	678.3
5/21/2020 11:00	5/21/2020 12:00	676.3
5/21/2020 12:00	5/21/2020 13:00	672.8
5/21/2020 13:00	5/21/2020 14:00	629.3
5/21/2020 14:00	5/21/2020 15:00	588.9
5/21/2020 15:00	5/21/2020 16:00	571.3
5/21/2020 16:00	5/21/2020 17:00	589.3
5/21/2020 17:00	5/21/2020 18:00	598.6
5/21/2020 18:00	5/21/2020 19:00	557.8
5/21/2020 19:00	5/21/2020 20:00	513.1
5/21/2020 20:00	5/21/2020 21:00	490.6
5/21/2020 21:00	5/21/2020 22:00	467.8
5/21/2020 22:00	5/21/2020 23:00	464.6
5/21/2020 23:00	5/22/2020 0:00	464.0
5/22/2020 0:00	5/22/2020 1:00	464.2
5/22/2020 1:00	5/22/2020 2:00	460.6
5/22/2020 2:00	5/22/2020 3:00	473.1
5/22/2020 3:00	5/22/2020 4:00	477.2
5/22/2020 4:00	5/22/2020 5:00	461.7
5/22/2020 5:00	5/22/2020 6:00	475.2
5/22/2020 6:00	5/22/2020 7:00	504.6
5/22/2020 7:00	5/22/2020 8:00	607.8
5/22/2020 8:00	5/22/2020 9:00	763.5
5/22/2020 9:00	5/22/2020 10:00	836.9
5/22/2020 10:00	5/22/2020 11:00	844.8
5/22/2020 11:00	5/22/2020 12:00	768.6
5/22/2020 12:00	5/22/2020 13:00	759.2

Start Time	End Time	ANL_MW
5/22/2020 13:00	5/22/2020 14:00	711.4
5/22/2020 14:00	5/22/2020 15:00	732.3
5/22/2020 15:00	5/22/2020 16:00	717.9
5/22/2020 16:00	5/22/2020 17:00	711.4
5/22/2020 17:00	5/22/2020 18:00	664.1
5/22/2020 18:00	5/22/2020 19:00	662.5
5/22/2020 19:00	5/22/2020 20:00	676.5
5/22/2020 20:00	5/22/2020 21:00	697.4
5/22/2020 21:00	5/22/2020 22:00	754.8
5/22/2020 22:00	5/22/2020 23:00	766.2
5/22/2020 23:00	5/23/2020 0:00	764.2
5/23/2020 0:00	5/23/2020 1:00	734.5
5/23/2020 1:00	5/23/2020 2:00	705.8
5/23/2020 2:00	5/23/2020 3:00	690.3
5/23/2020 3:00	5/23/2020 4:00	636.4
5/23/2020 4:00	5/23/2020 5:00	594.8
5/23/2020 5:00	5/23/2020 6:00	518.5
5/23/2020 6:00	5/23/2020 7:00	508.3
5/23/2020 7:00	5/23/2020 8:00	508.5
5/23/2020 8:00	5/23/2020 9:00	508.7
5/23/2020 9:00	5/23/2020 10:00	550.5
5/23/2020 10:00	5/23/2020 11:00	602.8
5/23/2020 11:00	5/23/2020 12:00	641.9
5/23/2020 12:00	5/23/2020 13:00	660.2
5/23/2020 13:00	5/23/2020 14:00	670.0
5/23/2020 14:00	5/23/2020 15:00	666.8
5/23/2020 15:00	5/23/2020 16:00	709.0
5/23/2020 16:00	5/23/2020 17:00	774.2
5/23/2020 17:00	5/23/2020 18:00	840.2
5/23/2020 18:00	5/23/2020 19:00	850.2
5/23/2020 19:00	5/23/2020 20:00	877.6
5/23/2020 20:00	5/23/2020 21:00	917.5
5/23/2020 21:00	5/23/2020 22:00	951.1
5/23/2020 22:00	5/23/2020 23:00	910.4
5/23/2020 23:00	5/24/2020 0:00	855.1
5/24/2020 0:00	5/24/2020 1:00	792.8
5/24/2020 1:00	5/24/2020 2:00	756.5
5/24/2020 2:00	5/24/2020 3:00	735.5
5/24/2020 3:00	5/24/2020 4:00	736.6
5/24/2020 4:00	5/24/2020 5:00	762.4
5/24/2020 5:00	5/24/2020 6:00	783.3
5/24/2020 6:00	5/24/2020 7:00	804.8
5/24/2020 7:00	5/24/2020 8:00	863.5
5/24/2020 8:00	5/24/2020 9:00	932.4
5/24/2020 9:00	5/24/2020 10:00	971.4
5/24/2020 10:00	5/24/2020 11:00	972.0
5/24/2020 11:00	5/24/2020 12:00	967.2
5/24/2020 12:00	5/24/2020 13:00	956.2
5/24/2020 13:00	5/24/2020 14:00	897.5
5/24/2020 14:00	5/24/2020 15:00	883.3
5/24/2020 15:00	5/24/2020 16:00	878.8
5/24/2020 16:00	5/24/2020 17:00	902.4
5/24/2020 17:00	5/24/2020 18:00	932.0
5/24/2020 18:00	5/24/2020 19:00	897.8
5/24/2020 19:00	5/24/2020 20:00	910.3
5/24/2020 20:00	5/24/2020 21:00	925.7
5/24/2020 21:00	5/24/2020 22:00	888.7
5/24/2020 22:00	5/24/2020 23:00	774.9
5/24/2020 23:00	5/25/2020 0:00	679.5
5/25/2020 0:00	5/25/2020 1:00	560.1
5/25/2020 1:00	5/25/2020 2:00	553.1
5/25/2020 2:00	5/25/2020 3:00	533.5
5/25/2020 3:00	5/25/2020 4:00	542.8
5/25/2020 4:00	5/25/2020 5:00	582.3
5/25/2020 5:00	5/25/2020 6:00	630.6
5/25/2020 6:00	5/25/2020 7:00	699.8
5/25/2020 7:00	5/25/2020 8:00	795.7
5/25/2020 8:00	5/25/2020 9:00	883.8
5/25/2020 9:00	5/25/2020 10:00	903.0
5/25/2020 10:00	5/25/2020 11:00	892.3

Start Time	End Time	ANL_MW
5/25/2020 11:00	5/25/2020 12:00	875.3
5/25/2020 12:00	5/25/2020 13:00	868.6
5/25/2020 13:00	5/25/2020 14:00	824.7
5/25/2020 14:00	5/25/2020 15:00	785.1
5/25/2020 15:00	5/25/2020 16:00	763.9
5/25/2020 16:00	5/25/2020 17:00	792.3
5/25/2020 17:00	5/25/2020 18:00	802.6
5/25/2020 18:00	5/25/2020 19:00	740.0
5/25/2020 19:00	5/25/2020 20:00	721.1
5/25/2020 20:00	5/25/2020 21:00	702.3
5/25/2020 21:00	5/25/2020 22:00	666.2
5/25/2020 22:00	5/25/2020 23:00	573.6
5/25/2020 23:00	5/26/2020 0:00	480.2
5/26/2020 0:00	5/26/2020 1:00	453.7
5/26/2020 1:00	5/26/2020 2:00	451.1
5/26/2020 2:00	5/26/2020 3:00	428.8
5/26/2020 3:00	5/26/2020 4:00	439.4
5/26/2020 4:00	5/26/2020 5:00	456.7
5/26/2020 5:00	5/26/2020 6:00	444.1
5/26/2020 6:00	5/26/2020 7:00	502.0
5/26/2020 7:00	5/26/2020 8:00	597.6
5/26/2020 8:00	5/26/2020 9:00	719.0
5/26/2020 9:00	5/26/2020 10:00	799.3
5/26/2020 10:00	5/26/2020 11:00	804.6
5/26/2020 11:00	5/26/2020 12:00	762.1
5/26/2020 12:00	5/26/2020 13:00	732.2
5/26/2020 13:00	5/26/2020 14:00	694.2
5/26/2020 14:00	5/26/2020 15:00	681.4
5/26/2020 15:00	5/26/2020 16:00	672.6
5/26/2020 16:00	5/26/2020 17:00	637.2
5/26/2020 17:00	5/26/2020 18:00	653.8
5/26/2020 18:00	5/26/2020 19:00	664.8
5/26/2020 19:00	5/26/2020 20:00	665.2
5/26/2020 20:00	5/26/2020 21:00	689.9
5/26/2020 21:00	5/26/2020 22:00	688.5
5/26/2020 22:00	5/26/2020 23:00	570.9
5/26/2020 23:00	5/27/2020 0:00	471.1
5/27/2020 0:00	5/27/2020 1:00	442.2
5/27/2020 1:00	5/27/2020 2:00	413.3
5/27/2020 2:00	5/27/2020 3:00	482.0
5/27/2020 3:00	5/27/2020 4:00	514.1
5/27/2020 4:00	5/27/2020 5:00	509.9
5/27/2020 5:00	5/27/2020 6:00	545.3
5/27/2020 6:00	5/27/2020 7:00	644.3
5/27/2020 7:00	5/27/2020 8:00	750.2
5/27/2020 8:00	5/27/2020 9:00	869.1
5/27/2020 9:00	5/27/2020 10:00	865.9
5/27/2020 10:00	5/27/2020 11:00	925.6
5/27/2020 11:00	5/27/2020 12:00	976.5
5/27/2020 12:00	5/27/2020 13:00	984.2
5/27/2020 13:00	5/27/2020 14:00	967.6
5/27/2020 14:00	5/27/2020 15:00	949.1
5/27/2020 15:00	5/27/2020 16:00	942.4
5/27/2020 16:00	5/27/2020 17:00	985.8
5/27/2020 17:00	5/27/2020 18:00	999.3
5/27/2020 18:00	5/27/2020 19:00	960.7
5/27/2020 19:00	5/27/2020 20:00	936.1
5/27/2020 20:00	5/27/2020 21:00	919.0
5/27/2020 21:00	5/27/2020 22:00	879.2
5/27/2020 22:00	5/27/2020 23:00	780.9
5/27/2020 23:00	5/28/2020 0:00	630.8
5/28/2020 0:00	5/28/2020 1:00	527.1
5/28/2020 1:00	5/28/2020 2:00	479.0
5/28/2020 2:00	5/28/2020 3:00	458.3
5/28/2020 3:00	5/28/2020 4:00	465.8
5/28/2020 4:00	5/28/2020 5:00	466.7
5/28/2020 5:00	5/28/2020 6:00	463.0
5/28/2020 6:00	5/28/2020 7:00	472.8
5/28/2020 7:00	5/28/2020 8:00	569.4
5/28/2020 8:00	5/28/2020 9:00	661.4

Start Time	End Time	ANL_MW
5/28/2020 9:00	5/28/2020 10:00	716.5
5/28/2020 10:00	5/28/2020 11:00	780.9
5/28/2020 11:00	5/28/2020 12:00	869.9
5/28/2020 12:00	5/28/2020 13:00	930.0
5/28/2020 13:00	5/28/2020 14:00	918.7
5/28/2020 14:00	5/28/2020 15:00	877.8
5/28/2020 15:00	5/28/2020 16:00	677.3
5/28/2020 16:00	5/28/2020 17:00	664.0
5/28/2020 17:00	5/28/2020 18:00	666.6
5/28/2020 18:00	5/28/2020 19:00	641.9
5/28/2020 19:00	5/28/2020 20:00	643.2
5/28/2020 20:00	5/28/2020 21:00	645.3
5/28/2020 21:00	5/28/2020 22:00	644.8
5/28/2020 22:00	5/28/2020 23:00	590.6
5/28/2020 23:00	5/29/2020 0:00	553.7
5/29/2020 0:00	5/29/2020 1:00	480.4
5/29/2020 1:00	5/29/2020 2:00	432.2
5/29/2020 2:00	5/29/2020 3:00	468.0
5/29/2020 3:00	5/29/2020 4:00	441.2
5/29/2020 4:00	5/29/2020 5:00	440.9
5/29/2020 5:00	5/29/2020 6:00	462.6
5/29/2020 6:00	5/29/2020 7:00	459.1
5/29/2020 7:00	5/29/2020 8:00	567.0
5/29/2020 8:00	5/29/2020 9:00	644.2
5/29/2020 9:00	5/29/2020 10:00	681.9
5/29/2020 10:00	5/29/2020 11:00	672.0
5/29/2020 11:00	5/29/2020 12:00	686.0
5/29/2020 12:00	5/29/2020 13:00	714.6
5/29/2020 13:00	5/29/2020 14:00	685.7
5/29/2020 14:00	5/29/2020 15:00	661.5
5/29/2020 15:00	5/29/2020 16:00	645.7
5/29/2020 16:00	5/29/2020 17:00	669.2
5/29/2020 17:00	5/29/2020 18:00	696.6
5/29/2020 18:00	5/29/2020 19:00	723.3
5/29/2020 19:00	5/29/2020 20:00	670.6
5/29/2020 20:00	5/29/2020 21:00	631.4
5/29/2020 21:00	5/29/2020 22:00	618.1
5/29/2020 22:00	5/29/2020 23:00	552.5
5/29/2020 23:00	5/30/2020 0:00	497.6
5/30/2020 0:00	5/30/2020 1:00	474.2
5/30/2020 1:00	5/30/2020 2:00	476.1
5/30/2020 2:00	5/30/2020 3:00	498.9
5/30/2020 3:00	5/30/2020 4:00	484.4
5/30/2020 4:00	5/30/2020 5:00	485.4
5/30/2020 5:00	5/30/2020 6:00	489.1
5/30/2020 6:00	5/30/2020 7:00	513.2
5/30/2020 7:00	5/30/2020 8:00	559.9
5/30/2020 8:00	5/30/2020 9:00	541.6
5/30/2020 9:00	5/30/2020 10:00	591.9
5/30/2020 10:00	5/30/2020 11:00	626.9
5/30/2020 11:00	5/30/2020 12:00	606.3
5/30/2020 12:00	5/30/2020 13:00	607.5
5/30/2020 13:00	5/30/2020 14:00	612.9
5/30/2020 14:00	5/30/2020 15:00	576.6
5/30/2020 15:00	5/30/2020 16:00	563.1
5/30/2020 16:00	5/30/2020 17:00	606.5
5/30/2020 17:00	5/30/2020 18:00	654.9
5/30/2020 18:00	5/30/2020 19:00	681.4
5/30/2020 19:00	5/30/2020 20:00	713.8
5/30/2020 20:00	5/30/2020 21:00	730.4
5/30/2020 21:00	5/30/2020 22:00	730.8
5/30/2020 22:00	5/30/2020 23:00	729.6
5/30/2020 23:00	5/31/2020 0:00	684.7
5/31/2020 0:00	5/31/2020 1:00	588.8
5/31/2020 1:00	5/31/2020 2:00	586.4
5/31/2020 2:00	5/31/2020 3:00	586.9
5/31/2020 3:00	5/31/2020 4:00	599.3
5/31/2020 4:00	5/31/2020 5:00	620.8
5/31/2020 5:00	5/31/2020 6:00	612.6
5/31/2020 6:00	5/31/2020 7:00	617.9

Start Time	End Time	ANL_MW
5/31/2020 7:00	5/31/2020 8:00	662.4
5/31/2020 8:00	5/31/2020 9:00	721.5
5/31/2020 9:00	5/31/2020 10:00	794.2
5/31/2020 10:00	5/31/2020 11:00	857.5
5/31/2020 11:00	5/31/2020 12:00	901.7
5/31/2020 12:00	5/31/2020 13:00	897.2
5/31/2020 13:00	5/31/2020 14:00	852.4
5/31/2020 14:00	5/31/2020 15:00	834.1
5/31/2020 15:00	5/31/2020 16:00	838.0
5/31/2020 16:00	5/31/2020 17:00	861.9
5/31/2020 17:00	5/31/2020 18:00	855.5
5/31/2020 18:00	5/31/2020 19:00	817.0
5/31/2020 19:00	5/31/2020 20:00	786.5
5/31/2020 20:00	5/31/2020 21:00	773.1
5/31/2020 21:00	5/31/2020 22:00	745.5
5/31/2020 22:00	5/31/2020 23:00	622.3
5/31/2020 23:00	6/1/2020 0:00	525.4
6/1/2020 0:00	6/1/2020 1:00	507.3
6/1/2020 1:00	6/1/2020 2:00	493.9
6/1/2020 2:00	6/1/2020 3:00	477.5
6/1/2020 3:00	6/1/2020 4:00	502.4
6/1/2020 4:00	6/1/2020 5:00	510.3
6/1/2020 5:00	6/1/2020 6:00	531.5
6/1/2020 6:00	6/1/2020 7:00	601.5
6/1/2020 7:00	6/1/2020 8:00	724.2
6/1/2020 8:00	6/1/2020 9:00	759.5
6/1/2020 9:00	6/1/2020 10:00	822.4
6/1/2020 10:00	6/1/2020 11:00	810.7
6/1/2020 11:00	6/1/2020 12:00	823.5
6/1/2020 12:00	6/1/2020 13:00	830.3
6/1/2020 13:00	6/1/2020 14:00	823.4
6/1/2020 14:00	6/1/2020 15:00	821.3
6/1/2020 15:00	6/1/2020 16:00	818.6
6/1/2020 16:00	6/1/2020 17:00	850.0
6/1/2020 17:00	6/1/2020 18:00	878.0
6/1/2020 18:00	6/1/2020 19:00	857.3
6/1/2020 19:00	6/1/2020 20:00	824.8
6/1/2020 20:00	6/1/2020 21:00	820.5
6/1/2020 21:00	6/1/2020 22:00	825.8
6/1/2020 22:00	6/1/2020 23:00	736.2
6/1/2020 23:00	6/2/2020 0:00	676.5
6/2/2020 0:00	6/2/2020 1:00	659.3
6/2/2020 1:00	6/2/2020 2:00	651.1
6/2/2020 2:00	6/2/2020 3:00	605.5
6/2/2020 3:00	6/2/2020 4:00	579.3
6/2/2020 4:00	6/2/2020 5:00	586.3
6/2/2020 5:00	6/2/2020 6:00	582.8
6/2/2020 6:00	6/2/2020 7:00	640.8
6/2/2020 7:00	6/2/2020 8:00	711.8
6/2/2020 8:00	6/2/2020 9:00	791.4
6/2/2020 9:00	6/2/2020 10:00	823.0
6/2/2020 10:00	6/2/2020 11:00	783.5
6/2/2020 11:00	6/2/2020 12:00	765.3
6/2/2020 12:00	6/2/2020 13:00	737.5
6/2/2020 13:00	6/2/2020 14:00	702.5
6/2/2020 14:00	6/2/2020 15:00	710.9
6/2/2020 15:00	6/2/2020 16:00	735.8
6/2/2020 16:00	6/2/2020 17:00	806.4
6/2/2020 17:00	6/2/2020 18:00	881.6
6/2/2020 18:00	6/2/2020 19:00	899.0
6/2/2020 19:00	6/2/2020 20:00	908.1
6/2/2020 20:00	6/2/2020 21:00	912.8
6/2/2020 21:00	6/2/2020 22:00	881.4
6/2/2020 22:00	6/2/2020 23:00	768.5
6/2/2020 23:00	6/3/2020 0:00	678.8
6/3/2020 0:00	6/3/2020 1:00	592.9
6/3/2020 1:00	6/3/2020 2:00	578.8
6/3/2020 2:00	6/3/2020 3:00	576.3
6/3/2020 3:00	6/3/2020 4:00	597.8
6/3/2020 4:00	6/3/2020 5:00	628.2

Start Time	End Time	ANL_MW
6/3/2020 5:00	6/3/2020 6:00	666.3
6/3/2020 6:00	6/3/2020 7:00	638.1
6/3/2020 7:00	6/3/2020 8:00	737.6
6/3/2020 8:00	6/3/2020 9:00	843.2
6/3/2020 9:00	6/3/2020 10:00	857.2
6/3/2020 10:00	6/3/2020 11:00	875.8
6/3/2020 11:00	6/3/2020 12:00	917.5
6/3/2020 12:00	6/3/2020 13:00	937.1
6/3/2020 13:00	6/3/2020 14:00	942.3
6/3/2020 14:00	6/3/2020 15:00	882.6
6/3/2020 15:00	6/3/2020 16:00	873.3
6/3/2020 16:00	6/3/2020 17:00	910.1
6/3/2020 17:00	6/3/2020 18:00	952.3
6/3/2020 18:00	6/3/2020 19:00	906.8
6/3/2020 19:00	6/3/2020 20:00	913.9
6/3/2020 20:00	6/3/2020 21:00	917.0
6/3/2020 21:00	6/3/2020 22:00	920.4
6/3/2020 22:00	6/3/2020 23:00	858.7
6/3/2020 23:00	6/4/2020 0:00	809.1
6/4/2020 0:00	6/4/2020 1:00	752.0
6/4/2020 1:00	6/4/2020 2:00	739.6
6/4/2020 2:00	6/4/2020 3:00	732.1
6/4/2020 3:00	6/4/2020 4:00	733.4
6/4/2020 4:00	6/4/2020 5:00	729.3
6/4/2020 5:00	6/4/2020 6:00	742.2
6/4/2020 6:00	6/4/2020 7:00	792.2
6/4/2020 7:00	6/4/2020 8:00	877.7
6/4/2020 8:00	6/4/2020 9:00	951.9
6/4/2020 9:00	6/4/2020 10:00	986.3
6/4/2020 10:00	6/4/2020 11:00	975.9
6/4/2020 11:00	6/4/2020 12:00	945.2
6/4/2020 12:00	6/4/2020 13:00	929.2
6/4/2020 13:00	6/4/2020 14:00	914.5
6/4/2020 14:00	6/4/2020 15:00	878.4
6/4/2020 15:00	6/4/2020 16:00	822.8
6/4/2020 16:00	6/4/2020 17:00	778.1
6/4/2020 17:00	6/4/2020 18:00	779.6
6/4/2020 18:00	6/4/2020 19:00	770.5
6/4/2020 19:00	6/4/2020 20:00	757.8
6/4/2020 20:00	6/4/2020 21:00	807.3
6/4/2020 21:00	6/4/2020 22:00	812.0
6/4/2020 22:00	6/4/2020 23:00	721.0
6/4/2020 23:00	6/5/2020 0:00	641.0
6/5/2020 0:00	6/5/2020 1:00	600.0
6/5/2020 1:00	6/5/2020 2:00	551.0
6/5/2020 2:00	6/5/2020 3:00	505.9
6/5/2020 3:00	6/5/2020 4:00	501.3
6/5/2020 4:00	6/5/2020 5:00	507.1
6/5/2020 5:00	6/5/2020 6:00	505.8
6/5/2020 6:00	6/5/2020 7:00	606.1
6/5/2020 7:00	6/5/2020 8:00	725.3
6/5/2020 8:00	6/5/2020 9:00	793.4
6/5/2020 9:00	6/5/2020 10:00	884.1
6/5/2020 10:00	6/5/2020 11:00	896.7
6/5/2020 11:00	6/5/2020 12:00	925.2
6/5/2020 12:00	6/5/2020 13:00	944.0
6/5/2020 13:00	6/5/2020 14:00	924.5
6/5/2020 14:00	6/5/2020 15:00	824.6
6/5/2020 15:00	6/5/2020 16:00	825.0
6/5/2020 16:00	6/5/2020 17:00	773.4
6/5/2020 17:00	6/5/2020 18:00	667.0
6/5/2020 18:00	6/5/2020 19:00	641.7
6/5/2020 19:00	6/5/2020 20:00	680.0
6/5/2020 20:00	6/5/2020 21:00	717.1
6/5/2020 21:00	6/5/2020 22:00	684.1
6/5/2020 22:00	6/5/2020 23:00	629.6
6/5/2020 23:00	6/6/2020 0:00	587.5
6/6/2020 0:00	6/6/2020 1:00	513.1
6/6/2020 1:00	6/6/2020 2:00	546.0
6/6/2020 2:00	6/6/2020 3:00	634.3

Start Time	End Time	ANL_MW
6/6/2020 3:00	6/6/2020 4:00	667.6
6/6/2020 4:00	6/6/2020 5:00	714.6
6/6/2020 5:00	6/6/2020 6:00	741.1
6/6/2020 6:00	6/6/2020 7:00	702.2
6/6/2020 7:00	6/6/2020 8:00	747.9
6/6/2020 8:00	6/6/2020 9:00	798.3
6/6/2020 9:00	6/6/2020 10:00	857.2
6/6/2020 10:00	6/6/2020 11:00	908.2
6/6/2020 11:00	6/6/2020 12:00	893.5
6/6/2020 12:00	6/6/2020 13:00	916.3
6/6/2020 13:00	6/6/2020 14:00	908.2
6/6/2020 14:00	6/6/2020 15:00	898.4
6/6/2020 15:00	6/6/2020 16:00	884.5
6/6/2020 16:00	6/6/2020 17:00	929.5
6/6/2020 17:00	6/6/2020 18:00	955.1
6/6/2020 18:00	6/6/2020 19:00	956.4
6/6/2020 19:00	6/6/2020 20:00	924.0
6/6/2020 20:00	6/6/2020 21:00	925.9
6/6/2020 21:00	6/6/2020 22:00	931.0
6/6/2020 22:00	6/6/2020 23:00	881.5
6/6/2020 23:00	6/7/2020 0:00	821.1
6/7/2020 0:00	6/7/2020 1:00	821.7
6/7/2020 1:00	6/7/2020 2:00	757.9
6/7/2020 2:00	6/7/2020 3:00	694.2
6/7/2020 3:00	6/7/2020 4:00	641.6
6/7/2020 4:00	6/7/2020 5:00	611.9
6/7/2020 5:00	6/7/2020 6:00	576.7
6/7/2020 6:00	6/7/2020 7:00	548.5
6/7/2020 7:00	6/7/2020 8:00	587.2
6/7/2020 8:00	6/7/2020 9:00	623.8
6/7/2020 9:00	6/7/2020 10:00	705.9
6/7/2020 10:00	6/7/2020 11:00	767.3
6/7/2020 11:00	6/7/2020 12:00	792.6
6/7/2020 12:00	6/7/2020 13:00	787.1
6/7/2020 13:00	6/7/2020 14:00	782.8
6/7/2020 14:00	6/7/2020 15:00	719.2
6/7/2020 15:00	6/7/2020 16:00	700.1
6/7/2020 16:00	6/7/2020 17:00	745.3
6/7/2020 17:00	6/7/2020 18:00	773.3
6/7/2020 18:00	6/7/2020 19:00	742.3
6/7/2020 19:00	6/7/2020 20:00	768.5
6/7/2020 20:00	6/7/2020 21:00	711.2
6/7/2020 21:00	6/7/2020 22:00	693.4
6/7/2020 22:00	6/7/2020 23:00	623.5
6/7/2020 23:00	6/8/2020 0:00	578.4
6/8/2020 0:00	6/8/2020 1:00	564.9
6/8/2020 1:00	6/8/2020 2:00	587.1
6/8/2020 2:00	6/8/2020 3:00	590.3
6/8/2020 3:00	6/8/2020 4:00	580.7
6/8/2020 4:00	6/8/2020 5:00	574.4
6/8/2020 5:00	6/8/2020 6:00	606.1
6/8/2020 6:00	6/8/2020 7:00	694.8
6/8/2020 7:00	6/8/2020 8:00	803.5
6/8/2020 8:00	6/8/2020 9:00	910.8
6/8/2020 9:00	6/8/2020 10:00	932.7
6/8/2020 10:00	6/8/2020 11:00	930.2
6/8/2020 11:00	6/8/2020 12:00	929.6
6/8/2020 12:00	6/8/2020 13:00	914.3
6/8/2020 13:00	6/8/2020 14:00	862.0
6/8/2020 14:00	6/8/2020 15:00	822.9
6/8/2020 15:00	6/8/2020 16:00	811.8
6/8/2020 16:00	6/8/2020 17:00	870.1
6/8/2020 17:00	6/8/2020 18:00	931.5
6/8/2020 18:00	6/8/2020 19:00	931.2
6/8/2020 19:00	6/8/2020 20:00	952.4
6/8/2020 20:00	6/8/2020 21:00	968.6
6/8/2020 21:00	6/8/2020 22:00	985.1
6/8/2020 22:00	6/8/2020 23:00	944.0
6/8/2020 23:00	6/9/2020 0:00	911.1
6/9/2020 0:00	6/9/2020 1:00	866.8

Start Time	End Time	ANL_MW
6/9/2020 1:00	6/9/2020 2:00	827.8
6/9/2020 2:00	6/9/2020 3:00	803.4
6/9/2020 3:00	6/9/2020 4:00	786.5
6/9/2020 4:00	6/9/2020 5:00	792.2
6/9/2020 5:00	6/9/2020 6:00	802.9
6/9/2020 6:00	6/9/2020 7:00	828.3
6/9/2020 7:00	6/9/2020 8:00	952.7
6/9/2020 8:00	6/9/2020 9:00	1047.5
6/9/2020 9:00	6/9/2020 10:00	1048.8
6/9/2020 10:00	6/9/2020 11:00	1051.4
6/9/2020 11:00	6/9/2020 12:00	1044.7
6/9/2020 12:00	6/9/2020 13:00	1004.5
6/9/2020 13:00	6/9/2020 14:00	956.2
6/9/2020 14:00	6/9/2020 15:00	905.7
6/9/2020 15:00	6/9/2020 16:00	863.1
6/9/2020 16:00	6/9/2020 17:00	913.2
6/9/2020 17:00	6/9/2020 18:00	915.8
6/9/2020 18:00	6/9/2020 19:00	908.9
6/9/2020 19:00	6/9/2020 20:00	861.4
6/9/2020 20:00	6/9/2020 21:00	858.5
6/9/2020 21:00	6/9/2020 22:00	909.2
6/9/2020 22:00	6/9/2020 23:00	856.8
6/9/2020 23:00	6/10/2020 0:00	867.3
6/10/2020 0:00	6/10/2020 1:00	825.2
6/10/2020 1:00	6/10/2020 2:00	797.9
6/10/2020 2:00	6/10/2020 3:00	795.9
6/10/2020 3:00	6/10/2020 4:00	800.6
6/10/2020 4:00	6/10/2020 5:00	803.4
6/10/2020 5:00	6/10/2020 6:00	820.3
6/10/2020 6:00	6/10/2020 7:00	815.9
6/10/2020 7:00	6/10/2020 8:00	907.4
6/10/2020 8:00	6/10/2020 9:00	986.3
6/10/2020 9:00	6/10/2020 10:00	999.6
6/10/2020 10:00	6/10/2020 11:00	990.0
6/10/2020 11:00	6/10/2020 12:00	987.7
6/10/2020 12:00	6/10/2020 13:00	980.6
6/10/2020 13:00	6/10/2020 14:00	948.9
6/10/2020 14:00	6/10/2020 15:00	900.5
6/10/2020 15:00	6/10/2020 16:00	872.7
6/10/2020 16:00	6/10/2020 17:00	867.5
6/10/2020 17:00	6/10/2020 18:00	849.9
6/10/2020 18:00	6/10/2020 19:00	788.3
6/10/2020 19:00	6/10/2020 20:00	762.3
6/10/2020 20:00	6/10/2020 21:00	762.2
6/10/2020 21:00	6/10/2020 22:00	735.6
6/10/2020 22:00	6/10/2020 23:00	663.6
6/10/2020 23:00	6/11/2020 0:00	609.2
6/11/2020 0:00	6/11/2020 1:00	538.3
6/11/2020 1:00	6/11/2020 2:00	521.0
6/11/2020 2:00	6/11/2020 3:00	531.2
6/11/2020 3:00	6/11/2020 4:00	517.4
6/11/2020 4:00	6/11/2020 5:00	530.3
6/11/2020 5:00	6/11/2020 6:00	548.7
6/11/2020 6:00	6/11/2020 7:00	613.1
6/11/2020 7:00	6/11/2020 8:00	695.0
6/11/2020 8:00	6/11/2020 9:00	759.2
6/11/2020 9:00	6/11/2020 10:00	778.6
6/11/2020 10:00	6/11/2020 11:00	760.7
6/11/2020 11:00	6/11/2020 12:00	751.9
6/11/2020 12:00	6/11/2020 13:00	761.7
6/11/2020 13:00	6/11/2020 14:00	741.7
6/11/2020 14:00	6/11/2020 15:00	720.2
6/11/2020 15:00	6/11/2020 16:00	631.2
6/11/2020 16:00	6/11/2020 17:00	661.7
6/11/2020 17:00	6/11/2020 18:00	700.1
6/11/2020 18:00	6/11/2020 19:00	686.2
6/11/2020 19:00	6/11/2020 20:00	707.6
6/11/2020 20:00	6/11/2020 21:00	682.9
6/11/2020 21:00	6/11/2020 22:00	657.9
6/11/2020 22:00	6/11/2020 23:00	596.5

Start Time	End Time	ANL_MW
6/11/2020 23:00	6/12/2020 0:00	551.0
6/12/2020 0:00	6/12/2020 1:00	496.4
6/12/2020 1:00	6/12/2020 2:00	463.2
6/12/2020 2:00	6/12/2020 3:00	453.0
6/12/2020 3:00	6/12/2020 4:00	469.4
6/12/2020 4:00	6/12/2020 5:00	479.1
6/12/2020 5:00	6/12/2020 6:00	502.4
6/12/2020 6:00	6/12/2020 7:00	585.9
6/12/2020 7:00	6/12/2020 8:00	693.0
6/12/2020 8:00	6/12/2020 9:00	772.3
6/12/2020 9:00	6/12/2020 10:00	730.6
6/12/2020 10:00	6/12/2020 11:00	787.1
6/12/2020 11:00	6/12/2020 12:00	811.3
6/12/2020 12:00	6/12/2020 13:00	827.6
6/12/2020 13:00	6/12/2020 14:00	828.4
6/12/2020 14:00	6/12/2020 15:00	811.6
6/12/2020 15:00	6/12/2020 16:00	777.4
6/12/2020 16:00	6/12/2020 17:00	772.4
6/12/2020 17:00	6/12/2020 18:00	777.3
6/12/2020 18:00	6/12/2020 19:00	790.1
6/12/2020 19:00	6/12/2020 20:00	844.9
6/12/2020 20:00	6/12/2020 21:00	856.8
6/12/2020 21:00	6/12/2020 22:00	850.3
6/12/2020 22:00	6/12/2020 23:00	791.4
6/12/2020 23:00	6/13/2020 0:00	722.5
6/13/2020 0:00	6/13/2020 1:00	648.2
6/13/2020 1:00	6/13/2020 2:00	622.8
6/13/2020 2:00	6/13/2020 3:00	652.6
6/13/2020 3:00	6/13/2020 4:00	699.9
6/13/2020 4:00	6/13/2020 5:00	682.2
6/13/2020 5:00	6/13/2020 6:00	718.5
6/13/2020 6:00	6/13/2020 7:00	738.9
6/13/2020 7:00	6/13/2020 8:00	812.5
6/13/2020 8:00	6/13/2020 9:00	925.9
6/13/2020 9:00	6/13/2020 10:00	1027.5
6/13/2020 10:00	6/13/2020 11:00	1071.2
6/13/2020 11:00	6/13/2020 12:00	1099.1
6/13/2020 12:00	6/13/2020 13:00	1095.5
6/13/2020 13:00	6/13/2020 14:00	1069.7
6/13/2020 14:00	6/13/2020 15:00	1011.0
6/13/2020 15:00	6/13/2020 16:00	1006.5
6/13/2020 16:00	6/13/2020 17:00	1034.8
6/13/2020 17:00	6/13/2020 18:00	1041.2
6/13/2020 18:00	6/13/2020 19:00	1018.3
6/13/2020 19:00	6/13/2020 20:00	980.9
6/13/2020 20:00	6/13/2020 21:00	938.0
6/13/2020 21:00	6/13/2020 22:00	877.3
6/13/2020 22:00	6/13/2020 23:00	774.6
6/13/2020 23:00	6/14/2020 0:00	717.8
6/14/2020 0:00	6/14/2020 1:00	696.2
6/14/2020 1:00	6/14/2020 2:00	716.3
6/14/2020 2:00	6/14/2020 3:00	698.3
6/14/2020 3:00	6/14/2020 4:00	676.1
6/14/2020 4:00	6/14/2020 5:00	661.4
6/14/2020 5:00	6/14/2020 6:00	648.1
6/14/2020 6:00	6/14/2020 7:00	679.3
6/14/2020 7:00	6/14/2020 8:00	764.3
6/14/2020 8:00	6/14/2020 9:00	866.8
6/14/2020 9:00	6/14/2020 10:00	955.2
6/14/2020 10:00	6/14/2020 11:00	1019.5
6/14/2020 11:00	6/14/2020 12:00	969.9
6/14/2020 12:00	6/14/2020 13:00	949.3
6/14/2020 13:00	6/14/2020 14:00	931.2
6/14/2020 14:00	6/14/2020 15:00	912.4
6/14/2020 15:00	6/14/2020 16:00	897.0
6/14/2020 16:00	6/14/2020 17:00	924.5
6/14/2020 17:00	6/14/2020 18:00	950.3
6/14/2020 18:00	6/14/2020 19:00	944.3
6/14/2020 19:00	6/14/2020 20:00	952.1
6/14/2020 20:00	6/14/2020 21:00	939.0

Start Time	End Time	ANL_MW
6/14/2020 21:00	6/14/2020 22:00	940.0
6/14/2020 22:00	6/14/2020 23:00	893.5
6/14/2020 23:00	6/15/2020 0:00	814.7
6/15/2020 0:00	6/15/2020 1:00	771.1
6/15/2020 1:00	6/15/2020 2:00	802.8
6/15/2020 2:00	6/15/2020 3:00	792.1
6/15/2020 3:00	6/15/2020 4:00	782.6
6/15/2020 4:00	6/15/2020 5:00	779.3
6/15/2020 5:00	6/15/2020 6:00	733.5
6/15/2020 6:00	6/15/2020 7:00	719.3
6/15/2020 7:00	6/15/2020 8:00	814.7
6/15/2020 8:00	6/15/2020 9:00	917.6
6/15/2020 9:00	6/15/2020 10:00	977.6
6/15/2020 10:00	6/15/2020 11:00	1010.2
6/15/2020 11:00	6/15/2020 12:00	1026.1
6/15/2020 12:00	6/15/2020 13:00	1029.1
6/15/2020 13:00	6/15/2020 14:00	1010.3
6/15/2020 14:00	6/15/2020 15:00	987.0
6/15/2020 15:00	6/15/2020 16:00	986.9
6/15/2020 16:00	6/15/2020 17:00	1008.7
6/15/2020 17:00	6/15/2020 18:00	1029.7
6/15/2020 18:00	6/15/2020 19:00	985.8
6/15/2020 19:00	6/15/2020 20:00	945.2
6/15/2020 20:00	6/15/2020 21:00	926.9
6/15/2020 21:00	6/15/2020 22:00	938.0
6/15/2020 22:00	6/15/2020 23:00	889.8
6/15/2020 23:00	6/16/2020 0:00	829.2
6/16/2020 0:00	6/16/2020 1:00	775.5
6/16/2020 1:00	6/16/2020 2:00	740.8
6/16/2020 2:00	6/16/2020 3:00	723.3
6/16/2020 3:00	6/16/2020 4:00	722.0
6/16/2020 4:00	6/16/2020 5:00	729.0
6/16/2020 5:00	6/16/2020 6:00	752.7
6/16/2020 6:00	6/16/2020 7:00	823.0
6/16/2020 7:00	6/16/2020 8:00	911.3
6/16/2020 8:00	6/16/2020 9:00	979.7
6/16/2020 9:00	6/16/2020 10:00	1016.6
6/16/2020 10:00	6/16/2020 11:00	1033.0
6/16/2020 11:00	6/16/2020 12:00	1048.3
6/16/2020 12:00	6/16/2020 13:00	1051.7
6/16/2020 13:00	6/16/2020 14:00	1033.8
6/16/2020 14:00	6/16/2020 15:00	1013.8
6/16/2020 15:00	6/16/2020 16:00	993.0
6/16/2020 16:00	6/16/2020 17:00	995.0
6/16/2020 17:00	6/16/2020 18:00	1001.0
6/16/2020 18:00	6/16/2020 19:00	984.8
6/16/2020 19:00	6/16/2020 20:00	932.7
6/16/2020 20:00	6/16/2020 21:00	882.0
6/16/2020 21:00	6/16/2020 22:00	817.5
6/16/2020 22:00	6/16/2020 23:00	777.7
6/16/2020 23:00	6/17/2020 0:00	705.7
6/17/2020 0:00	6/17/2020 1:00	631.2
6/17/2020 1:00	6/17/2020 2:00	574.9
6/17/2020 2:00	6/17/2020 3:00	586.0
6/17/2020 3:00	6/17/2020 4:00	588.6
6/17/2020 4:00	6/17/2020 5:00	613.0
6/17/2020 5:00	6/17/2020 6:00	648.3
6/17/2020 6:00	6/17/2020 7:00	671.5
6/17/2020 7:00	6/17/2020 8:00	786.1
6/17/2020 8:00	6/17/2020 9:00	904.1
6/17/2020 9:00	6/17/2020 10:00	961.6
6/17/2020 10:00	6/17/2020 11:00	990.7
6/17/2020 11:00	6/17/2020 12:00	984.5
6/17/2020 12:00	6/17/2020 13:00	964.4
6/17/2020 13:00	6/17/2020 14:00	928.8
6/17/2020 14:00	6/17/2020 15:00	886.1
6/17/2020 15:00	6/17/2020 16:00	880.7
6/17/2020 16:00	6/17/2020 17:00	875.3
6/17/2020 17:00	6/17/2020 18:00	904.2
6/17/2020 18:00	6/17/2020 19:00	899.7

Start Time	End Time	ANL_MW
6/17/2020 19:00	6/17/2020 20:00	933.2
6/17/2020 20:00	6/17/2020 21:00	905.5
6/17/2020 21:00	6/17/2020 22:00	836.1
6/17/2020 22:00	6/17/2020 23:00	708.1
6/17/2020 23:00	6/18/2020 0:00	581.8
6/18/2020 0:00	6/18/2020 1:00	559.9
6/18/2020 1:00	6/18/2020 2:00	536.7
6/18/2020 2:00	6/18/2020 3:00	516.9
6/18/2020 3:00	6/18/2020 4:00	523.6
6/18/2020 4:00	6/18/2020 5:00	523.9
6/18/2020 5:00	6/18/2020 6:00	544.5
6/18/2020 6:00	6/18/2020 7:00	616.7
6/18/2020 7:00	6/18/2020 8:00	731.2
6/18/2020 8:00	6/18/2020 9:00	894.1
6/18/2020 9:00	6/18/2020 10:00	1016.7
6/18/2020 10:00	6/18/2020 11:00	1061.1
6/18/2020 11:00	6/18/2020 12:00	1064.4
6/18/2020 12:00	6/18/2020 13:00	1001.0
6/18/2020 13:00	6/18/2020 14:00	936.1
6/18/2020 14:00	6/18/2020 15:00	881.3
6/18/2020 15:00	6/18/2020 16:00	882.5
6/18/2020 16:00	6/18/2020 17:00	896.7
6/18/2020 17:00	6/18/2020 18:00	903.9
6/18/2020 18:00	6/18/2020 19:00	881.7
6/18/2020 19:00	6/18/2020 20:00	844.2
6/18/2020 20:00	6/18/2020 21:00	818.4
6/18/2020 21:00	6/18/2020 22:00	801.8
6/18/2020 22:00	6/18/2020 23:00	720.7
6/18/2020 23:00	6/19/2020 0:00	629.4
6/19/2020 0:00	6/19/2020 1:00	569.6
6/19/2020 1:00	6/19/2020 2:00	540.0
6/19/2020 2:00	6/19/2020 3:00	511.8
6/19/2020 3:00	6/19/2020 4:00	519.6
6/19/2020 4:00	6/19/2020 5:00	509.7
6/19/2020 5:00	6/19/2020 6:00	536.1
6/19/2020 6:00	6/19/2020 7:00	622.3
6/19/2020 7:00	6/19/2020 8:00	719.0
6/19/2020 8:00	6/19/2020 9:00	891.5
6/19/2020 9:00	6/19/2020 10:00	1026.3
6/19/2020 10:00	6/19/2020 11:00	1088.9
6/19/2020 11:00	6/19/2020 12:00	1041.9
6/19/2020 12:00	6/19/2020 13:00	1035.7
6/19/2020 13:00	6/19/2020 14:00	1015.6
6/19/2020 14:00	6/19/2020 15:00	994.7
6/19/2020 15:00	6/19/2020 16:00	988.6
6/19/2020 16:00	6/19/2020 17:00	981.7
6/19/2020 17:00	6/19/2020 18:00	974.2
6/19/2020 18:00	6/19/2020 19:00	958.0
6/19/2020 19:00	6/19/2020 20:00	973.3
6/19/2020 20:00	6/19/2020 21:00	898.0
6/19/2020 21:00	6/19/2020 22:00	835.8
6/19/2020 22:00	6/19/2020 23:00	810.9
6/19/2020 23:00	6/20/2020 0:00	746.8
6/20/2020 0:00	6/20/2020 1:00	642.4
6/20/2020 1:00	6/20/2020 2:00	592.0
6/20/2020 2:00	6/20/2020 3:00	558.6
6/20/2020 3:00	6/20/2020 4:00	559.7
6/20/2020 4:00	6/20/2020 5:00	577.5
6/20/2020 5:00	6/20/2020 6:00	603.3
6/20/2020 6:00	6/20/2020 7:00	692.4
6/20/2020 7:00	6/20/2020 8:00	828.6
6/20/2020 8:00	6/20/2020 9:00	989.0
6/20/2020 9:00	6/20/2020 10:00	1045.0
6/20/2020 10:00	6/20/2020 11:00	1107.0
6/20/2020 11:00	6/20/2020 12:00	1143.4
6/20/2020 12:00	6/20/2020 13:00	1153.9
6/20/2020 13:00	6/20/2020 14:00	1115.7
6/20/2020 14:00	6/20/2020 15:00	1089.1
6/20/2020 15:00	6/20/2020 16:00	1090.5
6/20/2020 16:00	6/20/2020 17:00	1114.3

Start Time	End Time	ANL_MW
6/20/2020 17:00	6/20/2020 18:00	1130.9
6/20/2020 18:00	6/20/2020 19:00	1122.2
6/20/2020 19:00	6/20/2020 20:00	1074.6
6/20/2020 20:00	6/20/2020 21:00	1014.3
6/20/2020 21:00	6/20/2020 22:00	989.0
6/20/2020 22:00	6/20/2020 23:00	960.9
6/20/2020 23:00	6/21/2020 0:00	881.7
6/21/2020 0:00	6/21/2020 1:00	787.9
6/21/2020 1:00	6/21/2020 2:00	741.8
6/21/2020 2:00	6/21/2020 3:00	759.2
6/21/2020 3:00	6/21/2020 4:00	771.3
6/21/2020 4:00	6/21/2020 5:00	765.2
6/21/2020 5:00	6/21/2020 6:00	751.1
6/21/2020 6:00	6/21/2020 7:00	766.3
6/21/2020 7:00	6/21/2020 8:00	807.1
6/21/2020 8:00	6/21/2020 9:00	900.7
6/21/2020 9:00	6/21/2020 10:00	969.6
6/21/2020 10:00	6/21/2020 11:00	1012.4
6/21/2020 11:00	6/21/2020 12:00	1051.0
6/21/2020 12:00	6/21/2020 13:00	1057.0
6/21/2020 13:00	6/21/2020 14:00	992.0
6/21/2020 14:00	6/21/2020 15:00	970.7
6/21/2020 15:00	6/21/2020 16:00	963.9
6/21/2020 16:00	6/21/2020 17:00	1006.7
6/21/2020 17:00	6/21/2020 18:00	1042.7
6/21/2020 18:00	6/21/2020 19:00	1035.9
6/21/2020 19:00	6/21/2020 20:00	1000.6
6/21/2020 20:00	6/21/2020 21:00	960.4
6/21/2020 21:00	6/21/2020 22:00	937.6
6/21/2020 22:00	6/21/2020 23:00	938.8
6/21/2020 23:00	6/22/2020 0:00	852.1
6/22/2020 0:00	6/22/2020 1:00	815.6
6/22/2020 1:00	6/22/2020 2:00	788.1
6/22/2020 2:00	6/22/2020 3:00	766.2
6/22/2020 3:00	6/22/2020 4:00	761.9
6/22/2020 4:00	6/22/2020 5:00	777.6
6/22/2020 5:00	6/22/2020 6:00	809.3
6/22/2020 6:00	6/22/2020 7:00	891.4
6/22/2020 7:00	6/22/2020 8:00	1004.0
6/22/2020 8:00	6/22/2020 9:00	1025.5
6/22/2020 9:00	6/22/2020 10:00	1103.9
6/22/2020 10:00	6/22/2020 11:00	1109.4
6/22/2020 11:00	6/22/2020 12:00	1140.6
6/22/2020 12:00	6/22/2020 13:00	1154.3
6/22/2020 13:00	6/22/2020 14:00	1149.9
6/22/2020 14:00	6/22/2020 15:00	1112.8
6/22/2020 15:00	6/22/2020 16:00	1087.5
6/22/2020 16:00	6/22/2020 17:00	1101.6
6/22/2020 17:00	6/22/2020 18:00	1105.9
6/22/2020 18:00	6/22/2020 19:00	1070.1
6/22/2020 19:00	6/22/2020 20:00	1037.7
6/22/2020 20:00	6/22/2020 21:00	1016.0
6/22/2020 21:00	6/22/2020 22:00	1009.0
6/22/2020 22:00	6/22/2020 23:00	941.5
6/22/2020 23:00	6/23/2020 0:00	892.1
6/23/2020 0:00	6/23/2020 1:00	850.7
6/23/2020 1:00	6/23/2020 2:00	880.2
6/23/2020 2:00	6/23/2020 3:00	868.2
6/23/2020 3:00	6/23/2020 4:00	855.5
6/23/2020 4:00	6/23/2020 5:00	850.4
6/23/2020 5:00	6/23/2020 6:00	874.4
6/23/2020 6:00	6/23/2020 7:00	899.4
6/23/2020 7:00	6/23/2020 8:00	938.7
6/23/2020 8:00	6/23/2020 9:00	1029.3
6/23/2020 9:00	6/23/2020 10:00	1045.0
6/23/2020 10:00	6/23/2020 11:00	1071.2
6/23/2020 11:00	6/23/2020 12:00	1101.2
6/23/2020 12:00	6/23/2020 13:00	1108.1
6/23/2020 13:00	6/23/2020 14:00	1083.6
6/23/2020 14:00	6/23/2020 15:00	1039.7

Start Time	End Time	ANL_MW
6/23/2020 15:00	6/23/2020 16:00	1035.1
6/23/2020 16:00	6/23/2020 17:00	1050.1
6/23/2020 17:00	6/23/2020 18:00	1044.2
6/23/2020 18:00	6/23/2020 19:00	1049.7
6/23/2020 19:00	6/23/2020 20:00	1038.9
6/23/2020 20:00	6/23/2020 21:00	1013.2
6/23/2020 21:00	6/23/2020 22:00	988.7
6/23/2020 22:00	6/23/2020 23:00	919.4
6/23/2020 23:00	6/24/2020 0:00	846.6
6/24/2020 0:00	6/24/2020 1:00	789.1
6/24/2020 1:00	6/24/2020 2:00	765.8
6/24/2020 2:00	6/24/2020 3:00	762.6
6/24/2020 3:00	6/24/2020 4:00	755.9
6/24/2020 4:00	6/24/2020 5:00	766.4
6/24/2020 5:00	6/24/2020 6:00	787.6
6/24/2020 6:00	6/24/2020 7:00	804.0
6/24/2020 7:00	6/24/2020 8:00	893.9
6/24/2020 8:00	6/24/2020 9:00	1017.2
6/24/2020 9:00	6/24/2020 10:00	1055.8
6/24/2020 10:00	6/24/2020 11:00	1076.3
6/24/2020 11:00	6/24/2020 12:00	1103.5
6/24/2020 12:00	6/24/2020 13:00	1115.4
6/24/2020 13:00	6/24/2020 14:00	1119.0
6/24/2020 14:00	6/24/2020 15:00	1091.7
6/24/2020 15:00	6/24/2020 16:00	1065.9
6/24/2020 16:00	6/24/2020 17:00	1048.1
6/24/2020 17:00	6/24/2020 18:00	1031.8
6/24/2020 18:00	6/24/2020 19:00	954.2
6/24/2020 19:00	6/24/2020 20:00	869.7
6/24/2020 20:00	6/24/2020 21:00	834.8
6/24/2020 21:00	6/24/2020 22:00	833.4
6/24/2020 22:00	6/24/2020 23:00	836.5
6/24/2020 23:00	6/25/2020 0:00	764.1
6/25/2020 0:00	6/25/2020 1:00	725.8
6/25/2020 1:00	6/25/2020 2:00	746.7
6/25/2020 2:00	6/25/2020 3:00	720.2
6/25/2020 3:00	6/25/2020 4:00	683.2
6/25/2020 4:00	6/25/2020 5:00	687.2
6/25/2020 5:00	6/25/2020 6:00	724.6
6/25/2020 6:00	6/25/2020 7:00	740.8
6/25/2020 7:00	6/25/2020 8:00	830.6
6/25/2020 8:00	6/25/2020 9:00	912.4
6/25/2020 9:00	6/25/2020 10:00	982.2
6/25/2020 10:00	6/25/2020 11:00	1019.2
6/25/2020 11:00	6/25/2020 12:00	1054.9
6/25/2020 12:00	6/25/2020 13:00	1063.6
6/25/2020 13:00	6/25/2020 14:00	1066.6
6/25/2020 14:00	6/25/2020 15:00	1049.1
6/25/2020 15:00	6/25/2020 16:00	1028.2
6/25/2020 16:00	6/25/2020 17:00	1045.2
6/25/2020 17:00	6/25/2020 18:00	1026.1
6/25/2020 18:00	6/25/2020 19:00	968.0
6/25/2020 19:00	6/25/2020 20:00	945.2
6/25/2020 20:00	6/25/2020 21:00	906.6
6/25/2020 21:00	6/25/2020 22:00	897.8
6/25/2020 22:00	6/25/2020 23:00	834.0
6/25/2020 23:00	6/26/2020 0:00	754.7
6/26/2020 0:00	6/26/2020 1:00	711.4
6/26/2020 1:00	6/26/2020 2:00	680.6
6/26/2020 2:00	6/26/2020 3:00	682.3
6/26/2020 3:00	6/26/2020 4:00	697.2
6/26/2020 4:00	6/26/2020 5:00	728.0
6/26/2020 5:00	6/26/2020 6:00	776.1
6/26/2020 6:00	6/26/2020 7:00	872.9
6/26/2020 7:00	6/26/2020 8:00	965.5
6/26/2020 8:00	6/26/2020 9:00	1082.3
6/26/2020 9:00	6/26/2020 10:00	1155.7
6/26/2020 10:00	6/26/2020 11:00	1167.8
6/26/2020 11:00	6/26/2020 12:00	1164.9
6/26/2020 12:00	6/26/2020 13:00	1156.7

Start Time	End Time	ANL_MW
6/26/2020 13:00	6/26/2020 14:00	1124.5
6/26/2020 14:00	6/26/2020 15:00	1078.2
6/26/2020 15:00	6/26/2020 16:00	1051.0
6/26/2020 16:00	6/26/2020 17:00	1048.3
6/26/2020 17:00	6/26/2020 18:00	1076.6
6/26/2020 18:00	6/26/2020 19:00	1048.7
6/26/2020 19:00	6/26/2020 20:00	1031.9
6/26/2020 20:00	6/26/2020 21:00	981.2
6/26/2020 21:00	6/26/2020 22:00	998.9
6/26/2020 22:00	6/26/2020 23:00	989.4
6/26/2020 23:00	6/27/2020 0:00	922.4
6/27/2020 0:00	6/27/2020 1:00	899.7
6/27/2020 1:00	6/27/2020 2:00	841.5
6/27/2020 2:00	6/27/2020 3:00	807.8
6/27/2020 3:00	6/27/2020 4:00	781.5
6/27/2020 4:00	6/27/2020 5:00	768.8
6/27/2020 5:00	6/27/2020 6:00	760.2
6/27/2020 6:00	6/27/2020 7:00	794.9
6/27/2020 7:00	6/27/2020 8:00	874.6
6/27/2020 8:00	6/27/2020 9:00	959.6
6/27/2020 9:00	6/27/2020 10:00	1050.3
6/27/2020 10:00	6/27/2020 11:00	1118.8
6/27/2020 11:00	6/27/2020 12:00	1147.7
6/27/2020 12:00	6/27/2020 13:00	1151.3
6/27/2020 13:00	6/27/2020 14:00	1125.6
6/27/2020 14:00	6/27/2020 15:00	1091.8
6/27/2020 15:00	6/27/2020 16:00	1061.5
6/27/2020 16:00	6/27/2020 17:00	1043.1
6/27/2020 17:00	6/27/2020 18:00	1029.3
6/27/2020 18:00	6/27/2020 19:00	1023.3
6/27/2020 19:00	6/27/2020 20:00	1030.9
6/27/2020 20:00	6/27/2020 21:00	1008.6
6/27/2020 21:00	6/27/2020 22:00	1006.0
6/27/2020 22:00	6/27/2020 23:00	969.1
6/27/2020 23:00	6/28/2020 0:00	883.4
6/28/2020 0:00	6/28/2020 1:00	831.4
6/28/2020 1:00	6/28/2020 2:00	773.5
6/28/2020 2:00	6/28/2020 3:00	799.6
6/28/2020 3:00	6/28/2020 4:00	786.5
6/28/2020 4:00	6/28/2020 5:00	794.7
6/28/2020 5:00	6/28/2020 6:00	721.0
6/28/2020 6:00	6/28/2020 7:00	694.6
6/28/2020 7:00	6/28/2020 8:00	766.8
6/28/2020 8:00	6/28/2020 9:00	887.2
6/28/2020 9:00	6/28/2020 10:00	923.3
6/28/2020 10:00	6/28/2020 11:00	936.1
6/28/2020 11:00	6/28/2020 12:00	937.9
6/28/2020 12:00	6/28/2020 13:00	951.6
6/28/2020 13:00	6/28/2020 14:00	957.1
6/28/2020 14:00	6/28/2020 15:00	934.3
6/28/2020 15:00	6/28/2020 16:00	915.6
6/28/2020 16:00	6/28/2020 17:00	902.6
6/28/2020 17:00	6/28/2020 18:00	919.7
6/28/2020 18:00	6/28/2020 19:00	899.9
6/28/2020 19:00	6/28/2020 20:00	903.6
6/28/2020 20:00	6/28/2020 21:00	885.0
6/28/2020 21:00	6/28/2020 22:00	885.5
6/28/2020 22:00	6/28/2020 23:00	859.5
6/28/2020 23:00	6/29/2020 0:00	807.0
6/29/2020 0:00	6/29/2020 1:00	817.0
6/29/2020 1:00	6/29/2020 2:00	807.3
6/29/2020 2:00	6/29/2020 3:00	783.6
6/29/2020 3:00	6/29/2020 4:00	782.3
6/29/2020 4:00	6/29/2020 5:00	789.4
6/29/2020 5:00	6/29/2020 6:00	800.6
6/29/2020 6:00	6/29/2020 7:00	782.9
6/29/2020 7:00	6/29/2020 8:00	883.4
6/29/2020 8:00	6/29/2020 9:00	987.7
6/29/2020 9:00	6/29/2020 10:00	1038.2
6/29/2020 10:00	6/29/2020 11:00	1068.8

Start Time	End Time	ANL_MW
6/29/2020 11:00	6/29/2020 12:00	1080.1
6/29/2020 12:00	6/29/2020 13:00	1059.6
6/29/2020 13:00	6/29/2020 14:00	1028.8
6/29/2020 14:00	6/29/2020 15:00	1007.8
6/29/2020 15:00	6/29/2020 16:00	998.9
6/29/2020 16:00	6/29/2020 17:00	1025.3
6/29/2020 17:00	6/29/2020 18:00	1041.5
6/29/2020 18:00	6/29/2020 19:00	992.0
6/29/2020 19:00	6/29/2020 20:00	939.2
6/29/2020 20:00	6/29/2020 21:00	910.8
6/29/2020 21:00	6/29/2020 22:00	923.7
6/29/2020 22:00	6/29/2020 23:00	933.4
6/29/2020 23:00	6/30/2020 0:00	883.9
6/30/2020 0:00	6/30/2020 1:00	801.6
6/30/2020 1:00	6/30/2020 2:00	806.9
6/30/2020 2:00	6/30/2020 3:00	799.6
6/30/2020 3:00	6/30/2020 4:00	799.5
6/30/2020 4:00	6/30/2020 5:00	815.8
6/30/2020 5:00	6/30/2020 6:00	759.7
6/30/2020 6:00	6/30/2020 7:00	834.2
6/30/2020 7:00	6/30/2020 8:00	932.1
6/30/2020 8:00	6/30/2020 9:00	930.6
6/30/2020 9:00	6/30/2020 10:00	959.9
6/30/2020 10:00	6/30/2020 11:00	993.4
6/30/2020 11:00	6/30/2020 12:00	1024.2
6/30/2020 12:00	6/30/2020 13:00	1055.1
6/30/2020 13:00	6/30/2020 14:00	1070.7
6/30/2020 14:00	6/30/2020 15:00	1069.4
6/30/2020 15:00	6/30/2020 16:00	1053.4
6/30/2020 16:00	6/30/2020 17:00	1060.8
6/30/2020 17:00	6/30/2020 18:00	1078.1
6/30/2020 18:00	6/30/2020 19:00	1064.8
6/30/2020 19:00	6/30/2020 20:00	1027.0
6/30/2020 20:00	6/30/2020 21:00	999.4
6/30/2020 21:00	6/30/2020 22:00	979.5
6/30/2020 22:00	6/30/2020 23:00	899.6
6/30/2020 23:00	7/1/2020 0:00	885.5
7/1/2020 0:00	7/1/2020 1:00	843.1
7/1/2020 1:00	7/1/2020 2:00	809.8
7/1/2020 2:00	7/1/2020 3:00	796.9
7/1/2020 3:00	7/1/2020 4:00	856.7
7/1/2020 4:00	7/1/2020 5:00	866.8
7/1/2020 5:00	7/1/2020 6:00	868.4
7/1/2020 6:00	7/1/2020 7:00	848.2
7/1/2020 7:00	7/1/2020 8:00	878.4
7/1/2020 8:00	7/1/2020 9:00	902.5
7/1/2020 9:00	7/1/2020 10:00	974.8
7/1/2020 10:00	7/1/2020 11:00	1035.3
7/1/2020 11:00	7/1/2020 12:00	1079.9
7/1/2020 12:00	7/1/2020 13:00	1100.0
7/1/2020 13:00	7/1/2020 14:00	1090.3
7/1/2020 14:00	7/1/2020 15:00	1072.2
7/1/2020 15:00	7/1/2020 16:00	1059.3
7/1/2020 16:00	7/1/2020 17:00	1073.3
7/1/2020 17:00	7/1/2020 18:00	1068.6
7/1/2020 18:00	7/1/2020 19:00	1039.7
7/1/2020 19:00	7/1/2020 20:00	1030.2
7/1/2020 20:00	7/1/2020 21:00	999.6
7/1/2020 21:00	7/1/2020 22:00	973.4
7/1/2020 22:00	7/1/2020 23:00	897.4
7/1/2020 23:00	7/2/2020 0:00	846.6
7/2/2020 0:00	7/2/2020 1:00	813.0
7/2/2020 1:00	7/2/2020 2:00	793.8
7/2/2020 2:00	7/2/2020 3:00	812.5
7/2/2020 3:00	7/2/2020 4:00	803.3
7/2/2020 4:00	7/2/2020 5:00	811.3
7/2/2020 5:00	7/2/2020 6:00	838.9
7/2/2020 6:00	7/2/2020 7:00	908.1
7/2/2020 7:00	7/2/2020 8:00	941.8
7/2/2020 8:00	7/2/2020 9:00	1022.1

Start Time	End Time	ANL_MW
7/2/2020 9:00	7/2/2020 10:00	1074.2
7/2/2020 10:00	7/2/2020 11:00	1042.0
7/2/2020 11:00	7/2/2020 12:00	1053.6
7/2/2020 12:00	7/2/2020 13:00	1071.1
7/2/2020 13:00	7/2/2020 14:00	1070.8
7/2/2020 14:00	7/2/2020 15:00	1030.6
7/2/2020 15:00	7/2/2020 16:00	1016.2
7/2/2020 16:00	7/2/2020 17:00	1030.5
7/2/2020 17:00	7/2/2020 18:00	1048.8
7/2/2020 18:00	7/2/2020 19:00	1085.6
7/2/2020 19:00	7/2/2020 20:00	1084.1
7/2/2020 20:00	7/2/2020 21:00	1020.8
7/2/2020 21:00	7/2/2020 22:00	1001.7
7/2/2020 22:00	7/2/2020 23:00	961.7
7/2/2020 23:00	7/3/2020 0:00	891.2
7/3/2020 0:00	7/3/2020 1:00	878.6
7/3/2020 1:00	7/3/2020 2:00	826.2
7/3/2020 2:00	7/3/2020 3:00	754.3
7/3/2020 3:00	7/3/2020 4:00	710.2
7/3/2020 4:00	7/3/2020 5:00	701.1
7/3/2020 5:00	7/3/2020 6:00	756.3
7/3/2020 6:00	7/3/2020 7:00	838.6
7/3/2020 7:00	7/3/2020 8:00	934.0
7/3/2020 8:00	7/3/2020 9:00	920.5
7/3/2020 9:00	7/3/2020 10:00	993.7
7/3/2020 10:00	7/3/2020 11:00	1068.1
7/3/2020 11:00	7/3/2020 12:00	1107.4
7/3/2020 12:00	7/3/2020 13:00	1094.9
7/3/2020 13:00	7/3/2020 14:00	1018.0
7/3/2020 14:00	7/3/2020 15:00	1011.5
7/3/2020 15:00	7/3/2020 16:00	1017.8
7/3/2020 16:00	7/3/2020 17:00	1038.8
7/3/2020 17:00	7/3/2020 18:00	1046.1
7/3/2020 18:00	7/3/2020 19:00	1019.6
7/3/2020 19:00	7/3/2020 20:00	989.5
7/3/2020 20:00	7/3/2020 21:00	959.2
7/3/2020 21:00	7/3/2020 22:00	932.0
7/3/2020 22:00	7/3/2020 23:00	856.0
7/3/2020 23:00	7/4/2020 0:00	784.7
7/4/2020 0:00	7/4/2020 1:00	708.4
7/4/2020 1:00	7/4/2020 2:00	658.0
7/4/2020 2:00	7/4/2020 3:00	678.7
7/4/2020 3:00	7/4/2020 4:00	663.4
7/4/2020 4:00	7/4/2020 5:00	681.7
7/4/2020 5:00	7/4/2020 6:00	716.9
7/4/2020 6:00	7/4/2020 7:00	749.3
7/4/2020 7:00	7/4/2020 8:00	819.1
7/4/2020 8:00	7/4/2020 9:00	914.7
7/4/2020 9:00	7/4/2020 10:00	1008.2
7/4/2020 10:00	7/4/2020 11:00	1034.1
7/4/2020 11:00	7/4/2020 12:00	1038.9
7/4/2020 12:00	7/4/2020 13:00	1024.9
7/4/2020 13:00	7/4/2020 14:00	1001.3
7/4/2020 14:00	7/4/2020 15:00	1010.5
7/4/2020 15:00	7/4/2020 16:00	1019.1
7/4/2020 16:00	7/4/2020 17:00	1032.9
7/4/2020 17:00	7/4/2020 18:00	1050.5
7/4/2020 18:00	7/4/2020 19:00	1019.1
7/4/2020 19:00	7/4/2020 20:00	982.5
7/4/2020 20:00	7/4/2020 21:00	921.4
7/4/2020 21:00	7/4/2020 22:00	884.5
7/4/2020 22:00	7/4/2020 23:00	905.9
7/4/2020 23:00	7/5/2020 0:00	872.5
7/5/2020 0:00	7/5/2020 1:00	848.4
7/5/2020 1:00	7/5/2020 2:00	811.7
7/5/2020 2:00	7/5/2020 3:00	800.7
7/5/2020 3:00	7/5/2020 4:00	791.9
7/5/2020 4:00	7/5/2020 5:00	812.9
7/5/2020 5:00	7/5/2020 6:00	822.4
7/5/2020 6:00	7/5/2020 7:00	853.2

Start Time	End Time	ANL_MW
7/5/2020 7:00	7/5/2020 8:00	848.4
7/5/2020 8:00	7/5/2020 9:00	915.6
7/5/2020 9:00	7/5/2020 10:00	981.8
7/5/2020 10:00	7/5/2020 11:00	974.0
7/5/2020 11:00	7/5/2020 12:00	1000.0
7/5/2020 12:00	7/5/2020 13:00	1049.4
7/5/2020 13:00	7/5/2020 14:00	1038.7
7/5/2020 14:00	7/5/2020 15:00	1025.3
7/5/2020 15:00	7/5/2020 16:00	1014.8
7/5/2020 16:00	7/5/2020 17:00	989.1
7/5/2020 17:00	7/5/2020 18:00	987.2
7/5/2020 18:00	7/5/2020 19:00	962.2
7/5/2020 19:00	7/5/2020 20:00	992.0
7/5/2020 20:00	7/5/2020 21:00	970.0
7/5/2020 21:00	7/5/2020 22:00	936.3
7/5/2020 22:00	7/5/2020 23:00	875.8
7/5/2020 23:00	7/6/2020 0:00	812.5
7/6/2020 0:00	7/6/2020 1:00	865.7
7/6/2020 1:00	7/6/2020 2:00	856.0
7/6/2020 2:00	7/6/2020 3:00	839.0
7/6/2020 3:00	7/6/2020 4:00	815.3
7/6/2020 4:00	7/6/2020 5:00	795.6
7/6/2020 5:00	7/6/2020 6:00	805.9
7/6/2020 6:00	7/6/2020 7:00	853.5
7/6/2020 7:00	7/6/2020 8:00	968.2
7/6/2020 8:00	7/6/2020 9:00	1056.0
7/6/2020 9:00	7/6/2020 10:00	1045.8
7/6/2020 10:00	7/6/2020 11:00	1062.3
7/6/2020 11:00	7/6/2020 12:00	1088.6
7/6/2020 12:00	7/6/2020 13:00	1098.7
7/6/2020 13:00	7/6/2020 14:00	1080.7
7/6/2020 14:00	7/6/2020 15:00	1048.7
7/6/2020 15:00	7/6/2020 16:00	1048.0
7/6/2020 16:00	7/6/2020 17:00	1074.9
7/6/2020 17:00	7/6/2020 18:00	1088.5
7/6/2020 18:00	7/6/2020 19:00	1049.0
7/6/2020 19:00	7/6/2020 20:00	1019.8
7/6/2020 20:00	7/6/2020 21:00	994.2
7/6/2020 21:00	7/6/2020 22:00	982.7
7/6/2020 22:00	7/6/2020 23:00	929.5
7/6/2020 23:00	7/7/2020 0:00	927.6
7/7/2020 0:00	7/7/2020 1:00	876.0
7/7/2020 1:00	7/7/2020 2:00	839.3
7/7/2020 2:00	7/7/2020 3:00	828.4
7/7/2020 3:00	7/7/2020 4:00	821.2
7/7/2020 4:00	7/7/2020 5:00	823.0
7/7/2020 5:00	7/7/2020 6:00	844.8
7/7/2020 6:00	7/7/2020 7:00	917.4
7/7/2020 7:00	7/7/2020 8:00	937.8
7/7/2020 8:00	7/7/2020 9:00	995.4
7/7/2020 9:00	7/7/2020 10:00	1032.5
7/7/2020 10:00	7/7/2020 11:00	1052.5
7/7/2020 11:00	7/7/2020 12:00	1066.2
7/7/2020 12:00	7/7/2020 13:00	1066.3
7/7/2020 13:00	7/7/2020 14:00	1043.4
7/7/2020 14:00	7/7/2020 15:00	1029.7
7/7/2020 15:00	7/7/2020 16:00	1022.4
7/7/2020 16:00	7/7/2020 17:00	1021.3
7/7/2020 17:00	7/7/2020 18:00	1043.9
7/7/2020 18:00	7/7/2020 19:00	997.5
7/7/2020 19:00	7/7/2020 20:00	953.8
7/7/2020 20:00	7/7/2020 21:00	887.8
7/7/2020 21:00	7/7/2020 22:00	861.3
7/7/2020 22:00	7/7/2020 23:00	830.5
7/7/2020 23:00	7/8/2020 0:00	759.2
7/8/2020 0:00	7/8/2020 1:00	752.3
7/8/2020 1:00	7/8/2020 2:00	717.8
7/8/2020 2:00	7/8/2020 3:00	710.9
7/8/2020 3:00	7/8/2020 4:00	717.7
7/8/2020 4:00	7/8/2020 5:00	726.6

Start Time	End Time	ANL_MW
7/8/2020 5:00	7/8/2020 6:00	753.3
7/8/2020 6:00	7/8/2020 7:00	752.1
7/8/2020 7:00	7/8/2020 8:00	793.8
7/8/2020 8:00	7/8/2020 9:00	871.4
7/8/2020 9:00	7/8/2020 10:00	906.2
7/8/2020 10:00	7/8/2020 11:00	905.0
7/8/2020 11:00	7/8/2020 12:00	895.1
7/8/2020 12:00	7/8/2020 13:00	839.8
7/8/2020 13:00	7/8/2020 14:00	840.9
7/8/2020 14:00	7/8/2020 15:00	787.3
7/8/2020 15:00	7/8/2020 16:00	788.7
7/8/2020 16:00	7/8/2020 17:00	825.2
7/8/2020 17:00	7/8/2020 18:00	826.7
7/8/2020 18:00	7/8/2020 19:00	801.0
7/8/2020 19:00	7/8/2020 20:00	777.5
7/8/2020 20:00	7/8/2020 21:00	757.7
7/8/2020 21:00	7/8/2020 22:00	755.0
7/8/2020 22:00	7/8/2020 23:00	673.0
7/8/2020 23:00	7/9/2020 0:00	511.4
7/9/2020 0:00	7/9/2020 1:00	508.0
7/9/2020 1:00	7/9/2020 2:00	528.8
7/9/2020 2:00	7/9/2020 3:00	529.8
7/9/2020 3:00	7/9/2020 4:00	534.5
7/9/2020 4:00	7/9/2020 5:00	614.9
7/9/2020 5:00	7/9/2020 6:00	713.6
7/9/2020 6:00	7/9/2020 7:00	823.2
7/9/2020 7:00	7/9/2020 8:00	882.6
7/9/2020 8:00	7/9/2020 9:00	954.1
7/9/2020 9:00	7/9/2020 10:00	1021.3
7/9/2020 10:00	7/9/2020 11:00	1058.0
7/9/2020 11:00	7/9/2020 12:00	1086.7
7/9/2020 12:00	7/9/2020 13:00	1102.8
7/9/2020 13:00	7/9/2020 14:00	1105.1
7/9/2020 14:00	7/9/2020 15:00	1098.3
7/9/2020 15:00	7/9/2020 16:00	1114.4
7/9/2020 16:00	7/9/2020 17:00	1141.8
7/9/2020 17:00	7/9/2020 18:00	1168.6
7/9/2020 18:00	7/9/2020 19:00	1137.4
7/9/2020 19:00	7/9/2020 20:00	1099.9
7/9/2020 20:00	7/9/2020 21:00	1071.2
7/9/2020 21:00	7/9/2020 22:00	1054.9
7/9/2020 22:00	7/9/2020 23:00	988.1
7/9/2020 23:00	7/10/2020 0:00	904.5
7/10/2020 0:00	7/10/2020 1:00	901.9
7/10/2020 1:00	7/10/2020 2:00	858.4
7/10/2020 2:00	7/10/2020 3:00	817.8
7/10/2020 3:00	7/10/2020 4:00	797.0
7/10/2020 4:00	7/10/2020 5:00	734.2
7/10/2020 5:00	7/10/2020 6:00	765.9
7/10/2020 6:00	7/10/2020 7:00	850.1
7/10/2020 7:00	7/10/2020 8:00	952.4
7/10/2020 8:00	7/10/2020 9:00	1081.7
7/10/2020 9:00	7/10/2020 10:00	1151.7
7/10/2020 10:00	7/10/2020 11:00	1143.1
7/10/2020 11:00	7/10/2020 12:00	1174.4
7/10/2020 12:00	7/10/2020 13:00	1193.4
7/10/2020 13:00	7/10/2020 14:00	1189.0
7/10/2020 14:00	7/10/2020 15:00	1176.9
7/10/2020 15:00	7/10/2020 16:00	1174.7
7/10/2020 16:00	7/10/2020 17:00	1172.7
7/10/2020 17:00	7/10/2020 18:00	1171.8
7/10/2020 18:00	7/10/2020 19:00	1137.5
7/10/2020 19:00	7/10/2020 20:00	1081.0
7/10/2020 20:00	7/10/2020 21:00	1016.2
7/10/2020 21:00	7/10/2020 22:00	975.9
7/10/2020 22:00	7/10/2020 23:00	928.3
7/10/2020 23:00	7/11/2020 0:00	910.3
7/11/2020 0:00	7/11/2020 1:00	823.2
7/11/2020 1:00	7/11/2020 2:00	818.8
7/11/2020 2:00	7/11/2020 3:00	835.3

Start Time	End Time	ANL_MW
7/11/2020 3:00	7/11/2020 4:00	818.2
7/11/2020 4:00	7/11/2020 5:00	812.7
7/11/2020 5:00	7/11/2020 6:00	811.6
7/11/2020 6:00	7/11/2020 7:00	837.6
7/11/2020 7:00	7/11/2020 8:00	894.6
7/11/2020 8:00	7/11/2020 9:00	974.2
7/11/2020 9:00	7/11/2020 10:00	982.7
7/11/2020 10:00	7/11/2020 11:00	984.4
7/11/2020 11:00	7/11/2020 12:00	997.5
7/11/2020 12:00	7/11/2020 13:00	1003.1
7/11/2020 13:00	7/11/2020 14:00	967.2
7/11/2020 14:00	7/11/2020 15:00	948.5
7/11/2020 15:00	7/11/2020 16:00	949.7
7/11/2020 16:00	7/11/2020 17:00	959.5
7/11/2020 17:00	7/11/2020 18:00	955.2
7/11/2020 18:00	7/11/2020 19:00	911.3
7/11/2020 19:00	7/11/2020 20:00	841.3
7/11/2020 20:00	7/11/2020 21:00	870.9
7/11/2020 21:00	7/11/2020 22:00	877.6
7/11/2020 22:00	7/11/2020 23:00	821.0
7/11/2020 23:00	7/12/2020 0:00	744.0
7/12/2020 0:00	7/12/2020 1:00	661.9
7/12/2020 1:00	7/12/2020 2:00	628.4
7/12/2020 2:00	7/12/2020 3:00	645.2
7/12/2020 3:00	7/12/2020 4:00	629.3
7/12/2020 4:00	7/12/2020 5:00	613.8
7/12/2020 5:00	7/12/2020 6:00	647.7
7/12/2020 6:00	7/12/2020 7:00	610.0
7/12/2020 7:00	7/12/2020 8:00	674.8
7/12/2020 8:00	7/12/2020 9:00	787.1
7/12/2020 9:00	7/12/2020 10:00	802.0
7/12/2020 10:00	7/12/2020 11:00	803.0
7/12/2020 11:00	7/12/2020 12:00	820.1
7/12/2020 12:00	7/12/2020 13:00	809.0
7/12/2020 13:00	7/12/2020 14:00	822.4
7/12/2020 14:00	7/12/2020 15:00	833.9
7/12/2020 15:00	7/12/2020 16:00	872.2
7/12/2020 16:00	7/12/2020 17:00	894.7
7/12/2020 17:00	7/12/2020 18:00	914.4
7/12/2020 18:00	7/12/2020 19:00	879.0
7/12/2020 19:00	7/12/2020 20:00	856.7
7/12/2020 20:00	7/12/2020 21:00	815.6
7/12/2020 21:00	7/12/2020 22:00	764.7
7/12/2020 22:00	7/12/2020 23:00	695.9
7/12/2020 23:00	7/13/2020 0:00	627.3
7/13/2020 0:00	7/13/2020 1:00	553.1
7/13/2020 1:00	7/13/2020 2:00	502.4
7/13/2020 2:00	7/13/2020 3:00	514.4
7/13/2020 3:00	7/13/2020 4:00	539.6
7/13/2020 4:00	7/13/2020 5:00	585.4
7/13/2020 5:00	7/13/2020 6:00	625.6
7/13/2020 6:00	7/13/2020 7:00	730.0
7/13/2020 7:00	7/13/2020 8:00	892.0
7/13/2020 8:00	7/13/2020 9:00	1004.3
7/13/2020 9:00	7/13/2020 10:00	1077.6
7/13/2020 10:00	7/13/2020 11:00	1043.0
7/13/2020 11:00	7/13/2020 12:00	1065.1
7/13/2020 12:00	7/13/2020 13:00	1041.0
7/13/2020 13:00	7/13/2020 14:00	1027.5
7/13/2020 14:00	7/13/2020 15:00	1022.3
7/13/2020 15:00	7/13/2020 16:00	1024.6
7/13/2020 16:00	7/13/2020 17:00	1082.3
7/13/2020 17:00	7/13/2020 18:00	1116.5
7/13/2020 18:00	7/13/2020 19:00	1120.8
7/13/2020 19:00	7/13/2020 20:00	1097.3
7/13/2020 20:00	7/13/2020 21:00	1067.8
7/13/2020 21:00	7/13/2020 22:00	1053.6
7/13/2020 22:00	7/13/2020 23:00	971.7
7/13/2020 23:00	7/14/2020 0:00	890.0
7/14/2020 0:00	7/14/2020 1:00	820.9

Start Time	End Time	ANL_MW
7/14/2020 1:00	7/14/2020 2:00	847.5
7/14/2020 2:00	7/14/2020 3:00	859.5
7/14/2020 3:00	7/14/2020 4:00	857.9
7/14/2020 4:00	7/14/2020 5:00	860.8
7/14/2020 5:00	7/14/2020 6:00	871.3
7/14/2020 6:00	7/14/2020 7:00	855.1
7/14/2020 7:00	7/14/2020 8:00	922.2
7/14/2020 8:00	7/14/2020 9:00	987.6
7/14/2020 9:00	7/14/2020 10:00	1027.5
7/14/2020 10:00	7/14/2020 11:00	1029.3
7/14/2020 11:00	7/14/2020 12:00	1046.1
7/14/2020 12:00	7/14/2020 13:00	1034.1
7/14/2020 13:00	7/14/2020 14:00	1019.2
7/14/2020 14:00	7/14/2020 15:00	959.2
7/14/2020 15:00	7/14/2020 16:00	926.6
7/14/2020 16:00	7/14/2020 17:00	911.0
7/14/2020 17:00	7/14/2020 18:00	892.8
7/14/2020 18:00	7/14/2020 19:00	837.3
7/14/2020 19:00	7/14/2020 20:00	792.4
7/14/2020 20:00	7/14/2020 21:00	781.1
7/14/2020 21:00	7/14/2020 22:00	779.8
7/14/2020 22:00	7/14/2020 23:00	742.3
7/14/2020 23:00	7/15/2020 0:00	765.1
7/15/2020 0:00	7/15/2020 1:00	757.2
7/15/2020 1:00	7/15/2020 2:00	718.4
7/15/2020 2:00	7/15/2020 3:00	711.9
7/15/2020 3:00	7/15/2020 4:00	695.2
7/15/2020 4:00	7/15/2020 5:00	675.3
7/15/2020 5:00	7/15/2020 6:00	688.2
7/15/2020 6:00	7/15/2020 7:00	750.1
7/15/2020 7:00	7/15/2020 8:00	841.8
7/15/2020 8:00	7/15/2020 9:00	861.9
7/15/2020 9:00	7/15/2020 10:00	901.5
7/15/2020 10:00	7/15/2020 11:00	911.7
7/15/2020 11:00	7/15/2020 12:00	934.0
7/15/2020 12:00	7/15/2020 13:00	921.2
7/15/2020 13:00	7/15/2020 14:00	899.5
7/15/2020 14:00	7/15/2020 15:00	889.2
7/15/2020 15:00	7/15/2020 16:00	886.0
7/15/2020 16:00	7/15/2020 17:00	915.1
7/15/2020 17:00	7/15/2020 18:00	946.8
7/15/2020 18:00	7/15/2020 19:00	934.8
7/15/2020 19:00	7/15/2020 20:00	947.2
7/15/2020 20:00	7/15/2020 21:00	925.5
7/15/2020 21:00	7/15/2020 22:00	925.6
7/15/2020 22:00	7/15/2020 23:00	867.7
7/15/2020 23:00	7/16/2020 0:00	843.0
7/16/2020 0:00	7/16/2020 1:00	796.6
7/16/2020 1:00	7/16/2020 2:00	744.6
7/16/2020 2:00	7/16/2020 3:00	632.1
7/16/2020 3:00	7/16/2020 4:00	645.0
7/16/2020 4:00	7/16/2020 5:00	660.8
7/16/2020 5:00	7/16/2020 6:00	686.2
7/16/2020 6:00	7/16/2020 7:00	752.2
7/16/2020 7:00	7/16/2020 8:00	867.1
7/16/2020 8:00	7/16/2020 9:00	945.6
7/16/2020 9:00	7/16/2020 10:00	955.5
7/16/2020 10:00	7/16/2020 11:00	964.5
7/16/2020 11:00	7/16/2020 12:00	981.4
7/16/2020 12:00	7/16/2020 13:00	994.9
7/16/2020 13:00	7/16/2020 14:00	1000.4
7/16/2020 14:00	7/16/2020 15:00	981.8
7/16/2020 15:00	7/16/2020 16:00	985.8
7/16/2020 16:00	7/16/2020 17:00	1024.7
7/16/2020 17:00	7/16/2020 18:00	1049.0
7/16/2020 18:00	7/16/2020 19:00	1023.6
7/16/2020 19:00	7/16/2020 20:00	998.4
7/16/2020 20:00	7/16/2020 21:00	973.7
7/16/2020 21:00	7/16/2020 22:00	974.2
7/16/2020 22:00	7/16/2020 23:00	901.2

Start Time	End Time	ANL_MW
7/16/2020 23:00	7/17/2020 0:00	825.9
7/17/2020 0:00	7/17/2020 1:00	762.2
7/17/2020 1:00	7/17/2020 2:00	727.3
7/17/2020 2:00	7/17/2020 3:00	704.3
7/17/2020 3:00	7/17/2020 4:00	708.0
7/17/2020 4:00	7/17/2020 5:00	713.5
7/17/2020 5:00	7/17/2020 6:00	737.6
7/17/2020 6:00	7/17/2020 7:00	804.6
7/17/2020 7:00	7/17/2020 8:00	906.9
7/17/2020 8:00	7/17/2020 9:00	993.4
7/17/2020 9:00	7/17/2020 10:00	1039.7
7/17/2020 10:00	7/17/2020 11:00	1053.7
7/17/2020 11:00	7/17/2020 12:00	1066.0
7/17/2020 12:00	7/17/2020 13:00	1047.6
7/17/2020 13:00	7/17/2020 14:00	1020.1
7/17/2020 14:00	7/17/2020 15:00	993.4
7/17/2020 15:00	7/17/2020 16:00	977.3
7/17/2020 16:00	7/17/2020 17:00	997.1
7/17/2020 17:00	7/17/2020 18:00	974.4
7/17/2020 18:00	7/17/2020 19:00	929.7
7/17/2020 19:00	7/17/2020 20:00	913.4
7/17/2020 20:00	7/17/2020 21:00	912.5
7/17/2020 21:00	7/17/2020 22:00	904.7
7/17/2020 22:00	7/17/2020 23:00	876.7
7/17/2020 23:00	7/18/2020 0:00	854.4
7/18/2020 0:00	7/18/2020 1:00	828.3
7/18/2020 1:00	7/18/2020 2:00	766.2
7/18/2020 2:00	7/18/2020 3:00	743.4
7/18/2020 3:00	7/18/2020 4:00	778.7
7/18/2020 4:00	7/18/2020 5:00	791.2
7/18/2020 5:00	7/18/2020 6:00	829.7
7/18/2020 6:00	7/18/2020 7:00	863.8
7/18/2020 7:00	7/18/2020 8:00	905.5
7/18/2020 8:00	7/18/2020 9:00	961.6
7/18/2020 9:00	7/18/2020 10:00	973.8
7/18/2020 10:00	7/18/2020 11:00	995.4
7/18/2020 11:00	7/18/2020 12:00	1023.4
7/18/2020 12:00	7/18/2020 13:00	1029.0
7/18/2020 13:00	7/18/2020 14:00	1014.5
7/18/2020 14:00	7/18/2020 15:00	1035.4
7/18/2020 15:00	7/18/2020 16:00	994.7
7/18/2020 16:00	7/18/2020 17:00	1009.9
7/18/2020 17:00	7/18/2020 18:00	1033.8
7/18/2020 18:00	7/18/2020 19:00	1021.6
7/18/2020 19:00	7/18/2020 20:00	998.4
7/18/2020 20:00	7/18/2020 21:00	986.1
7/18/2020 21:00	7/18/2020 22:00	988.7
7/18/2020 22:00	7/18/2020 23:00	942.4
7/18/2020 23:00	7/19/2020 0:00	883.1
7/19/2020 0:00	7/19/2020 1:00	852.1
7/19/2020 1:00	7/19/2020 2:00	808.9
7/19/2020 2:00	7/19/2020 3:00	787.0
7/19/2020 3:00	7/19/2020 4:00	777.3
7/19/2020 4:00	7/19/2020 5:00	766.7
7/19/2020 5:00	7/19/2020 6:00	756.2
7/19/2020 6:00	7/19/2020 7:00	763.9
7/19/2020 7:00	7/19/2020 8:00	790.8
7/19/2020 8:00	7/19/2020 9:00	870.5
7/19/2020 9:00	7/19/2020 10:00	978.1
7/19/2020 10:00	7/19/2020 11:00	1035.6
7/19/2020 11:00	7/19/2020 12:00	1066.3
7/19/2020 12:00	7/19/2020 13:00	1075.0
7/19/2020 13:00	7/19/2020 14:00	1056.7
7/19/2020 14:00	7/19/2020 15:00	1031.8
7/19/2020 15:00	7/19/2020 16:00	1020.9
7/19/2020 16:00	7/19/2020 17:00	1036.6
7/19/2020 17:00	7/19/2020 18:00	1038.5
7/19/2020 18:00	7/19/2020 19:00	1013.7
7/19/2020 19:00	7/19/2020 20:00	970.3
7/19/2020 20:00	7/19/2020 21:00	912.5

Start Time	End Time	ANL_MW
7/19/2020 21:00	7/19/2020 22:00	873.2
7/19/2020 22:00	7/19/2020 23:00	796.2
7/19/2020 23:00	7/20/2020 0:00	702.7
7/20/2020 0:00	7/20/2020 1:00	693.4
7/20/2020 1:00	7/20/2020 2:00	616.1
7/20/2020 2:00	7/20/2020 3:00	572.7
7/20/2020 3:00	7/20/2020 4:00	541.1
7/20/2020 4:00	7/20/2020 5:00	518.6
7/20/2020 5:00	7/20/2020 6:00	517.8
7/20/2020 6:00	7/20/2020 7:00	582.9
7/20/2020 7:00	7/20/2020 8:00	683.2
7/20/2020 8:00	7/20/2020 9:00	785.1
7/20/2020 9:00	7/20/2020 10:00	877.3
7/20/2020 10:00	7/20/2020 11:00	854.8
7/20/2020 11:00	7/20/2020 12:00	844.4
7/20/2020 12:00	7/20/2020 13:00	822.3
7/20/2020 13:00	7/20/2020 14:00	802.9
7/20/2020 14:00	7/20/2020 15:00	811.7
7/20/2020 15:00	7/20/2020 16:00	844.5
7/20/2020 16:00	7/20/2020 17:00	875.6
7/20/2020 17:00	7/20/2020 18:00	911.4
7/20/2020 18:00	7/20/2020 19:00	884.1
7/20/2020 19:00	7/20/2020 20:00	850.0
7/20/2020 20:00	7/20/2020 21:00	850.3
7/20/2020 21:00	7/20/2020 22:00	854.5
7/20/2020 22:00	7/20/2020 23:00	793.2
7/20/2020 23:00	7/21/2020 0:00	796.3
7/21/2020 0:00	7/21/2020 1:00	780.0
7/21/2020 1:00	7/21/2020 2:00	755.8
7/21/2020 2:00	7/21/2020 3:00	770.3
7/21/2020 3:00	7/21/2020 4:00	783.0
7/21/2020 4:00	7/21/2020 5:00	803.5
7/21/2020 5:00	7/21/2020 6:00	835.4
7/21/2020 6:00	7/21/2020 7:00	836.5
7/21/2020 7:00	7/21/2020 8:00	950.2
7/21/2020 8:00	7/21/2020 9:00	1033.1
7/21/2020 9:00	7/21/2020 10:00	1126.7
7/21/2020 10:00	7/21/2020 11:00	1163.2
7/21/2020 11:00	7/21/2020 12:00	1192.4
7/21/2020 12:00	7/21/2020 13:00	1195.1
7/21/2020 13:00	7/21/2020 14:00	1186.6
7/21/2020 14:00	7/21/2020 15:00	1147.3
7/21/2020 15:00	7/21/2020 16:00	1118.4
7/21/2020 16:00	7/21/2020 17:00	1154.0
7/21/2020 17:00	7/21/2020 18:00	1178.3
7/21/2020 18:00	7/21/2020 19:00	1154.3
7/21/2020 19:00	7/21/2020 20:00	1145.9
7/21/2020 20:00	7/21/2020 21:00	1099.6
7/21/2020 21:00	7/21/2020 22:00	1059.5
7/21/2020 22:00	7/21/2020 23:00	947.0
7/21/2020 23:00	7/22/2020 0:00	854.8
7/22/2020 0:00	7/22/2020 1:00	849.5
7/22/2020 1:00	7/22/2020 2:00	821.5
7/22/2020 2:00	7/22/2020 3:00	804.8
7/22/2020 3:00	7/22/2020 4:00	777.8
7/22/2020 4:00	7/22/2020 5:00	766.5
7/22/2020 5:00	7/22/2020 6:00	815.5
7/22/2020 6:00	7/22/2020 7:00	901.4
7/22/2020 7:00	7/22/2020 8:00	1032.2
7/22/2020 8:00	7/22/2020 9:00	1136.5
7/22/2020 9:00	7/22/2020 10:00	1176.0
7/22/2020 10:00	7/22/2020 11:00	1201.9
7/22/2020 11:00	7/22/2020 12:00	1229.0
7/22/2020 12:00	7/22/2020 13:00	1194.7
7/22/2020 13:00	7/22/2020 14:00	1179.4
7/22/2020 14:00	7/22/2020 15:00	1171.1
7/22/2020 15:00	7/22/2020 16:00	1177.2
7/22/2020 16:00	7/22/2020 17:00	1189.8
7/22/2020 17:00	7/22/2020 18:00	1220.0
7/22/2020 18:00	7/22/2020 19:00	1188.6

Start Time	End Time	ANL_MW
7/22/2020 19:00	7/22/2020 20:00	1138.6
7/22/2020 20:00	7/22/2020 21:00	1102.0
7/22/2020 21:00	7/22/2020 22:00	1080.7
7/22/2020 22:00	7/22/2020 23:00	992.1
7/22/2020 23:00	7/23/2020 0:00	955.5
7/23/2020 0:00	7/23/2020 1:00	889.8
7/23/2020 1:00	7/23/2020 2:00	858.3
7/23/2020 2:00	7/23/2020 3:00	842.4
7/23/2020 3:00	7/23/2020 4:00	796.0
7/23/2020 4:00	7/23/2020 5:00	751.2
7/23/2020 5:00	7/23/2020 6:00	790.1
7/23/2020 6:00	7/23/2020 7:00	862.8
7/23/2020 7:00	7/23/2020 8:00	971.7
7/23/2020 8:00	7/23/2020 9:00	1095.9
7/23/2020 9:00	7/23/2020 10:00	1143.0
7/23/2020 10:00	7/23/2020 11:00	1185.3
7/23/2020 11:00	7/23/2020 12:00	1227.5
7/23/2020 12:00	7/23/2020 13:00	1230.0
7/23/2020 13:00	7/23/2020 14:00	1240.9
7/23/2020 14:00	7/23/2020 15:00	1242.5
7/23/2020 15:00	7/23/2020 16:00	1248.0
7/23/2020 16:00	7/23/2020 17:00	1272.9
7/23/2020 17:00	7/23/2020 18:00	1292.8
7/23/2020 18:00	7/23/2020 19:00	1238.2
7/23/2020 19:00	7/23/2020 20:00	1203.5
7/23/2020 20:00	7/23/2020 21:00	1191.2
7/23/2020 21:00	7/23/2020 22:00	1183.6
7/23/2020 22:00	7/23/2020 23:00	1112.5
7/23/2020 23:00	7/24/2020 0:00	1041.6
7/24/2020 0:00	7/24/2020 1:00	1023.4
7/24/2020 1:00	7/24/2020 2:00	981.6
7/24/2020 2:00	7/24/2020 3:00	953.8
7/24/2020 3:00	7/24/2020 4:00	925.4
7/24/2020 4:00	7/24/2020 5:00	917.6
7/24/2020 5:00	7/24/2020 6:00	939.5
7/24/2020 6:00	7/24/2020 7:00	1008.9
7/24/2020 7:00	7/24/2020 8:00	1056.5
7/24/2020 8:00	7/24/2020 9:00	1140.4
7/24/2020 9:00	7/24/2020 10:00	1178.0
7/24/2020 10:00	7/24/2020 11:00	1200.6
7/24/2020 11:00	7/24/2020 12:00	1249.8
7/24/2020 12:00	7/24/2020 13:00	1296.6
7/24/2020 13:00	7/24/2020 14:00	1287.6
7/24/2020 14:00	7/24/2020 15:00	1197.3
7/24/2020 15:00	7/24/2020 16:00	1190.7
7/24/2020 16:00	7/24/2020 17:00	1219.9
7/24/2020 17:00	7/24/2020 18:00	1221.6
7/24/2020 18:00	7/24/2020 19:00	1235.3
7/24/2020 19:00	7/24/2020 20:00	1207.2
7/24/2020 20:00	7/24/2020 21:00	1163.1
7/24/2020 21:00	7/24/2020 22:00	1154.5
7/24/2020 22:00	7/24/2020 23:00	1080.6
7/24/2020 23:00	7/25/2020 0:00	1034.7
7/25/2020 0:00	7/25/2020 1:00	940.3
7/25/2020 1:00	7/25/2020 2:00	882.5
7/25/2020 2:00	7/25/2020 3:00	834.5
7/25/2020 3:00	7/25/2020 4:00	805.1
7/25/2020 4:00	7/25/2020 5:00	789.0
7/25/2020 5:00	7/25/2020 6:00	774.8
7/25/2020 6:00	7/25/2020 7:00	794.2
7/25/2020 7:00	7/25/2020 8:00	887.9
7/25/2020 8:00	7/25/2020 9:00	1044.5
7/25/2020 9:00	7/25/2020 10:00	1101.7
7/25/2020 10:00	7/25/2020 11:00	1174.0
7/25/2020 11:00	7/25/2020 12:00	1208.1
7/25/2020 12:00	7/25/2020 13:00	1165.8
7/25/2020 13:00	7/25/2020 14:00	1126.1
7/25/2020 14:00	7/25/2020 15:00	1069.0
7/25/2020 15:00	7/25/2020 16:00	1062.1
7/25/2020 16:00	7/25/2020 17:00	1109.7

Start Time	End Time	ANL_MW
7/25/2020 17:00	7/25/2020 18:00	1121.4
7/25/2020 18:00	7/25/2020 19:00	1100.8
7/25/2020 19:00	7/25/2020 20:00	1036.9
7/25/2020 20:00	7/25/2020 21:00	950.6
7/25/2020 21:00	7/25/2020 22:00	928.0
7/25/2020 22:00	7/25/2020 23:00	903.7
7/25/2020 23:00	7/26/2020 0:00	804.3
7/26/2020 0:00	7/26/2020 1:00	731.3
7/26/2020 1:00	7/26/2020 2:00	658.6
7/26/2020 2:00	7/26/2020 3:00	618.7
7/26/2020 3:00	7/26/2020 4:00	620.0
7/26/2020 4:00	7/26/2020 5:00	639.0
7/26/2020 5:00	7/26/2020 6:00	666.2
7/26/2020 6:00	7/26/2020 7:00	723.8
7/26/2020 7:00	7/26/2020 8:00	789.3
7/26/2020 8:00	7/26/2020 9:00	859.9
7/26/2020 9:00	7/26/2020 10:00	944.8
7/26/2020 10:00	7/26/2020 11:00	1014.3
7/26/2020 11:00	7/26/2020 12:00	1082.5
7/26/2020 12:00	7/26/2020 13:00	1114.4
7/26/2020 13:00	7/26/2020 14:00	1079.5
7/26/2020 14:00	7/26/2020 15:00	1043.0
7/26/2020 15:00	7/26/2020 16:00	963.1
7/26/2020 16:00	7/26/2020 17:00	987.5
7/26/2020 17:00	7/26/2020 18:00	987.8
7/26/2020 18:00	7/26/2020 19:00	1015.8
7/26/2020 19:00	7/26/2020 20:00	1020.9
7/26/2020 20:00	7/26/2020 21:00	1047.1
7/26/2020 21:00	7/26/2020 22:00	1062.1
7/26/2020 22:00	7/26/2020 23:00	979.7
7/26/2020 23:00	7/27/2020 0:00	968.7
7/27/2020 0:00	7/27/2020 1:00	935.9
7/27/2020 1:00	7/27/2020 2:00	909.2
7/27/2020 2:00	7/27/2020 3:00	910.6
7/27/2020 3:00	7/27/2020 4:00	914.2
7/27/2020 4:00	7/27/2020 5:00	920.7
7/27/2020 5:00	7/27/2020 6:00	958.0
7/27/2020 6:00	7/27/2020 7:00	1024.5
7/27/2020 7:00	7/27/2020 8:00	1124.6
7/27/2020 8:00	7/27/2020 9:00	1150.6
7/27/2020 9:00	7/27/2020 10:00	1215.9
7/27/2020 10:00	7/27/2020 11:00	1241.9
7/27/2020 11:00	7/27/2020 12:00	1273.8
7/27/2020 12:00	7/27/2020 13:00	1291.3
7/27/2020 13:00	7/27/2020 14:00	1286.3
7/27/2020 14:00	7/27/2020 15:00	1233.5
7/27/2020 15:00	7/27/2020 16:00	1242.2
7/27/2020 16:00	7/27/2020 17:00	1262.4
7/27/2020 17:00	7/27/2020 18:00	1270.5
7/27/2020 18:00	7/27/2020 19:00	1222.3
7/27/2020 19:00	7/27/2020 20:00	1204.3
7/27/2020 20:00	7/27/2020 21:00	1171.4
7/27/2020 21:00	7/27/2020 22:00	1155.4
7/27/2020 22:00	7/27/2020 23:00	1061.2
7/27/2020 23:00	7/28/2020 0:00	1026.2
7/28/2020 0:00	7/28/2020 1:00	931.0
7/28/2020 1:00	7/28/2020 2:00	875.7
7/28/2020 2:00	7/28/2020 3:00	837.9
7/28/2020 3:00	7/28/2020 4:00	800.7
7/28/2020 4:00	7/28/2020 5:00	802.9
7/28/2020 5:00	7/28/2020 6:00	803.3
7/28/2020 6:00	7/28/2020 7:00	859.5
7/28/2020 7:00	7/28/2020 8:00	973.0
7/28/2020 8:00	7/28/2020 9:00	1116.7
7/28/2020 9:00	7/28/2020 10:00	1143.8
7/28/2020 10:00	7/28/2020 11:00	1219.2
7/28/2020 11:00	7/28/2020 12:00	1275.2
7/28/2020 12:00	7/28/2020 13:00	1292.4
7/28/2020 13:00	7/28/2020 14:00	1292.3
7/28/2020 14:00	7/28/2020 15:00	1217.1

Start Time	End Time	ANL_MW
7/28/2020 15:00	7/28/2020 16:00	1191.3
7/28/2020 16:00	7/28/2020 17:00	1206.2
7/28/2020 17:00	7/28/2020 18:00	1273.7
7/28/2020 18:00	7/28/2020 19:00	1222.9
7/28/2020 19:00	7/28/2020 20:00	1206.6
7/28/2020 20:00	7/28/2020 21:00	1183.2
7/28/2020 21:00	7/28/2020 22:00	1190.5
7/28/2020 22:00	7/28/2020 23:00	1111.7
7/28/2020 23:00	7/29/2020 0:00	1090.7
7/29/2020 0:00	7/29/2020 1:00	1022.9
7/29/2020 1:00	7/29/2020 2:00	978.9
7/29/2020 2:00	7/29/2020 3:00	950.2
7/29/2020 3:00	7/29/2020 4:00	929.2
7/29/2020 4:00	7/29/2020 5:00	935.4
7/29/2020 5:00	7/29/2020 6:00	965.3
7/29/2020 6:00	7/29/2020 7:00	1031.3
7/29/2020 7:00	7/29/2020 8:00	1091.3
7/29/2020 8:00	7/29/2020 9:00	1202.2
7/29/2020 9:00	7/29/2020 10:00	1281.5
7/29/2020 10:00	7/29/2020 11:00	1330.7
7/29/2020 11:00	7/29/2020 12:00	1321.0
7/29/2020 12:00	7/29/2020 13:00	1289.4
7/29/2020 13:00	7/29/2020 14:00	1288.8
7/29/2020 14:00	7/29/2020 15:00	1284.5
7/29/2020 15:00	7/29/2020 16:00	1276.4
7/29/2020 16:00	7/29/2020 17:00	1289.9
7/29/2020 17:00	7/29/2020 18:00	1293.5
7/29/2020 18:00	7/29/2020 19:00	1238.8
7/29/2020 19:00	7/29/2020 20:00	1199.8
7/29/2020 20:00	7/29/2020 21:00	1162.4
7/29/2020 21:00	7/29/2020 22:00	1146.1
7/29/2020 22:00	7/29/2020 23:00	1098.8
7/29/2020 23:00	7/30/2020 0:00	1010.5
7/30/2020 0:00	7/30/2020 1:00	957.5
7/30/2020 1:00	7/30/2020 2:00	962.3
7/30/2020 2:00	7/30/2020 3:00	907.0
7/30/2020 3:00	7/30/2020 4:00	881.3
7/30/2020 4:00	7/30/2020 5:00	869.2
7/30/2020 5:00	7/30/2020 6:00	865.0
7/30/2020 6:00	7/30/2020 7:00	930.5
7/30/2020 7:00	7/30/2020 8:00	1069.3
7/30/2020 8:00	7/30/2020 9:00	1145.6
7/30/2020 9:00	7/30/2020 10:00	1215.4
7/30/2020 10:00	7/30/2020 11:00	1264.4
7/30/2020 11:00	7/30/2020 12:00	1284.0
7/30/2020 12:00	7/30/2020 13:00	1258.7
7/30/2020 13:00	7/30/2020 14:00	1245.5
7/30/2020 14:00	7/30/2020 15:00	1214.4
7/30/2020 15:00	7/30/2020 16:00	1194.3
7/30/2020 16:00	7/30/2020 17:00	1218.8
7/30/2020 17:00	7/30/2020 18:00	1199.9
7/30/2020 18:00	7/30/2020 19:00	1167.1
7/30/2020 19:00	7/30/2020 20:00	1136.5
7/30/2020 20:00	7/30/2020 21:00	1138.3
7/30/2020 21:00	7/30/2020 22:00	1108.5
7/30/2020 22:00	7/30/2020 23:00	1032.6
7/30/2020 23:00	7/31/2020 0:00	960.0
7/31/2020 0:00	7/31/2020 1:00	929.7
7/31/2020 1:00	7/31/2020 2:00	927.7
7/31/2020 2:00	7/31/2020 3:00	900.8
7/31/2020 3:00	7/31/2020 4:00	887.3
7/31/2020 4:00	7/31/2020 5:00	885.0
7/31/2020 5:00	7/31/2020 6:00	901.1
7/31/2020 6:00	7/31/2020 7:00	888.3
7/31/2020 7:00	7/31/2020 8:00	1014.9
7/31/2020 8:00	7/31/2020 9:00	1037.3
7/31/2020 9:00	7/31/2020 10:00	1078.6
7/31/2020 10:00	7/31/2020 11:00	1125.4
7/31/2020 11:00	7/31/2020 12:00	1180.4
7/31/2020 12:00	7/31/2020 13:00	1207.9

Start Time	End Time	ANL_MW
7/31/2020 13:00	7/31/2020 14:00	1211.0
7/31/2020 14:00	7/31/2020 15:00	1180.5
7/31/2020 15:00	7/31/2020 16:00	1177.7
7/31/2020 16:00	7/31/2020 17:00	1197.4
7/31/2020 17:00	7/31/2020 18:00	1198.3
7/31/2020 18:00	7/31/2020 19:00	1160.7
7/31/2020 19:00	7/31/2020 20:00	1128.1
7/31/2020 20:00	7/31/2020 21:00	1089.5
7/31/2020 21:00	7/31/2020 22:00	1115.2
7/31/2020 22:00	7/31/2020 23:00	1092.1
7/31/2020 23:00	8/1/2020 0:00	998.5
8/1/2020 0:00	8/1/2020 1:00	908.7
8/1/2020 1:00	8/1/2020 2:00	857.7
8/1/2020 2:00	8/1/2020 3:00	824.5
8/1/2020 3:00	8/1/2020 4:00	797.7
8/1/2020 4:00	8/1/2020 5:00	783.3
8/1/2020 5:00	8/1/2020 6:00	789.9
8/1/2020 6:00	8/1/2020 7:00	796.5
8/1/2020 7:00	8/1/2020 8:00	876.3
8/1/2020 8:00	8/1/2020 9:00	1011.1
8/1/2020 9:00	8/1/2020 10:00	1100.1
8/1/2020 10:00	8/1/2020 11:00	1139.3
8/1/2020 11:00	8/1/2020 12:00	1157.6
8/1/2020 12:00	8/1/2020 13:00	1142.4
8/1/2020 13:00	8/1/2020 14:00	1100.8
8/1/2020 14:00	8/1/2020 15:00	1037.3
8/1/2020 15:00	8/1/2020 16:00	1013.7
8/1/2020 16:00	8/1/2020 17:00	1013.6
8/1/2020 17:00	8/1/2020 18:00	1031.0
8/1/2020 18:00	8/1/2020 19:00	1018.5
8/1/2020 19:00	8/1/2020 20:00	1002.6
8/1/2020 20:00	8/1/2020 21:00	980.3
8/1/2020 21:00	8/1/2020 22:00	976.1
8/1/2020 22:00	8/1/2020 23:00	931.1
8/1/2020 23:00	8/2/2020 0:00	896.8
8/2/2020 0:00	8/2/2020 1:00	883.0
8/2/2020 1:00	8/2/2020 2:00	848.0
8/2/2020 2:00	8/2/2020 3:00	819.2
8/2/2020 3:00	8/2/2020 4:00	797.0
8/2/2020 4:00	8/2/2020 5:00	763.6
8/2/2020 5:00	8/2/2020 6:00	749.8
8/2/2020 6:00	8/2/2020 7:00	774.1
8/2/2020 7:00	8/2/2020 8:00	864.9
8/2/2020 8:00	8/2/2020 9:00	1000.4
8/2/2020 9:00	8/2/2020 10:00	1065.4
8/2/2020 10:00	8/2/2020 11:00	1046.3
8/2/2020 11:00	8/2/2020 12:00	1088.2
8/2/2020 12:00	8/2/2020 13:00	1100.2
8/2/2020 13:00	8/2/2020 14:00	1080.7
8/2/2020 14:00	8/2/2020 15:00	1053.3
8/2/2020 15:00	8/2/2020 16:00	1041.5
8/2/2020 16:00	8/2/2020 17:00	1050.8
8/2/2020 17:00	8/2/2020 18:00	1041.4
8/2/2020 18:00	8/2/2020 19:00	1013.9
8/2/2020 19:00	8/2/2020 20:00	979.3
8/2/2020 20:00	8/2/2020 21:00	906.5
8/2/2020 21:00	8/2/2020 22:00	843.0
8/2/2020 22:00	8/2/2020 23:00	802.7
8/2/2020 23:00	8/3/2020 0:00	760.7
8/3/2020 0:00	8/3/2020 1:00	770.2
8/3/2020 1:00	8/3/2020 2:00	749.6
8/3/2020 2:00	8/3/2020 3:00	727.5
8/3/2020 3:00	8/3/2020 4:00	679.8
8/3/2020 4:00	8/3/2020 5:00	712.2
8/3/2020 5:00	8/3/2020 6:00	721.1
8/3/2020 6:00	8/3/2020 7:00	727.5
8/3/2020 7:00	8/3/2020 8:00	734.4
8/3/2020 8:00	8/3/2020 9:00	823.6
8/3/2020 9:00	8/3/2020 10:00	855.7
8/3/2020 10:00	8/3/2020 11:00	867.6

Start Time	End Time	ANL_MW
8/3/2020 11:00	8/3/2020 12:00	877.8
8/3/2020 12:00	8/3/2020 13:00	883.6
8/3/2020 13:00	8/3/2020 14:00	889.7
8/3/2020 14:00	8/3/2020 15:00	832.1
8/3/2020 15:00	8/3/2020 16:00	837.7
8/3/2020 16:00	8/3/2020 17:00	848.1
8/3/2020 17:00	8/3/2020 18:00	889.1
8/3/2020 18:00	8/3/2020 19:00	866.9
8/3/2020 19:00	8/3/2020 20:00	884.6
8/3/2020 20:00	8/3/2020 21:00	946.7
8/3/2020 21:00	8/3/2020 22:00	909.5
8/3/2020 22:00	8/3/2020 23:00	833.9
8/3/2020 23:00	8/4/2020 0:00	738.1
8/4/2020 0:00	8/4/2020 1:00	675.5
8/4/2020 1:00	8/4/2020 2:00	635.7
8/4/2020 2:00	8/4/2020 3:00	599.2
8/4/2020 3:00	8/4/2020 4:00	594.1
8/4/2020 4:00	8/4/2020 5:00	608.7
8/4/2020 5:00	8/4/2020 6:00	660.9
8/4/2020 6:00	8/4/2020 7:00	738.0
8/4/2020 7:00	8/4/2020 8:00	864.3
8/4/2020 8:00	8/4/2020 9:00	937.0
8/4/2020 9:00	8/4/2020 10:00	950.4
8/4/2020 10:00	8/4/2020 11:00	957.6
8/4/2020 11:00	8/4/2020 12:00	999.5
8/4/2020 12:00	8/4/2020 13:00	1038.8
8/4/2020 13:00	8/4/2020 14:00	1062.8
8/4/2020 14:00	8/4/2020 15:00	1085.9
8/4/2020 15:00	8/4/2020 16:00	1114.3
8/4/2020 16:00	8/4/2020 17:00	1169.1
8/4/2020 17:00	8/4/2020 18:00	1184.0
8/4/2020 18:00	8/4/2020 19:00	1166.1
8/4/2020 19:00	8/4/2020 20:00	1175.4
8/4/2020 20:00	8/4/2020 21:00	1183.0
8/4/2020 21:00	8/4/2020 22:00	1164.1
8/4/2020 22:00	8/4/2020 23:00	1078.5
8/4/2020 23:00	8/5/2020 0:00	975.1
8/5/2020 0:00	8/5/2020 1:00	839.2
8/5/2020 1:00	8/5/2020 2:00	759.9
8/5/2020 2:00	8/5/2020 3:00	709.4
8/5/2020 3:00	8/5/2020 4:00	756.7
8/5/2020 4:00	8/5/2020 5:00	719.9
8/5/2020 5:00	8/5/2020 6:00	731.7
8/5/2020 6:00	8/5/2020 7:00	763.1
8/5/2020 7:00	8/5/2020 8:00	880.9
8/5/2020 8:00	8/5/2020 9:00	883.0
8/5/2020 9:00	8/5/2020 10:00	949.6
8/5/2020 10:00	8/5/2020 11:00	980.5
8/5/2020 11:00	8/5/2020 12:00	991.2
8/5/2020 12:00	8/5/2020 13:00	1031.2
8/5/2020 13:00	8/5/2020 14:00	1052.9
8/5/2020 14:00	8/5/2020 15:00	1075.5
8/5/2020 15:00	8/5/2020 16:00	1097.2
8/5/2020 16:00	8/5/2020 17:00	1142.5
8/5/2020 17:00	8/5/2020 18:00	1155.3
8/5/2020 18:00	8/5/2020 19:00	1126.0
8/5/2020 19:00	8/5/2020 20:00	1070.6
8/5/2020 20:00	8/5/2020 21:00	1002.3
8/5/2020 21:00	8/5/2020 22:00	986.0
8/5/2020 22:00	8/5/2020 23:00	882.7
8/5/2020 23:00	8/6/2020 0:00	771.8
8/6/2020 0:00	8/6/2020 1:00	687.9
8/6/2020 1:00	8/6/2020 2:00	649.4
8/6/2020 2:00	8/6/2020 3:00	746.3
8/6/2020 3:00	8/6/2020 4:00	785.5
8/6/2020 4:00	8/6/2020 5:00	822.4
8/6/2020 5:00	8/6/2020 6:00	886.0
8/6/2020 6:00	8/6/2020 7:00	977.1
8/6/2020 7:00	8/6/2020 8:00	1043.7
8/6/2020 8:00	8/6/2020 9:00	1118.1

Start Time	End Time	ANL_MW
8/6/2020 9:00	8/6/2020 10:00	1178.0
8/6/2020 10:00	8/6/2020 11:00	1210.1
8/6/2020 11:00	8/6/2020 12:00	1183.0
8/6/2020 12:00	8/6/2020 13:00	1164.6
8/6/2020 13:00	8/6/2020 14:00	1105.0
8/6/2020 14:00	8/6/2020 15:00	1006.9
8/6/2020 15:00	8/6/2020 16:00	971.1
8/6/2020 16:00	8/6/2020 17:00	986.0
8/6/2020 17:00	8/6/2020 18:00	968.2
8/6/2020 18:00	8/6/2020 19:00	926.1
8/6/2020 19:00	8/6/2020 20:00	913.4
8/6/2020 20:00	8/6/2020 21:00	855.8
8/6/2020 21:00	8/6/2020 22:00	829.7
8/6/2020 22:00	8/6/2020 23:00	746.6
8/6/2020 23:00	8/7/2020 0:00	757.3
8/7/2020 0:00	8/7/2020 1:00	728.6
8/7/2020 1:00	8/7/2020 2:00	677.0
8/7/2020 2:00	8/7/2020 3:00	628.3
8/7/2020 3:00	8/7/2020 4:00	600.3
8/7/2020 4:00	8/7/2020 5:00	601.9
8/7/2020 5:00	8/7/2020 6:00	645.3
8/7/2020 6:00	8/7/2020 7:00	737.3
8/7/2020 7:00	8/7/2020 8:00	904.6
8/7/2020 8:00	8/7/2020 9:00	1030.5
8/7/2020 9:00	8/7/2020 10:00	1134.1
8/7/2020 10:00	8/7/2020 11:00	1159.1
8/7/2020 11:00	8/7/2020 12:00	1163.2
8/7/2020 12:00	8/7/2020 13:00	1157.6
8/7/2020 13:00	8/7/2020 14:00	1150.8
8/7/2020 14:00	8/7/2020 15:00	1120.4
8/7/2020 15:00	8/7/2020 16:00	1120.5
8/7/2020 16:00	8/7/2020 17:00	1143.2
8/7/2020 17:00	8/7/2020 18:00	1163.1
8/7/2020 18:00	8/7/2020 19:00	1140.6
8/7/2020 19:00	8/7/2020 20:00	1107.7
8/7/2020 20:00	8/7/2020 21:00	1077.7
8/7/2020 21:00	8/7/2020 22:00	1053.0
8/7/2020 22:00	8/7/2020 23:00	1020.9
8/7/2020 23:00	8/8/2020 0:00	961.8
8/8/2020 0:00	8/8/2020 1:00	877.7
8/8/2020 1:00	8/8/2020 2:00	816.9
8/8/2020 2:00	8/8/2020 3:00	794.9
8/8/2020 3:00	8/8/2020 4:00	793.4
8/8/2020 4:00	8/8/2020 5:00	815.8
8/8/2020 5:00	8/8/2020 6:00	848.2
8/8/2020 6:00	8/8/2020 7:00	892.9
8/8/2020 7:00	8/8/2020 8:00	911.1
8/8/2020 8:00	8/8/2020 9:00	1000.3
8/8/2020 9:00	8/8/2020 10:00	1070.7
8/8/2020 10:00	8/8/2020 11:00	1121.0
8/8/2020 11:00	8/8/2020 12:00	1152.7
8/8/2020 12:00	8/8/2020 13:00	1166.7
8/8/2020 13:00	8/8/2020 14:00	1150.1
8/8/2020 14:00	8/8/2020 15:00	1122.0
8/8/2020 15:00	8/8/2020 16:00	1121.8
8/8/2020 16:00	8/8/2020 17:00	1144.2
8/8/2020 17:00	8/8/2020 18:00	1159.1
8/8/2020 18:00	8/8/2020 19:00	1131.0
8/8/2020 19:00	8/8/2020 20:00	1085.7
8/8/2020 20:00	8/8/2020 21:00	1048.7
8/8/2020 21:00	8/8/2020 22:00	1024.9
8/8/2020 22:00	8/8/2020 23:00	950.9
8/8/2020 23:00	8/9/2020 0:00	860.9
8/9/2020 0:00	8/9/2020 1:00	818.4
8/9/2020 1:00	8/9/2020 2:00	729.3
8/9/2020 2:00	8/9/2020 3:00	692.1
8/9/2020 3:00	8/9/2020 4:00	685.3
8/9/2020 4:00	8/9/2020 5:00	677.9
8/9/2020 5:00	8/9/2020 6:00	683.7
8/9/2020 6:00	8/9/2020 7:00	704.8

Start Time	End Time	ANL_MW
8/9/2020 7:00	8/9/2020 8:00	790.8
8/9/2020 8:00	8/9/2020 9:00	954.1
8/9/2020 9:00	8/9/2020 10:00	1046.2
8/9/2020 10:00	8/9/2020 11:00	1115.2
8/9/2020 11:00	8/9/2020 12:00	1141.9
8/9/2020 12:00	8/9/2020 13:00	1142.7
8/9/2020 13:00	8/9/2020 14:00	1113.1
8/9/2020 14:00	8/9/2020 15:00	1079.9
8/9/2020 15:00	8/9/2020 16:00	1058.6
8/9/2020 16:00	8/9/2020 17:00	1061.3
8/9/2020 17:00	8/9/2020 18:00	1048.6
8/9/2020 18:00	8/9/2020 19:00	1052.0
8/9/2020 19:00	8/9/2020 20:00	1063.0
8/9/2020 20:00	8/9/2020 21:00	1030.0
8/9/2020 21:00	8/9/2020 22:00	972.7
8/9/2020 22:00	8/9/2020 23:00	843.9
8/9/2020 23:00	8/10/2020 0:00	786.6
8/10/2020 0:00	8/10/2020 1:00	745.9
8/10/2020 1:00	8/10/2020 2:00	701.1
8/10/2020 2:00	8/10/2020 3:00	698.7
8/10/2020 3:00	8/10/2020 4:00	724.5
8/10/2020 4:00	8/10/2020 5:00	765.9
8/10/2020 5:00	8/10/2020 6:00	734.4
8/10/2020 6:00	8/10/2020 7:00	810.0
8/10/2020 7:00	8/10/2020 8:00	963.6
8/10/2020 8:00	8/10/2020 9:00	1098.2
8/10/2020 9:00	8/10/2020 10:00	1178.5
8/10/2020 10:00	8/10/2020 11:00	1223.7
8/10/2020 11:00	8/10/2020 12:00	1198.5
8/10/2020 12:00	8/10/2020 13:00	1206.9
8/10/2020 13:00	8/10/2020 14:00	1201.3
8/10/2020 14:00	8/10/2020 15:00	1181.3
8/10/2020 15:00	8/10/2020 16:00	1162.3
8/10/2020 16:00	8/10/2020 17:00	1183.9
8/10/2020 17:00	8/10/2020 18:00	1183.4
8/10/2020 18:00	8/10/2020 19:00	1124.8
8/10/2020 19:00	8/10/2020 20:00	1069.7
8/10/2020 20:00	8/10/2020 21:00	1047.6
8/10/2020 21:00	8/10/2020 22:00	1020.7
8/10/2020 22:00	8/10/2020 23:00	920.6
8/10/2020 23:00	8/11/2020 0:00	840.3
8/11/2020 0:00	8/11/2020 1:00	831.1
8/11/2020 1:00	8/11/2020 2:00	757.3
8/11/2020 2:00	8/11/2020 3:00	684.4
8/11/2020 3:00	8/11/2020 4:00	668.4
8/11/2020 4:00	8/11/2020 5:00	685.5
8/11/2020 5:00	8/11/2020 6:00	711.1
8/11/2020 6:00	8/11/2020 7:00	744.5
8/11/2020 7:00	8/11/2020 8:00	850.0
8/11/2020 8:00	8/11/2020 9:00	931.6
8/11/2020 9:00	8/11/2020 10:00	1001.8
8/11/2020 10:00	8/11/2020 11:00	1030.7
8/11/2020 11:00	8/11/2020 12:00	1041.5
8/11/2020 12:00	8/11/2020 13:00	1029.1
8/11/2020 13:00	8/11/2020 14:00	996.1
8/11/2020 14:00	8/11/2020 15:00	956.6
8/11/2020 15:00	8/11/2020 16:00	947.8
8/11/2020 16:00	8/11/2020 17:00	968.9
8/11/2020 17:00	8/11/2020 18:00	991.2
8/11/2020 18:00	8/11/2020 19:00	955.5
8/11/2020 19:00	8/11/2020 20:00	903.1
8/11/2020 20:00	8/11/2020 21:00	840.9
8/11/2020 21:00	8/11/2020 22:00	802.3
8/11/2020 22:00	8/11/2020 23:00	709.9
8/11/2020 23:00	8/12/2020 0:00	665.3
8/12/2020 0:00	8/12/2020 1:00	612.1
8/12/2020 1:00	8/12/2020 2:00	626.9
8/12/2020 2:00	8/12/2020 3:00	619.0
8/12/2020 3:00	8/12/2020 4:00	626.4
8/12/2020 4:00	8/12/2020 5:00	643.2

Start Time	End Time	ANL_MW
8/12/2020 5:00	8/12/2020 6:00	693.6
8/12/2020 6:00	8/12/2020 7:00	756.9
8/12/2020 7:00	8/12/2020 8:00	750.5
8/12/2020 8:00	8/12/2020 9:00	833.6
8/12/2020 9:00	8/12/2020 10:00	871.6
8/12/2020 10:00	8/12/2020 11:00	915.8
8/12/2020 11:00	8/12/2020 12:00	934.7
8/12/2020 12:00	8/12/2020 13:00	953.1
8/12/2020 13:00	8/12/2020 14:00	958.2
8/12/2020 14:00	8/12/2020 15:00	941.0
8/12/2020 15:00	8/12/2020 16:00	947.6
8/12/2020 16:00	8/12/2020 17:00	1000.5
8/12/2020 17:00	8/12/2020 18:00	1028.8
8/12/2020 18:00	8/12/2020 19:00	969.0
8/12/2020 19:00	8/12/2020 20:00	958.1
8/12/2020 20:00	8/12/2020 21:00	962.6
8/12/2020 21:00	8/12/2020 22:00	982.0
8/12/2020 22:00	8/12/2020 23:00	906.6
8/12/2020 23:00	8/13/2020 0:00	822.5
8/13/2020 0:00	8/13/2020 1:00	790.2
8/13/2020 1:00	8/13/2020 2:00	810.7
8/13/2020 2:00	8/13/2020 3:00	822.6
8/13/2020 3:00	8/13/2020 4:00	822.6
8/13/2020 4:00	8/13/2020 5:00	836.8
8/13/2020 5:00	8/13/2020 6:00	879.6
8/13/2020 6:00	8/13/2020 7:00	948.3
8/13/2020 7:00	8/13/2020 8:00	1058.1
8/13/2020 8:00	8/13/2020 9:00	1166.3
8/13/2020 9:00	8/13/2020 10:00	1236.2
8/13/2020 10:00	8/13/2020 11:00	1264.5
8/13/2020 11:00	8/13/2020 12:00	1271.1
8/13/2020 12:00	8/13/2020 13:00	1286.3
8/13/2020 13:00	8/13/2020 14:00	1293.1
8/13/2020 14:00	8/13/2020 15:00	1288.6
8/13/2020 15:00	8/13/2020 16:00	1276.3
8/13/2020 16:00	8/13/2020 17:00	1289.4
8/13/2020 17:00	8/13/2020 18:00	1266.1
8/13/2020 18:00	8/13/2020 19:00	1226.2
8/13/2020 19:00	8/13/2020 20:00	1181.9
8/13/2020 20:00	8/13/2020 21:00	1161.2
8/13/2020 21:00	8/13/2020 22:00	1139.0
8/13/2020 22:00	8/13/2020 23:00	1048.5
8/13/2020 23:00	8/14/2020 0:00	1005.4
8/14/2020 0:00	8/14/2020 1:00	998.5
8/14/2020 1:00	8/14/2020 2:00	952.9
8/14/2020 2:00	8/14/2020 3:00	943.9
8/14/2020 3:00	8/14/2020 4:00	933.9
8/14/2020 4:00	8/14/2020 5:00	949.1
8/14/2020 5:00	8/14/2020 6:00	977.4
8/14/2020 6:00	8/14/2020 7:00	1022.7
8/14/2020 7:00	8/14/2020 8:00	1048.0
8/14/2020 8:00	8/14/2020 9:00	1149.1
8/14/2020 9:00	8/14/2020 10:00	1219.0
8/14/2020 10:00	8/14/2020 11:00	1253.5
8/14/2020 11:00	8/14/2020 12:00	1283.2
8/14/2020 12:00	8/14/2020 13:00	1292.3
8/14/2020 13:00	8/14/2020 14:00	1272.7
8/14/2020 14:00	8/14/2020 15:00	1233.1
8/14/2020 15:00	8/14/2020 16:00	1200.6
8/14/2020 16:00	8/14/2020 17:00	1160.9
8/14/2020 17:00	8/14/2020 18:00	1084.7
8/14/2020 18:00	8/14/2020 19:00	1043.2
8/14/2020 19:00	8/14/2020 20:00	1011.7
8/14/2020 20:00	8/14/2020 21:00	984.4
8/14/2020 21:00	8/14/2020 22:00	925.9
8/14/2020 22:00	8/14/2020 23:00	851.4
8/14/2020 23:00	8/15/2020 0:00	802.6
8/15/2020 0:00	8/15/2020 1:00	792.0
8/15/2020 1:00	8/15/2020 2:00	771.5
8/15/2020 2:00	8/15/2020 3:00	759.4

Start Time	End Time	ANL_MW
8/15/2020 3:00	8/15/2020 4:00	770.5
8/15/2020 4:00	8/15/2020 5:00	774.9
8/15/2020 5:00	8/15/2020 6:00	769.8
8/15/2020 6:00	8/15/2020 7:00	785.6
8/15/2020 7:00	8/15/2020 8:00	818.5
8/15/2020 8:00	8/15/2020 9:00	826.5
8/15/2020 9:00	8/15/2020 10:00	880.1
8/15/2020 10:00	8/15/2020 11:00	912.6
8/15/2020 11:00	8/15/2020 12:00	971.3
8/15/2020 12:00	8/15/2020 13:00	986.1
8/15/2020 13:00	8/15/2020 14:00	1002.1
8/15/2020 14:00	8/15/2020 15:00	997.6
8/15/2020 15:00	8/15/2020 16:00	990.4
8/15/2020 16:00	8/15/2020 17:00	1026.9
8/15/2020 17:00	8/15/2020 18:00	1069.3
8/15/2020 18:00	8/15/2020 19:00	1033.9
8/15/2020 19:00	8/15/2020 20:00	1016.4
8/15/2020 20:00	8/15/2020 21:00	1002.8
8/15/2020 21:00	8/15/2020 22:00	969.4
8/15/2020 22:00	8/15/2020 23:00	913.4
8/15/2020 23:00	8/16/2020 0:00	857.3
8/16/2020 0:00	8/16/2020 1:00	830.9
8/16/2020 1:00	8/16/2020 2:00	856.2
8/16/2020 2:00	8/16/2020 3:00	845.3
8/16/2020 3:00	8/16/2020 4:00	835.4
8/16/2020 4:00	8/16/2020 5:00	841.5
8/16/2020 5:00	8/16/2020 6:00	840.5
8/16/2020 6:00	8/16/2020 7:00	847.0
8/16/2020 7:00	8/16/2020 8:00	910.4
8/16/2020 8:00	8/16/2020 9:00	1016.7
8/16/2020 9:00	8/16/2020 10:00	1080.9
8/16/2020 10:00	8/16/2020 11:00	1086.5
8/16/2020 11:00	8/16/2020 12:00	1099.5
8/16/2020 12:00	8/16/2020 13:00	1114.1
8/16/2020 13:00	8/16/2020 14:00	1066.5
8/16/2020 14:00	8/16/2020 15:00	1050.1
8/16/2020 15:00	8/16/2020 16:00	1057.4
8/16/2020 16:00	8/16/2020 17:00	1091.8
8/16/2020 17:00	8/16/2020 18:00	1111.0
8/16/2020 18:00	8/16/2020 19:00	1118.6
8/16/2020 19:00	8/16/2020 20:00	1081.4
8/16/2020 20:00	8/16/2020 21:00	1070.3
8/16/2020 21:00	8/16/2020 22:00	1031.7
8/16/2020 22:00	8/16/2020 23:00	937.1
8/16/2020 23:00	8/17/2020 0:00	855.9
8/17/2020 0:00	8/17/2020 1:00	858.4
8/17/2020 1:00	8/17/2020 2:00	844.7
8/17/2020 2:00	8/17/2020 3:00	833.9
8/17/2020 3:00	8/17/2020 4:00	826.8
8/17/2020 4:00	8/17/2020 5:00	843.6
8/17/2020 5:00	8/17/2020 6:00	882.3
8/17/2020 6:00	8/17/2020 7:00	938.0
8/17/2020 7:00	8/17/2020 8:00	993.4
8/17/2020 8:00	8/17/2020 9:00	1033.5
8/17/2020 9:00	8/17/2020 10:00	1093.3
8/17/2020 10:00	8/17/2020 11:00	1067.3
8/17/2020 11:00	8/17/2020 12:00	1075.2
8/17/2020 12:00	8/17/2020 13:00	1057.3
8/17/2020 13:00	8/17/2020 14:00	1044.6
8/17/2020 14:00	8/17/2020 15:00	995.4
8/17/2020 15:00	8/17/2020 16:00	981.6
8/17/2020 16:00	8/17/2020 17:00	985.6
8/17/2020 17:00	8/17/2020 18:00	969.9
8/17/2020 18:00	8/17/2020 19:00	894.4
8/17/2020 19:00	8/17/2020 20:00	897.8
8/17/2020 20:00	8/17/2020 21:00	960.8
8/17/2020 21:00	8/17/2020 22:00	963.5
8/17/2020 22:00	8/17/2020 23:00	911.0
8/17/2020 23:00	8/18/2020 0:00	853.0
8/18/2020 0:00	8/18/2020 1:00	768.4

Start Time	End Time	ANL_MW
8/18/2020 1:00	8/18/2020 2:00	711.0
8/18/2020 2:00	8/18/2020 3:00	681.9
8/18/2020 3:00	8/18/2020 4:00	683.6
8/18/2020 4:00	8/18/2020 5:00	710.4
8/18/2020 5:00	8/18/2020 6:00	731.9
8/18/2020 6:00	8/18/2020 7:00	700.2
8/18/2020 7:00	8/18/2020 8:00	818.1
8/18/2020 8:00	8/18/2020 9:00	904.9
8/18/2020 9:00	8/18/2020 10:00	983.3
8/18/2020 10:00	8/18/2020 11:00	1026.1
8/18/2020 11:00	8/18/2020 12:00	1063.6
8/18/2020 12:00	8/18/2020 13:00	1053.2
8/18/2020 13:00	8/18/2020 14:00	1024.2
8/18/2020 14:00	8/18/2020 15:00	1027.2
8/18/2020 15:00	8/18/2020 16:00	1041.9
8/18/2020 16:00	8/18/2020 17:00	1053.0
8/18/2020 17:00	8/18/2020 18:00	1075.4
8/18/2020 18:00	8/18/2020 19:00	1041.2
8/18/2020 19:00	8/18/2020 20:00	1050.8
8/18/2020 20:00	8/18/2020 21:00	1045.5
8/18/2020 21:00	8/18/2020 22:00	1022.3
8/18/2020 22:00	8/18/2020 23:00	992.8
8/18/2020 23:00	8/19/2020 0:00	910.0
8/19/2020 0:00	8/19/2020 1:00	824.9
8/19/2020 1:00	8/19/2020 2:00	759.1
8/19/2020 2:00	8/19/2020 3:00	768.8
8/19/2020 3:00	8/19/2020 4:00	746.7
8/19/2020 4:00	8/19/2020 5:00	740.5
8/19/2020 5:00	8/19/2020 6:00	791.1
8/19/2020 6:00	8/19/2020 7:00	791.3
8/19/2020 7:00	8/19/2020 8:00	916.3
8/19/2020 8:00	8/19/2020 9:00	1057.0
8/19/2020 9:00	8/19/2020 10:00	1121.5
8/19/2020 10:00	8/19/2020 11:00	1155.7
8/19/2020 11:00	8/19/2020 12:00	1174.4
8/19/2020 12:00	8/19/2020 13:00	1166.7
8/19/2020 13:00	8/19/2020 14:00	1137.8
8/19/2020 14:00	8/19/2020 15:00	1109.0
8/19/2020 15:00	8/19/2020 16:00	1087.1
8/19/2020 16:00	8/19/2020 17:00	1104.9
8/19/2020 17:00	8/19/2020 18:00	1090.6
8/19/2020 18:00	8/19/2020 19:00	1030.0
8/19/2020 19:00	8/19/2020 20:00	1011.0
8/19/2020 20:00	8/19/2020 21:00	998.7
8/19/2020 21:00	8/19/2020 22:00	990.5
8/19/2020 22:00	8/19/2020 23:00	877.0
8/19/2020 23:00	8/20/2020 0:00	806.4
8/20/2020 0:00	8/20/2020 1:00	730.9
8/20/2020 1:00	8/20/2020 2:00	675.1
8/20/2020 2:00	8/20/2020 3:00	631.5
8/20/2020 3:00	8/20/2020 4:00	618.1
8/20/2020 4:00	8/20/2020 5:00	678.1
8/20/2020 5:00	8/20/2020 6:00	758.4
8/20/2020 6:00	8/20/2020 7:00	818.9
8/20/2020 7:00	8/20/2020 8:00	854.0
8/20/2020 8:00	8/20/2020 9:00	984.9
8/20/2020 9:00	8/20/2020 10:00	1031.1
8/20/2020 10:00	8/20/2020 11:00	1002.9
8/20/2020 11:00	8/20/2020 12:00	999.7
8/20/2020 12:00	8/20/2020 13:00	976.5
8/20/2020 13:00	8/20/2020 14:00	930.7
8/20/2020 14:00	8/20/2020 15:00	877.2
8/20/2020 15:00	8/20/2020 16:00	876.4
8/20/2020 16:00	8/20/2020 17:00	936.9
8/20/2020 17:00	8/20/2020 18:00	976.6
8/20/2020 18:00	8/20/2020 19:00	968.8
8/20/2020 19:00	8/20/2020 20:00	999.0
8/20/2020 20:00	8/20/2020 21:00	954.2
8/20/2020 21:00	8/20/2020 22:00	910.0
8/20/2020 22:00	8/20/2020 23:00	829.7

Start Time	End Time	ANL_MW
8/20/2020 23:00	8/21/2020 0:00	801.8
8/21/2020 0:00	8/21/2020 1:00	767.4
8/21/2020 1:00	8/21/2020 2:00	744.1
8/21/2020 2:00	8/21/2020 3:00	751.2
8/21/2020 3:00	8/21/2020 4:00	737.3
8/21/2020 4:00	8/21/2020 5:00	729.0
8/21/2020 5:00	8/21/2020 6:00	759.7
8/21/2020 6:00	8/21/2020 7:00	844.7
8/21/2020 7:00	8/21/2020 8:00	926.7
8/21/2020 8:00	8/21/2020 9:00	1051.7
8/21/2020 9:00	8/21/2020 10:00	1136.1
8/21/2020 10:00	8/21/2020 11:00	1083.7
8/21/2020 11:00	8/21/2020 12:00	1002.3
8/21/2020 12:00	8/21/2020 13:00	1015.9
8/21/2020 13:00	8/21/2020 14:00	1047.1
8/21/2020 14:00	8/21/2020 15:00	1069.9
8/21/2020 15:00	8/21/2020 16:00	1097.6
8/21/2020 16:00	8/21/2020 17:00	1114.0
8/21/2020 17:00	8/21/2020 18:00	1126.1
8/21/2020 18:00	8/21/2020 19:00	1018.0
8/21/2020 19:00	8/21/2020 20:00	984.0
8/21/2020 20:00	8/21/2020 21:00	1030.5
8/21/2020 21:00	8/21/2020 22:00	1012.9
8/21/2020 22:00	8/21/2020 23:00	982.7
8/21/2020 23:00	8/22/2020 0:00	965.1
8/22/2020 0:00	8/22/2020 1:00	903.6
8/22/2020 1:00	8/22/2020 2:00	857.8
8/22/2020 2:00	8/22/2020 3:00	847.5
8/22/2020 3:00	8/22/2020 4:00	850.7
8/22/2020 4:00	8/22/2020 5:00	868.9
8/22/2020 5:00	8/22/2020 6:00	895.0
8/22/2020 6:00	8/22/2020 7:00	920.9
8/22/2020 7:00	8/22/2020 8:00	979.0
8/22/2020 8:00	8/22/2020 9:00	998.7
8/22/2020 9:00	8/22/2020 10:00	1064.0
8/22/2020 10:00	8/22/2020 11:00	1101.5
8/22/2020 11:00	8/22/2020 12:00	1123.5
8/22/2020 12:00	8/22/2020 13:00	1121.9
8/22/2020 13:00	8/22/2020 14:00	1101.8
8/22/2020 14:00	8/22/2020 15:00	1064.1
8/22/2020 15:00	8/22/2020 16:00	1056.5
8/22/2020 16:00	8/22/2020 17:00	1083.5
8/22/2020 17:00	8/22/2020 18:00	1112.0
8/22/2020 18:00	8/22/2020 19:00	1101.6
8/22/2020 19:00	8/22/2020 20:00	1078.6
8/22/2020 20:00	8/22/2020 21:00	1069.1
8/22/2020 21:00	8/22/2020 22:00	1032.7
8/22/2020 22:00	8/22/2020 23:00	953.6
8/22/2020 23:00	8/23/2020 0:00	886.6
8/23/2020 0:00	8/23/2020 1:00	877.5
8/23/2020 1:00	8/23/2020 2:00	812.8
8/23/2020 2:00	8/23/2020 3:00	769.9
8/23/2020 3:00	8/23/2020 4:00	730.5
8/23/2020 4:00	8/23/2020 5:00	721.5
8/23/2020 5:00	8/23/2020 6:00	739.9
8/23/2020 6:00	8/23/2020 7:00	762.2
8/23/2020 7:00	8/23/2020 8:00	796.7
8/23/2020 8:00	8/23/2020 9:00	920.0
8/23/2020 9:00	8/23/2020 10:00	1020.8
8/23/2020 10:00	8/23/2020 11:00	1070.2
8/23/2020 11:00	8/23/2020 12:00	1082.6
8/23/2020 12:00	8/23/2020 13:00	1050.1
8/23/2020 13:00	8/23/2020 14:00	1008.0
8/23/2020 14:00	8/23/2020 15:00	968.1
8/23/2020 15:00	8/23/2020 16:00	946.3
8/23/2020 16:00	8/23/2020 17:00	957.2
8/23/2020 17:00	8/23/2020 18:00	980.4
8/23/2020 18:00	8/23/2020 19:00	957.7
8/23/2020 19:00	8/23/2020 20:00	939.4
8/23/2020 20:00	8/23/2020 21:00	915.8

Start Time	End Time	ANL_MW
8/23/2020 21:00	8/23/2020 22:00	870.2
8/23/2020 22:00	8/23/2020 23:00	788.1
8/23/2020 23:00	8/24/2020 0:00	755.0
8/24/2020 0:00	8/24/2020 1:00	695.2
8/24/2020 1:00	8/24/2020 2:00	679.0
8/24/2020 2:00	8/24/2020 3:00	701.8
8/24/2020 3:00	8/24/2020 4:00	722.6
8/24/2020 4:00	8/24/2020 5:00	752.6
8/24/2020 5:00	8/24/2020 6:00	816.9
8/24/2020 6:00	8/24/2020 7:00	879.0
8/24/2020 7:00	8/24/2020 8:00	970.4
8/24/2020 8:00	8/24/2020 9:00	1079.0
8/24/2020 9:00	8/24/2020 10:00	1146.4
8/24/2020 10:00	8/24/2020 11:00	1179.1
8/24/2020 11:00	8/24/2020 12:00	1203.9
8/24/2020 12:00	8/24/2020 13:00	1189.9
8/24/2020 13:00	8/24/2020 14:00	1170.2
8/24/2020 14:00	8/24/2020 15:00	1134.5
8/24/2020 15:00	8/24/2020 16:00	1156.3
8/24/2020 16:00	8/24/2020 17:00	1208.8
8/24/2020 17:00	8/24/2020 18:00	1242.1
8/24/2020 18:00	8/24/2020 19:00	1204.0
8/24/2020 19:00	8/24/2020 20:00	1151.3
8/24/2020 20:00	8/24/2020 21:00	1127.4
8/24/2020 21:00	8/24/2020 22:00	1101.8
8/24/2020 22:00	8/24/2020 23:00	1019.5
8/24/2020 23:00	8/25/2020 0:00	950.3
8/25/2020 0:00	8/25/2020 1:00	876.2
8/25/2020 1:00	8/25/2020 2:00	804.2
8/25/2020 2:00	8/25/2020 3:00	767.8
8/25/2020 3:00	8/25/2020 4:00	767.6
8/25/2020 4:00	8/25/2020 5:00	819.2
8/25/2020 5:00	8/25/2020 6:00	847.7
8/25/2020 6:00	8/25/2020 7:00	890.3
8/25/2020 7:00	8/25/2020 8:00	913.4
8/25/2020 8:00	8/25/2020 9:00	969.7
8/25/2020 9:00	8/25/2020 10:00	992.0
8/25/2020 10:00	8/25/2020 11:00	991.8
8/25/2020 11:00	8/25/2020 12:00	953.9
8/25/2020 12:00	8/25/2020 13:00	891.4
8/25/2020 13:00	8/25/2020 14:00	837.0
8/25/2020 14:00	8/25/2020 15:00	790.6
8/25/2020 15:00	8/25/2020 16:00	813.0
8/25/2020 16:00	8/25/2020 17:00	883.8
8/25/2020 17:00	8/25/2020 18:00	877.0
8/25/2020 18:00	8/25/2020 19:00	915.5
8/25/2020 19:00	8/25/2020 20:00	887.6
8/25/2020 20:00	8/25/2020 21:00	859.2
8/25/2020 21:00	8/25/2020 22:00	814.8
8/25/2020 22:00	8/25/2020 23:00	726.7
8/25/2020 23:00	8/26/2020 0:00	658.4
8/26/2020 0:00	8/26/2020 1:00	671.2
8/26/2020 1:00	8/26/2020 2:00	680.2
8/26/2020 2:00	8/26/2020 3:00	669.1
8/26/2020 3:00	8/26/2020 4:00	661.5
8/26/2020 4:00	8/26/2020 5:00	650.1
8/26/2020 5:00	8/26/2020 6:00	632.3
8/26/2020 6:00	8/26/2020 7:00	639.3
8/26/2020 7:00	8/26/2020 8:00	700.5
8/26/2020 8:00	8/26/2020 9:00	732.9
8/26/2020 9:00	8/26/2020 10:00	772.7
8/26/2020 10:00	8/26/2020 11:00	804.0
8/26/2020 11:00	8/26/2020 12:00	846.1
8/26/2020 12:00	8/26/2020 13:00	834.1
8/26/2020 13:00	8/26/2020 14:00	794.7
8/26/2020 14:00	8/26/2020 15:00	752.9
8/26/2020 15:00	8/26/2020 16:00	747.8
8/26/2020 16:00	8/26/2020 17:00	772.9
8/26/2020 17:00	8/26/2020 18:00	804.1
8/26/2020 18:00	8/26/2020 19:00	800.7

Start Time	End Time	ANL_MW
8/26/2020 19:00	8/26/2020 20:00	818.0
8/26/2020 20:00	8/26/2020 21:00	860.8
8/26/2020 21:00	8/26/2020 22:00	769.5
8/26/2020 22:00	8/26/2020 23:00	715.0
8/26/2020 23:00	8/27/2020 0:00	676.7
8/27/2020 0:00	8/27/2020 1:00	593.4
8/27/2020 1:00	8/27/2020 2:00	506.6
8/27/2020 2:00	8/27/2020 3:00	474.0
8/27/2020 3:00	8/27/2020 4:00	404.0
8/27/2020 4:00	8/27/2020 5:00	376.2
8/27/2020 5:00	8/27/2020 6:00	429.0
8/27/2020 6:00	8/27/2020 7:00	498.7
8/27/2020 7:00	8/27/2020 8:00	623.5
8/27/2020 8:00	8/27/2020 9:00	765.6
8/27/2020 9:00	8/27/2020 10:00	734.1
8/27/2020 10:00	8/27/2020 11:00	679.4
8/27/2020 11:00	8/27/2020 12:00	695.7
8/27/2020 12:00	8/27/2020 13:00	689.6
8/27/2020 13:00	8/27/2020 14:00	673.6
8/27/2020 14:00	8/27/2020 15:00	663.1
8/27/2020 15:00	8/27/2020 16:00	704.5
8/27/2020 16:00	8/27/2020 17:00	765.4
8/27/2020 17:00	8/27/2020 18:00	800.4
8/27/2020 18:00	8/27/2020 19:00	819.3
8/27/2020 19:00	8/27/2020 20:00	870.5
8/27/2020 20:00	8/27/2020 21:00	890.6
8/27/2020 21:00	8/27/2020 22:00	837.9
8/27/2020 22:00	8/27/2020 23:00	780.0
8/27/2020 23:00	8/28/2020 0:00	730.6
8/28/2020 0:00	8/28/2020 1:00	757.1
8/28/2020 1:00	8/28/2020 2:00	744.7
8/28/2020 2:00	8/28/2020 3:00	725.5
8/28/2020 3:00	8/28/2020 4:00	700.4
8/28/2020 4:00	8/28/2020 5:00	681.3
8/28/2020 5:00	8/28/2020 6:00	701.3
8/28/2020 6:00	8/28/2020 7:00	663.9
8/28/2020 7:00	8/28/2020 8:00	756.6
8/28/2020 8:00	8/28/2020 9:00	935.0
8/28/2020 9:00	8/28/2020 10:00	976.2
8/28/2020 10:00	8/28/2020 11:00	929.6
8/28/2020 11:00	8/28/2020 12:00	847.6
8/28/2020 12:00	8/28/2020 13:00	832.2
8/28/2020 13:00	8/28/2020 14:00	832.4
8/28/2020 14:00	8/28/2020 15:00	818.8
8/28/2020 15:00	8/28/2020 16:00	793.5
8/28/2020 16:00	8/28/2020 17:00	808.6
8/28/2020 17:00	8/28/2020 18:00	857.2
8/28/2020 18:00	8/28/2020 19:00	863.8
8/28/2020 19:00	8/28/2020 20:00	860.1
8/28/2020 20:00	8/28/2020 21:00	864.7
8/28/2020 21:00	8/28/2020 22:00	842.8
8/28/2020 22:00	8/28/2020 23:00	756.8
8/28/2020 23:00	8/29/2020 0:00	764.4
8/29/2020 0:00	8/29/2020 1:00	790.4
8/29/2020 1:00	8/29/2020 2:00	772.3
8/29/2020 2:00	8/29/2020 3:00	773.5
8/29/2020 3:00	8/29/2020 4:00	771.4
8/29/2020 4:00	8/29/2020 5:00	779.9
8/29/2020 5:00	8/29/2020 6:00	803.3
8/29/2020 6:00	8/29/2020 7:00	760.2
8/29/2020 7:00	8/29/2020 8:00	816.1
8/29/2020 8:00	8/29/2020 9:00	925.9
8/29/2020 9:00	8/29/2020 10:00	1003.3
8/29/2020 10:00	8/29/2020 11:00	1022.2
8/29/2020 11:00	8/29/2020 12:00	1026.3
8/29/2020 12:00	8/29/2020 13:00	999.5
8/29/2020 13:00	8/29/2020 14:00	972.3
8/29/2020 14:00	8/29/2020 15:00	927.5
8/29/2020 15:00	8/29/2020 16:00	946.4
8/29/2020 16:00	8/29/2020 17:00	985.9

Start Time	End Time	ANL_MW
8/29/2020 17:00	8/29/2020 18:00	954.7
8/29/2020 18:00	8/29/2020 19:00	840.5
8/29/2020 19:00	8/29/2020 20:00	750.3
8/29/2020 20:00	8/29/2020 21:00	665.6
8/29/2020 21:00	8/29/2020 22:00	640.3
8/29/2020 22:00	8/29/2020 23:00	622.7
8/29/2020 23:00	8/30/2020 0:00	584.2
8/30/2020 0:00	8/30/2020 1:00	560.8
8/30/2020 1:00	8/30/2020 2:00	602.1
8/30/2020 2:00	8/30/2020 3:00	620.2
8/30/2020 3:00	8/30/2020 4:00	637.8
8/30/2020 4:00	8/30/2020 5:00	631.0
8/30/2020 5:00	8/30/2020 6:00	648.6
8/30/2020 6:00	8/30/2020 7:00	739.3
8/30/2020 7:00	8/30/2020 8:00	817.8
8/30/2020 8:00	8/30/2020 9:00	872.9
8/30/2020 9:00	8/30/2020 10:00	958.8
8/30/2020 10:00	8/30/2020 11:00	991.8
8/30/2020 11:00	8/30/2020 12:00	973.2
8/30/2020 12:00	8/30/2020 13:00	932.7
8/30/2020 13:00	8/30/2020 14:00	864.7
8/30/2020 14:00	8/30/2020 15:00	784.4
8/30/2020 15:00	8/30/2020 16:00	748.3
8/30/2020 16:00	8/30/2020 17:00	746.6
8/30/2020 17:00	8/30/2020 18:00	759.4
8/30/2020 18:00	8/30/2020 19:00	704.1
8/30/2020 19:00	8/30/2020 20:00	692.3
8/30/2020 20:00	8/30/2020 21:00	708.6
8/30/2020 21:00	8/30/2020 22:00	693.2
8/30/2020 22:00	8/30/2020 23:00	641.8
8/30/2020 23:00	8/31/2020 0:00	558.7
8/31/2020 0:00	8/31/2020 1:00	538.8
8/31/2020 1:00	8/31/2020 2:00	549.2
8/31/2020 2:00	8/31/2020 3:00	556.5
8/31/2020 3:00	8/31/2020 4:00	527.8
8/31/2020 4:00	8/31/2020 5:00	558.7
8/31/2020 5:00	8/31/2020 6:00	607.6
8/31/2020 6:00	8/31/2020 7:00	677.7
8/31/2020 7:00	8/31/2020 8:00	767.7
8/31/2020 8:00	8/31/2020 9:00	813.8
8/31/2020 9:00	8/31/2020 10:00	802.8
8/31/2020 10:00	8/31/2020 11:00	797.2
8/31/2020 11:00	8/31/2020 12:00	874.0
8/31/2020 12:00	8/31/2020 13:00	916.9
8/31/2020 13:00	8/31/2020 14:00	939.8
8/31/2020 14:00	8/31/2020 15:00	922.4
8/31/2020 15:00	8/31/2020 16:00	914.4
8/31/2020 16:00	8/31/2020 17:00	951.4
8/31/2020 17:00	8/31/2020 18:00	979.7
8/31/2020 18:00	8/31/2020 19:00	968.8
8/31/2020 19:00	8/31/2020 20:00	965.5
8/31/2020 20:00	8/31/2020 21:00	963.5
8/31/2020 21:00	8/31/2020 22:00	913.1
8/31/2020 22:00	8/31/2020 23:00	820.1
8/31/2020 23:00	9/1/2020 0:00	764.0
9/1/2020 0:00	9/1/2020 1:00	720.2
9/1/2020 1:00	9/1/2020 2:00	690.5
9/1/2020 2:00	9/1/2020 3:00	700.4
9/1/2020 3:00	9/1/2020 4:00	730.0
9/1/2020 4:00	9/1/2020 5:00	770.7
9/1/2020 5:00	9/1/2020 6:00	835.3
9/1/2020 6:00	9/1/2020 7:00	916.8
9/1/2020 7:00	9/1/2020 8:00	1016.0
9/1/2020 8:00	9/1/2020 9:00	1081.9
9/1/2020 9:00	9/1/2020 10:00	1113.7
9/1/2020 10:00	9/1/2020 11:00	1129.8
9/1/2020 11:00	9/1/2020 12:00	1147.4
9/1/2020 12:00	9/1/2020 13:00	1153.8
9/1/2020 13:00	9/1/2020 14:00	1136.8
9/1/2020 14:00	9/1/2020 15:00	1123.2

Start Time	End Time	ANL_MW
9/1/2020 15:00	9/1/2020 16:00	1121.3
9/1/2020 16:00	9/1/2020 17:00	1146.6
9/1/2020 17:00	9/1/2020 18:00	1139.4
9/1/2020 18:00	9/1/2020 19:00	1095.3
9/1/2020 19:00	9/1/2020 20:00	1063.2
9/1/2020 20:00	9/1/2020 21:00	1055.6
9/1/2020 21:00	9/1/2020 22:00	994.1
9/1/2020 22:00	9/1/2020 23:00	908.9
9/1/2020 23:00	9/2/2020 0:00	816.6
9/2/2020 0:00	9/2/2020 1:00	787.2
9/2/2020 1:00	9/2/2020 2:00	759.5
9/2/2020 2:00	9/2/2020 3:00	740.1
9/2/2020 3:00	9/2/2020 4:00	728.3
9/2/2020 4:00	9/2/2020 5:00	744.3
9/2/2020 5:00	9/2/2020 6:00	786.6
9/2/2020 6:00	9/2/2020 7:00	848.8
9/2/2020 7:00	9/2/2020 8:00	903.0
9/2/2020 8:00	9/2/2020 9:00	981.2
9/2/2020 9:00	9/2/2020 10:00	1037.0
9/2/2020 10:00	9/2/2020 11:00	993.0
9/2/2020 11:00	9/2/2020 12:00	932.4
9/2/2020 12:00	9/2/2020 13:00	925.6
9/2/2020 13:00	9/2/2020 14:00	919.1
9/2/2020 14:00	9/2/2020 15:00	888.8
9/2/2020 15:00	9/2/2020 16:00	886.2
9/2/2020 16:00	9/2/2020 17:00	829.9
9/2/2020 17:00	9/2/2020 18:00	792.7
9/2/2020 18:00	9/2/2020 19:00	775.0
9/2/2020 19:00	9/2/2020 20:00	797.4
9/2/2020 20:00	9/2/2020 21:00	835.9
9/2/2020 21:00	9/2/2020 22:00	765.4
9/2/2020 22:00	9/2/2020 23:00	700.7
9/2/2020 23:00	9/3/2020 0:00	612.2
9/3/2020 0:00	9/3/2020 1:00	566.1
9/3/2020 1:00	9/3/2020 2:00	510.0
9/3/2020 2:00	9/3/2020 3:00	502.3
9/3/2020 3:00	9/3/2020 4:00	506.7
9/3/2020 4:00	9/3/2020 5:00	519.0
9/3/2020 5:00	9/3/2020 6:00	551.5
9/3/2020 6:00	9/3/2020 7:00	568.9
9/3/2020 7:00	9/3/2020 8:00	645.7
9/3/2020 8:00	9/3/2020 9:00	708.6
9/3/2020 9:00	9/3/2020 10:00	786.8
9/3/2020 10:00	9/3/2020 11:00	848.7
9/3/2020 11:00	9/3/2020 12:00	893.0
9/3/2020 12:00	9/3/2020 13:00	931.0
9/3/2020 13:00	9/3/2020 14:00	955.9
9/3/2020 14:00	9/3/2020 15:00	993.2
9/3/2020 15:00	9/3/2020 16:00	1038.2
9/3/2020 16:00	9/3/2020 17:00	1080.3
9/3/2020 17:00	9/3/2020 18:00	1100.5
9/3/2020 18:00	9/3/2020 19:00	1046.9
9/3/2020 19:00	9/3/2020 20:00	1001.1
9/3/2020 20:00	9/3/2020 21:00	947.3
9/3/2020 21:00	9/3/2020 22:00	811.3
9/3/2020 22:00	9/3/2020 23:00	732.6
9/3/2020 23:00	9/4/2020 0:00	653.5
9/4/2020 0:00	9/4/2020 1:00	575.8
9/4/2020 1:00	9/4/2020 2:00	527.6
9/4/2020 2:00	9/4/2020 3:00	544.4
9/4/2020 3:00	9/4/2020 4:00	575.7
9/4/2020 4:00	9/4/2020 5:00	564.3
9/4/2020 5:00	9/4/2020 6:00	543.6
9/4/2020 6:00	9/4/2020 7:00	607.5
9/4/2020 7:00	9/4/2020 8:00	706.9
9/4/2020 8:00	9/4/2020 9:00	810.0
9/4/2020 9:00	9/4/2020 10:00	912.4
9/4/2020 10:00	9/4/2020 11:00	959.1
9/4/2020 11:00	9/4/2020 12:00	976.7
9/4/2020 12:00	9/4/2020 13:00	974.1

Start Time	End Time	ANL_MW
9/4/2020 13:00	9/4/2020 14:00	973.2
9/4/2020 14:00	9/4/2020 15:00	970.7
9/4/2020 15:00	9/4/2020 16:00	954.1
9/4/2020 16:00	9/4/2020 17:00	965.7
9/4/2020 17:00	9/4/2020 18:00	990.2
9/4/2020 18:00	9/4/2020 19:00	987.5
9/4/2020 19:00	9/4/2020 20:00	948.5
9/4/2020 20:00	9/4/2020 21:00	916.6
9/4/2020 21:00	9/4/2020 22:00	892.8
9/4/2020 22:00	9/4/2020 23:00	849.3
9/4/2020 23:00	9/5/2020 0:00	813.8
9/5/2020 0:00	9/5/2020 1:00	763.7
9/5/2020 1:00	9/5/2020 2:00	782.7
9/5/2020 2:00	9/5/2020 3:00	731.2
9/5/2020 3:00	9/5/2020 4:00	672.2
9/5/2020 4:00	9/5/2020 5:00	675.1
9/5/2020 5:00	9/5/2020 6:00	682.3
9/5/2020 6:00	9/5/2020 7:00	702.3
9/5/2020 7:00	9/5/2020 8:00	761.0
9/5/2020 8:00	9/5/2020 9:00	883.8
9/5/2020 9:00	9/5/2020 10:00	998.7
9/5/2020 10:00	9/5/2020 11:00	1033.5
9/5/2020 11:00	9/5/2020 12:00	1036.2
9/5/2020 12:00	9/5/2020 13:00	1009.2
9/5/2020 13:00	9/5/2020 14:00	959.0
9/5/2020 14:00	9/5/2020 15:00	912.5
9/5/2020 15:00	9/5/2020 16:00	914.8
9/5/2020 16:00	9/5/2020 17:00	941.8
9/5/2020 17:00	9/5/2020 18:00	969.8
9/5/2020 18:00	9/5/2020 19:00	968.9
9/5/2020 19:00	9/5/2020 20:00	944.5
9/5/2020 20:00	9/5/2020 21:00	900.8
9/5/2020 21:00	9/5/2020 22:00	809.7
9/5/2020 22:00	9/5/2020 23:00	734.1
9/5/2020 23:00	9/6/2020 0:00	711.9
9/6/2020 0:00	9/6/2020 1:00	696.6
9/6/2020 1:00	9/6/2020 2:00	695.9
9/6/2020 2:00	9/6/2020 3:00	693.1
9/6/2020 3:00	9/6/2020 4:00	685.7
9/6/2020 4:00	9/6/2020 5:00	675.8
9/6/2020 5:00	9/6/2020 6:00	676.8
9/6/2020 6:00	9/6/2020 7:00	751.8
9/6/2020 7:00	9/6/2020 8:00	769.7
9/6/2020 8:00	9/6/2020 9:00	847.8
9/6/2020 9:00	9/6/2020 10:00	977.6
9/6/2020 10:00	9/6/2020 11:00	1013.5
9/6/2020 11:00	9/6/2020 12:00	991.2
9/6/2020 12:00	9/6/2020 13:00	944.7
9/6/2020 13:00	9/6/2020 14:00	896.5
9/6/2020 14:00	9/6/2020 15:00	866.6
9/6/2020 15:00	9/6/2020 16:00	890.7
9/6/2020 16:00	9/6/2020 17:00	957.0
9/6/2020 17:00	9/6/2020 18:00	1007.3
9/6/2020 18:00	9/6/2020 19:00	998.8
9/6/2020 19:00	9/6/2020 20:00	990.7
9/6/2020 20:00	9/6/2020 21:00	1006.3
9/6/2020 21:00	9/6/2020 22:00	982.2
9/6/2020 22:00	9/6/2020 23:00	939.4
9/6/2020 23:00	9/7/2020 0:00	886.2
9/7/2020 0:00	9/7/2020 1:00	901.2
9/7/2020 1:00	9/7/2020 2:00	876.5
9/7/2020 2:00	9/7/2020 3:00	859.9
9/7/2020 3:00	9/7/2020 4:00	852.8
9/7/2020 4:00	9/7/2020 5:00	849.8
9/7/2020 5:00	9/7/2020 6:00	865.0
9/7/2020 6:00	9/7/2020 7:00	874.1
9/7/2020 7:00	9/7/2020 8:00	859.2
9/7/2020 8:00	9/7/2020 9:00	901.4
9/7/2020 9:00	9/7/2020 10:00	960.8
9/7/2020 10:00	9/7/2020 11:00	1023.7

Start Time	End Time	ANL_MW
9/7/2020 11:00	9/7/2020 12:00	1044.9
9/7/2020 12:00	9/7/2020 13:00	1031.2
9/7/2020 13:00	9/7/2020 14:00	943.2
9/7/2020 14:00	9/7/2020 15:00	861.4
9/7/2020 15:00	9/7/2020 16:00	821.9
9/7/2020 16:00	9/7/2020 17:00	854.1
9/7/2020 17:00	9/7/2020 18:00	898.4
9/7/2020 18:00	9/7/2020 19:00	919.6
9/7/2020 19:00	9/7/2020 20:00	934.0
9/7/2020 20:00	9/7/2020 21:00	916.9
9/7/2020 21:00	9/7/2020 22:00	813.6
9/7/2020 22:00	9/7/2020 23:00	712.9
9/7/2020 23:00	9/8/2020 0:00	629.2
9/8/2020 0:00	9/8/2020 1:00	581.6
9/8/2020 1:00	9/8/2020 2:00	575.0
9/8/2020 2:00	9/8/2020 3:00	622.8
9/8/2020 3:00	9/8/2020 4:00	640.9
9/8/2020 4:00	9/8/2020 5:00	694.1
9/8/2020 5:00	9/8/2020 6:00	781.9
9/8/2020 6:00	9/8/2020 7:00	919.1
9/8/2020 7:00	9/8/2020 8:00	963.3
9/8/2020 8:00	9/8/2020 9:00	1021.4
9/8/2020 9:00	9/8/2020 10:00	1048.0
9/8/2020 10:00	9/8/2020 11:00	1094.3
9/8/2020 11:00	9/8/2020 12:00	1089.2
9/8/2020 12:00	9/8/2020 13:00	1094.6
9/8/2020 13:00	9/8/2020 14:00	1100.1
9/8/2020 14:00	9/8/2020 15:00	1109.5
9/8/2020 15:00	9/8/2020 16:00	1119.8
9/8/2020 16:00	9/8/2020 17:00	1178.5
9/8/2020 17:00	9/8/2020 18:00	1188.9
9/8/2020 18:00	9/8/2020 19:00	1147.4
9/8/2020 19:00	9/8/2020 20:00	1101.4
9/8/2020 20:00	9/8/2020 21:00	1099.1
9/8/2020 21:00	9/8/2020 22:00	982.6
9/8/2020 22:00	9/8/2020 23:00	930.8
9/8/2020 23:00	9/9/2020 0:00	883.8
9/9/2020 0:00	9/9/2020 1:00	896.4
9/9/2020 1:00	9/9/2020 2:00	874.3
9/9/2020 2:00	9/9/2020 3:00	861.5
9/9/2020 3:00	9/9/2020 4:00	868.0
9/9/2020 4:00	9/9/2020 5:00	887.8
9/9/2020 5:00	9/9/2020 6:00	942.3
9/9/2020 6:00	9/9/2020 7:00	1035.1
9/9/2020 7:00	9/9/2020 8:00	1075.4
9/9/2020 8:00	9/9/2020 9:00	1103.5
9/9/2020 9:00	9/9/2020 10:00	1135.0
9/9/2020 10:00	9/9/2020 11:00	1175.7
9/9/2020 11:00	9/9/2020 12:00	1213.2
9/9/2020 12:00	9/9/2020 13:00	1222.4
9/9/2020 13:00	9/9/2020 14:00	1228.1
9/9/2020 14:00	9/9/2020 15:00	1224.7
9/9/2020 15:00	9/9/2020 16:00	1246.8
9/9/2020 16:00	9/9/2020 17:00	1220.3
9/9/2020 17:00	9/9/2020 18:00	1232.9
9/9/2020 18:00	9/9/2020 19:00	1184.0
9/9/2020 19:00	9/9/2020 20:00	1164.5
9/9/2020 20:00	9/9/2020 21:00	1171.0
9/9/2020 21:00	9/9/2020 22:00	1096.6
9/9/2020 22:00	9/9/2020 23:00	1046.9
9/9/2020 23:00	9/10/2020 0:00	972.3
9/10/2020 0:00	9/10/2020 1:00	961.5
9/10/2020 1:00	9/10/2020 2:00	933.9
9/10/2020 2:00	9/10/2020 3:00	915.0
9/10/2020 3:00	9/10/2020 4:00	913.2
9/10/2020 4:00	9/10/2020 5:00	920.3
9/10/2020 5:00	9/10/2020 6:00	950.0
9/10/2020 6:00	9/10/2020 7:00	1042.8
9/10/2020 7:00	9/10/2020 8:00	1069.2
9/10/2020 8:00	9/10/2020 9:00	1102.6

Start Time	End Time	ANL_MW
9/10/2020 9:00	9/10/2020 10:00	1137.6
9/10/2020 10:00	9/10/2020 11:00	1151.1
9/10/2020 11:00	9/10/2020 12:00	1168.8
9/10/2020 12:00	9/10/2020 13:00	1167.7
9/10/2020 13:00	9/10/2020 14:00	1146.0
9/10/2020 14:00	9/10/2020 15:00	1119.8
9/10/2020 15:00	9/10/2020 16:00	1125.7
9/10/2020 16:00	9/10/2020 17:00	1101.1
9/10/2020 17:00	9/10/2020 18:00	1119.1
9/10/2020 18:00	9/10/2020 19:00	1060.3
9/10/2020 19:00	9/10/2020 20:00	1020.2
9/10/2020 20:00	9/10/2020 21:00	1021.8
9/10/2020 21:00	9/10/2020 22:00	934.2
9/10/2020 22:00	9/10/2020 23:00	834.7
9/10/2020 23:00	9/11/2020 0:00	818.4
9/11/2020 0:00	9/11/2020 1:00	812.5
9/11/2020 1:00	9/11/2020 2:00	742.0
9/11/2020 2:00	9/11/2020 3:00	705.2
9/11/2020 3:00	9/11/2020 4:00	646.7
9/11/2020 4:00	9/11/2020 5:00	663.2
9/11/2020 5:00	9/11/2020 6:00	634.8
9/11/2020 6:00	9/11/2020 7:00	709.2
9/11/2020 7:00	9/11/2020 8:00	781.7
9/11/2020 8:00	9/11/2020 9:00	842.9
9/11/2020 9:00	9/11/2020 10:00	857.0
9/11/2020 10:00	9/11/2020 11:00	838.4
9/11/2020 11:00	9/11/2020 12:00	840.4
9/11/2020 12:00	9/11/2020 13:00	808.9
9/11/2020 13:00	9/11/2020 14:00	796.7
9/11/2020 14:00	9/11/2020 15:00	767.7
9/11/2020 15:00	9/11/2020 16:00	785.5
9/11/2020 16:00	9/11/2020 17:00	819.7
9/11/2020 17:00	9/11/2020 18:00	864.3
9/11/2020 18:00	9/11/2020 19:00	884.7
9/11/2020 19:00	9/11/2020 20:00	898.6
9/11/2020 20:00	9/11/2020 21:00	904.5
9/11/2020 21:00	9/11/2020 22:00	840.5
9/11/2020 22:00	9/11/2020 23:00	813.4
9/11/2020 23:00	9/12/2020 0:00	806.9
9/12/2020 0:00	9/12/2020 1:00	793.4
9/12/2020 1:00	9/12/2020 2:00	822.6
9/12/2020 2:00	9/12/2020 3:00	842.3
9/12/2020 3:00	9/12/2020 4:00	842.9
9/12/2020 4:00	9/12/2020 5:00	842.7
9/12/2020 5:00	9/12/2020 6:00	847.7
9/12/2020 6:00	9/12/2020 7:00	853.7
9/12/2020 7:00	9/12/2020 8:00	908.7
9/12/2020 8:00	9/12/2020 9:00	958.2
9/12/2020 9:00	9/12/2020 10:00	1048.2
9/12/2020 10:00	9/12/2020 11:00	1073.1
9/12/2020 11:00	9/12/2020 12:00	1059.9
9/12/2020 12:00	9/12/2020 13:00	1033.3
9/12/2020 13:00	9/12/2020 14:00	1000.1
9/12/2020 14:00	9/12/2020 15:00	977.9
9/12/2020 15:00	9/12/2020 16:00	974.5
9/12/2020 16:00	9/12/2020 17:00	997.5
9/12/2020 17:00	9/12/2020 18:00	1018.2
9/12/2020 18:00	9/12/2020 19:00	1000.3
9/12/2020 19:00	9/12/2020 20:00	993.1
9/12/2020 20:00	9/12/2020 21:00	999.7
9/12/2020 21:00	9/12/2020 22:00	951.3
9/12/2020 22:00	9/12/2020 23:00	893.1
9/12/2020 23:00	9/13/2020 0:00	842.5
9/13/2020 0:00	9/13/2020 1:00	825.9
9/13/2020 1:00	9/13/2020 2:00	820.5
9/13/2020 2:00	9/13/2020 3:00	791.7
9/13/2020 3:00	9/13/2020 4:00	751.5
9/13/2020 4:00	9/13/2020 5:00	727.5
9/13/2020 5:00	9/13/2020 6:00	715.3
9/13/2020 6:00	9/13/2020 7:00	727.8

Start Time	End Time	ANL_MW
9/13/2020 7:00	9/13/2020 8:00	776.3
9/13/2020 8:00	9/13/2020 9:00	912.6
9/13/2020 9:00	9/13/2020 10:00	982.5
9/13/2020 10:00	9/13/2020 11:00	977.7
9/13/2020 11:00	9/13/2020 12:00	913.3
9/13/2020 12:00	9/13/2020 13:00	868.5
9/13/2020 13:00	9/13/2020 14:00	870.9
9/13/2020 14:00	9/13/2020 15:00	829.3
9/13/2020 15:00	9/13/2020 16:00	782.9
9/13/2020 16:00	9/13/2020 17:00	780.9
9/13/2020 17:00	9/13/2020 18:00	805.9
9/13/2020 18:00	9/13/2020 19:00	820.3
9/13/2020 19:00	9/13/2020 20:00	836.9
9/13/2020 20:00	9/13/2020 21:00	828.8
9/13/2020 21:00	9/13/2020 22:00	766.2
9/13/2020 22:00	9/13/2020 23:00	662.1
9/13/2020 23:00	9/14/2020 0:00	583.6
9/14/2020 0:00	9/14/2020 1:00	556.7
9/14/2020 1:00	9/14/2020 2:00	554.7
9/14/2020 2:00	9/14/2020 3:00	568.7
9/14/2020 3:00	9/14/2020 4:00	585.1
9/14/2020 4:00	9/14/2020 5:00	613.1
9/14/2020 5:00	9/14/2020 6:00	670.0
9/14/2020 6:00	9/14/2020 7:00	775.0
9/14/2020 7:00	9/14/2020 8:00	853.8
9/14/2020 8:00	9/14/2020 9:00	896.8
9/14/2020 9:00	9/14/2020 10:00	873.7
9/14/2020 10:00	9/14/2020 11:00	906.6
9/14/2020 11:00	9/14/2020 12:00	924.6
9/14/2020 12:00	9/14/2020 13:00	954.7
9/14/2020 13:00	9/14/2020 14:00	988.2
9/14/2020 14:00	9/14/2020 15:00	980.7
9/14/2020 15:00	9/14/2020 16:00	970.4
9/14/2020 16:00	9/14/2020 17:00	990.1
9/14/2020 17:00	9/14/2020 18:00	983.6
9/14/2020 18:00	9/14/2020 19:00	971.7
9/14/2020 19:00	9/14/2020 20:00	905.9
9/14/2020 20:00	9/14/2020 21:00	817.5
9/14/2020 21:00	9/14/2020 22:00	740.1
9/14/2020 22:00	9/14/2020 23:00	691.5
9/14/2020 23:00	9/15/2020 0:00	633.4
9/15/2020 0:00	9/15/2020 1:00	590.1
9/15/2020 1:00	9/15/2020 2:00	543.1
9/15/2020 2:00	9/15/2020 3:00	511.5
9/15/2020 3:00	9/15/2020 4:00	528.7
9/15/2020 4:00	9/15/2020 5:00	543.7
9/15/2020 5:00	9/15/2020 6:00	609.7
9/15/2020 6:00	9/15/2020 7:00	739.1
9/15/2020 7:00	9/15/2020 8:00	882.1
9/15/2020 8:00	9/15/2020 9:00	1001.7
9/15/2020 9:00	9/15/2020 10:00	1031.3
9/15/2020 10:00	9/15/2020 11:00	1052.2
9/15/2020 11:00	9/15/2020 12:00	1041.6
9/15/2020 12:00	9/15/2020 13:00	1049.8
9/15/2020 13:00	9/15/2020 14:00	956.0
9/15/2020 14:00	9/15/2020 15:00	914.9
9/15/2020 15:00	9/15/2020 16:00	919.6
9/15/2020 16:00	9/15/2020 17:00	967.9
9/15/2020 17:00	9/15/2020 18:00	978.0
9/15/2020 18:00	9/15/2020 19:00	971.9
9/15/2020 19:00	9/15/2020 20:00	956.2
9/15/2020 20:00	9/15/2020 21:00	943.6
9/15/2020 21:00	9/15/2020 22:00	869.0
9/15/2020 22:00	9/15/2020 23:00	854.9
9/15/2020 23:00	9/16/2020 0:00	816.1
9/16/2020 0:00	9/16/2020 1:00	765.1
9/16/2020 1:00	9/16/2020 2:00	766.5
9/16/2020 2:00	9/16/2020 3:00	740.5
9/16/2020 3:00	9/16/2020 4:00	739.5
9/16/2020 4:00	9/16/2020 5:00	742.0

Start Time	End Time	ANL_MW
9/16/2020 5:00	9/16/2020 6:00	782.6
9/16/2020 6:00	9/16/2020 7:00	885.9
9/16/2020 7:00	9/16/2020 8:00	967.2
9/16/2020 8:00	9/16/2020 9:00	949.6
9/16/2020 9:00	9/16/2020 10:00	925.6
9/16/2020 10:00	9/16/2020 11:00	888.9
9/16/2020 11:00	9/16/2020 12:00	822.3
9/16/2020 12:00	9/16/2020 13:00	768.5
9/16/2020 13:00	9/16/2020 14:00	740.4
9/16/2020 14:00	9/16/2020 15:00	669.0
9/16/2020 15:00	9/16/2020 16:00	631.7
9/16/2020 16:00	9/16/2020 17:00	653.7
9/16/2020 17:00	9/16/2020 18:00	694.5
9/16/2020 18:00	9/16/2020 19:00	692.2
9/16/2020 19:00	9/16/2020 20:00	673.5
9/16/2020 20:00	9/16/2020 21:00	661.0
9/16/2020 21:00	9/16/2020 22:00	577.1
9/16/2020 22:00	9/16/2020 23:00	491.0
9/16/2020 23:00	9/17/2020 0:00	479.0
9/17/2020 0:00	9/17/2020 1:00	455.7
9/17/2020 1:00	9/17/2020 2:00	459.2
9/17/2020 2:00	9/17/2020 3:00	464.3
9/17/2020 3:00	9/17/2020 4:00	457.5
9/17/2020 4:00	9/17/2020 5:00	462.4
9/17/2020 5:00	9/17/2020 6:00	474.1
9/17/2020 6:00	9/17/2020 7:00	493.7
9/17/2020 7:00	9/17/2020 8:00	572.8
9/17/2020 8:00	9/17/2020 9:00	644.1
9/17/2020 9:00	9/17/2020 10:00	658.1
9/17/2020 10:00	9/17/2020 11:00	642.9
9/17/2020 11:00	9/17/2020 12:00	636.7
9/17/2020 12:00	9/17/2020 13:00	640.9
9/17/2020 13:00	9/17/2020 14:00	641.0
9/17/2020 14:00	9/17/2020 15:00	639.2
9/17/2020 15:00	9/17/2020 16:00	687.3
9/17/2020 16:00	9/17/2020 17:00	772.5
9/17/2020 17:00	9/17/2020 18:00	866.5
9/17/2020 18:00	9/17/2020 19:00	845.8
9/17/2020 19:00	9/17/2020 20:00	906.8
9/17/2020 20:00	9/17/2020 21:00	938.2
9/17/2020 21:00	9/17/2020 22:00	910.3
9/17/2020 22:00	9/17/2020 23:00	864.5
9/17/2020 23:00	9/18/2020 0:00	837.3
9/18/2020 0:00	9/18/2020 1:00	825.3
9/18/2020 1:00	9/18/2020 2:00	780.9
9/18/2020 2:00	9/18/2020 3:00	758.8
9/18/2020 3:00	9/18/2020 4:00	758.4
9/18/2020 4:00	9/18/2020 5:00	756.1
9/18/2020 5:00	9/18/2020 6:00	773.8
9/18/2020 6:00	9/18/2020 7:00	863.6
9/18/2020 7:00	9/18/2020 8:00	973.8
9/18/2020 8:00	9/18/2020 9:00	974.2
9/18/2020 9:00	9/18/2020 10:00	1007.0
9/18/2020 10:00	9/18/2020 11:00	1032.1
9/18/2020 11:00	9/18/2020 12:00	1045.9
9/18/2020 12:00	9/18/2020 13:00	1034.7
9/18/2020 13:00	9/18/2020 14:00	1004.0
9/18/2020 14:00	9/18/2020 15:00	969.6
9/18/2020 15:00	9/18/2020 16:00	931.9
9/18/2020 16:00	9/18/2020 17:00	911.3
9/18/2020 17:00	9/18/2020 18:00	875.7
9/18/2020 18:00	9/18/2020 19:00	806.8
9/18/2020 19:00	9/18/2020 20:00	808.1
9/18/2020 20:00	9/18/2020 21:00	754.4
9/18/2020 21:00	9/18/2020 22:00	726.5
9/18/2020 22:00	9/18/2020 23:00	679.9
9/18/2020 23:00	9/19/2020 0:00	632.0
9/19/2020 0:00	9/19/2020 1:00	606.1
9/19/2020 1:00	9/19/2020 2:00	569.0
9/19/2020 2:00	9/19/2020 3:00	541.9

Start Time	End Time	ANL_MW
9/19/2020 3:00	9/19/2020 4:00	527.4
9/19/2020 4:00	9/19/2020 5:00	533.4
9/19/2020 5:00	9/19/2020 6:00	556.4
9/19/2020 6:00	9/19/2020 7:00	609.1
9/19/2020 7:00	9/19/2020 8:00	654.1
9/19/2020 8:00	9/19/2020 9:00	767.7
9/19/2020 9:00	9/19/2020 10:00	811.4
9/19/2020 10:00	9/19/2020 11:00	815.9
9/19/2020 11:00	9/19/2020 12:00	765.9
9/19/2020 12:00	9/19/2020 13:00	747.4
9/19/2020 13:00	9/19/2020 14:00	712.2
9/19/2020 14:00	9/19/2020 15:00	682.8
9/19/2020 15:00	9/19/2020 16:00	705.6
9/19/2020 16:00	9/19/2020 17:00	793.5
9/19/2020 17:00	9/19/2020 18:00	860.7
9/19/2020 18:00	9/19/2020 19:00	837.4
9/19/2020 19:00	9/19/2020 20:00	830.5
9/19/2020 20:00	9/19/2020 21:00	849.1
9/19/2020 21:00	9/19/2020 22:00	815.2
9/19/2020 22:00	9/19/2020 23:00	828.2
9/19/2020 23:00	9/20/2020 0:00	806.0
9/20/2020 0:00	9/20/2020 1:00	791.5
9/20/2020 1:00	9/20/2020 2:00	844.5
9/20/2020 2:00	9/20/2020 3:00	854.2
9/20/2020 3:00	9/20/2020 4:00	861.5
9/20/2020 4:00	9/20/2020 5:00	863.9
9/20/2020 5:00	9/20/2020 6:00	871.1
9/20/2020 6:00	9/20/2020 7:00	886.1
9/20/2020 7:00	9/20/2020 8:00	913.3
9/20/2020 8:00	9/20/2020 9:00	993.8
9/20/2020 9:00	9/20/2020 10:00	1074.8
9/20/2020 10:00	9/20/2020 11:00	1008.1
9/20/2020 11:00	9/20/2020 12:00	982.8
9/20/2020 12:00	9/20/2020 13:00	958.2
9/20/2020 13:00	9/20/2020 14:00	920.2
9/20/2020 14:00	9/20/2020 15:00	882.3
9/20/2020 15:00	9/20/2020 16:00	883.4
9/20/2020 16:00	9/20/2020 17:00	936.1
9/20/2020 17:00	9/20/2020 18:00	962.8
9/20/2020 18:00	9/20/2020 19:00	962.6
9/20/2020 19:00	9/20/2020 20:00	969.0
9/20/2020 20:00	9/20/2020 21:00	951.6
9/20/2020 21:00	9/20/2020 22:00	891.8
9/20/2020 22:00	9/20/2020 23:00	818.4
9/20/2020 23:00	9/21/2020 0:00	825.0
9/21/2020 0:00	9/21/2020 1:00	796.2
9/21/2020 1:00	9/21/2020 2:00	796.7
9/21/2020 2:00	9/21/2020 3:00	805.1
9/21/2020 3:00	9/21/2020 4:00	825.0
9/21/2020 4:00	9/21/2020 5:00	867.4
9/21/2020 5:00	9/21/2020 6:00	929.6
9/21/2020 6:00	9/21/2020 7:00	1056.2
9/21/2020 7:00	9/21/2020 8:00	1104.6
9/21/2020 8:00	9/21/2020 9:00	1136.8
9/21/2020 9:00	9/21/2020 10:00	1133.3
9/21/2020 10:00	9/21/2020 11:00	1068.9
9/21/2020 11:00	9/21/2020 12:00	1050.3
9/21/2020 12:00	9/21/2020 13:00	1030.4
9/21/2020 13:00	9/21/2020 14:00	992.7
9/21/2020 14:00	9/21/2020 15:00	1004.7
9/21/2020 15:00	9/21/2020 16:00	1002.2
9/21/2020 16:00	9/21/2020 17:00	1031.7
9/21/2020 17:00	9/21/2020 18:00	1059.4
9/21/2020 18:00	9/21/2020 19:00	1034.7
9/21/2020 19:00	9/21/2020 20:00	1045.5
9/21/2020 20:00	9/21/2020 21:00	1024.8
9/21/2020 21:00	9/21/2020 22:00	939.4
9/21/2020 22:00	9/21/2020 23:00	869.5
9/21/2020 23:00	9/22/2020 0:00	819.2
9/22/2020 0:00	9/22/2020 1:00	735.6

Start Time	End Time	ANL_MW
9/22/2020 1:00	9/22/2020 2:00	732.2
9/22/2020 2:00	9/22/2020 3:00	700.6
9/22/2020 3:00	9/22/2020 4:00	693.4
9/22/2020 4:00	9/22/2020 5:00	653.1
9/22/2020 5:00	9/22/2020 6:00	672.6
9/22/2020 6:00	9/22/2020 7:00	668.9
9/22/2020 7:00	9/22/2020 8:00	713.9
9/22/2020 8:00	9/22/2020 9:00	745.6
9/22/2020 9:00	9/22/2020 10:00	745.1
9/22/2020 10:00	9/22/2020 11:00	731.8
9/22/2020 11:00	9/22/2020 12:00	770.4
9/22/2020 12:00	9/22/2020 13:00	789.3
9/22/2020 13:00	9/22/2020 14:00	784.6
9/22/2020 14:00	9/22/2020 15:00	777.6
9/22/2020 15:00	9/22/2020 16:00	800.7
9/22/2020 16:00	9/22/2020 17:00	860.1
9/22/2020 17:00	9/22/2020 18:00	884.7
9/22/2020 18:00	9/22/2020 19:00	798.3
9/22/2020 19:00	9/22/2020 20:00	795.2
9/22/2020 20:00	9/22/2020 21:00	773.6
9/22/2020 21:00	9/22/2020 22:00	715.2
9/22/2020 22:00	9/22/2020 23:00	662.0
9/22/2020 23:00	9/23/2020 0:00	647.4
9/23/2020 0:00	9/23/2020 1:00	620.6
9/23/2020 1:00	9/23/2020 2:00	577.8
9/23/2020 2:00	9/23/2020 3:00	548.6
9/23/2020 3:00	9/23/2020 4:00	566.5
9/23/2020 4:00	9/23/2020 5:00	566.4
9/23/2020 5:00	9/23/2020 6:00	599.2
9/23/2020 6:00	9/23/2020 7:00	640.1
9/23/2020 7:00	9/23/2020 8:00	683.6
9/23/2020 8:00	9/23/2020 9:00	751.3
9/23/2020 9:00	9/23/2020 10:00	774.8
9/23/2020 10:00	9/23/2020 11:00	767.0
9/23/2020 11:00	9/23/2020 12:00	721.6
9/23/2020 12:00	9/23/2020 13:00	752.5
9/23/2020 13:00	9/23/2020 14:00	745.4
9/23/2020 14:00	9/23/2020 15:00	735.7
9/23/2020 15:00	9/23/2020 16:00	778.8
9/23/2020 16:00	9/23/2020 17:00	786.6
9/23/2020 17:00	9/23/2020 18:00	819.7
9/23/2020 18:00	9/23/2020 19:00	835.6
9/23/2020 19:00	9/23/2020 20:00	832.4
9/23/2020 20:00	9/23/2020 21:00	783.9
9/23/2020 21:00	9/23/2020 22:00	715.9
9/23/2020 22:00	9/23/2020 23:00	641.3
9/23/2020 23:00	9/24/2020 0:00	632.9
9/24/2020 0:00	9/24/2020 1:00	574.0
9/24/2020 1:00	9/24/2020 2:00	539.7
9/24/2020 2:00	9/24/2020 3:00	544.2
9/24/2020 3:00	9/24/2020 4:00	552.1
9/24/2020 4:00	9/24/2020 5:00	580.1
9/24/2020 5:00	9/24/2020 6:00	568.0
9/24/2020 6:00	9/24/2020 7:00	680.6
9/24/2020 7:00	9/24/2020 8:00	817.0
9/24/2020 8:00	9/24/2020 9:00	926.2
9/24/2020 9:00	9/24/2020 10:00	1003.7
9/24/2020 10:00	9/24/2020 11:00	1033.2
9/24/2020 11:00	9/24/2020 12:00	1040.6
9/24/2020 12:00	9/24/2020 13:00	1002.7
9/24/2020 13:00	9/24/2020 14:00	981.7
9/24/2020 14:00	9/24/2020 15:00	946.6
9/24/2020 15:00	9/24/2020 16:00	951.5
9/24/2020 16:00	9/24/2020 17:00	975.5
9/24/2020 17:00	9/24/2020 18:00	1011.2
9/24/2020 18:00	9/24/2020 19:00	989.8
9/24/2020 19:00	9/24/2020 20:00	950.1
9/24/2020 20:00	9/24/2020 21:00	877.9
9/24/2020 21:00	9/24/2020 22:00	779.8
9/24/2020 22:00	9/24/2020 23:00	691.2

Start Time	End Time	ANL_MW
9/24/2020 23:00	9/25/2020 0:00	679.4
9/25/2020 0:00	9/25/2020 1:00	636.5
9/25/2020 1:00	9/25/2020 2:00	685.6
9/25/2020 2:00	9/25/2020 3:00	741.3
9/25/2020 3:00	9/25/2020 4:00	786.2
9/25/2020 4:00	9/25/2020 5:00	833.9
9/25/2020 5:00	9/25/2020 6:00	890.3
9/25/2020 6:00	9/25/2020 7:00	931.7
9/25/2020 7:00	9/25/2020 8:00	1028.6
9/25/2020 8:00	9/25/2020 9:00	1094.7
9/25/2020 9:00	9/25/2020 10:00	1141.1
9/25/2020 10:00	9/25/2020 11:00	1099.4
9/25/2020 11:00	9/25/2020 12:00	1085.4
9/25/2020 12:00	9/25/2020 13:00	1064.5
9/25/2020 13:00	9/25/2020 14:00	1045.3
9/25/2020 14:00	9/25/2020 15:00	1046.3
9/25/2020 15:00	9/25/2020 16:00	1059.9
9/25/2020 16:00	9/25/2020 17:00	1083.8
9/25/2020 17:00	9/25/2020 18:00	1066.0
9/25/2020 18:00	9/25/2020 19:00	1026.2
9/25/2020 19:00	9/25/2020 20:00	1025.8
9/25/2020 20:00	9/25/2020 21:00	1016.5
9/25/2020 21:00	9/25/2020 22:00	995.7
9/25/2020 22:00	9/25/2020 23:00	935.3
9/25/2020 23:00	9/26/2020 0:00	910.6
9/26/2020 0:00	9/26/2020 1:00	912.4
9/26/2020 1:00	9/26/2020 2:00	885.0
9/26/2020 2:00	9/26/2020 3:00	877.6
9/26/2020 3:00	9/26/2020 4:00	880.8
9/26/2020 4:00	9/26/2020 5:00	891.7
9/26/2020 5:00	9/26/2020 6:00	909.9
9/26/2020 6:00	9/26/2020 7:00	945.9
9/26/2020 7:00	9/26/2020 8:00	990.8
9/26/2020 8:00	9/26/2020 9:00	1033.2
9/26/2020 9:00	9/26/2020 10:00	1048.0
9/26/2020 10:00	9/26/2020 11:00	1004.7
9/26/2020 11:00	9/26/2020 12:00	1013.4
9/26/2020 12:00	9/26/2020 13:00	980.8
9/26/2020 13:00	9/26/2020 14:00	919.9
9/26/2020 14:00	9/26/2020 15:00	866.2
9/26/2020 15:00	9/26/2020 16:00	845.2
9/26/2020 16:00	9/26/2020 17:00	884.5
9/26/2020 17:00	9/26/2020 18:00	920.3
9/26/2020 18:00	9/26/2020 19:00	879.2
9/26/2020 19:00	9/26/2020 20:00	827.8
9/26/2020 20:00	9/26/2020 21:00	829.2
9/26/2020 21:00	9/26/2020 22:00	819.8
9/26/2020 22:00	9/26/2020 23:00	758.3
9/26/2020 23:00	9/27/2020 0:00	701.9
9/27/2020 0:00	9/27/2020 1:00	646.0
9/27/2020 1:00	9/27/2020 2:00	596.3
9/27/2020 2:00	9/27/2020 3:00	559.5
9/27/2020 3:00	9/27/2020 4:00	567.9
9/27/2020 4:00	9/27/2020 5:00	595.8
9/27/2020 5:00	9/27/2020 6:00	625.0
9/27/2020 6:00	9/27/2020 7:00	657.4
9/27/2020 7:00	9/27/2020 8:00	725.2
9/27/2020 8:00	9/27/2020 9:00	807.6
9/27/2020 9:00	9/27/2020 10:00	883.6
9/27/2020 10:00	9/27/2020 11:00	943.3
9/27/2020 11:00	9/27/2020 12:00	996.8
9/27/2020 12:00	9/27/2020 13:00	981.1
9/27/2020 13:00	9/27/2020 14:00	927.1
9/27/2020 14:00	9/27/2020 15:00	887.3
9/27/2020 15:00	9/27/2020 16:00	885.0
9/27/2020 16:00	9/27/2020 17:00	865.1
9/27/2020 17:00	9/27/2020 18:00	903.4
9/27/2020 18:00	9/27/2020 19:00	862.5
9/27/2020 19:00	9/27/2020 20:00	847.6
9/27/2020 20:00	9/27/2020 21:00	789.8

Start Time	End Time	ANL_MW
9/27/2020 21:00	9/27/2020 22:00	754.5
9/27/2020 22:00	9/27/2020 23:00	674.3
9/27/2020 23:00	9/28/2020 0:00	603.0
9/28/2020 0:00	9/28/2020 1:00	545.7
9/28/2020 1:00	9/28/2020 2:00	534.7
9/28/2020 2:00	9/28/2020 3:00	538.1
9/28/2020 3:00	9/28/2020 4:00	552.0
9/28/2020 4:00	9/28/2020 5:00	573.8
9/28/2020 5:00	9/28/2020 6:00	673.4
9/28/2020 6:00	9/28/2020 7:00	821.8
9/28/2020 7:00	9/28/2020 8:00	951.2
9/28/2020 8:00	9/28/2020 9:00	935.4
9/28/2020 9:00	9/28/2020 10:00	952.1
9/28/2020 10:00	9/28/2020 11:00	951.0
9/28/2020 11:00	9/28/2020 12:00	936.1
9/28/2020 12:00	9/28/2020 13:00	908.2
9/28/2020 13:00	9/28/2020 14:00	854.5
9/28/2020 14:00	9/28/2020 15:00	804.8
9/28/2020 15:00	9/28/2020 16:00	799.8
9/28/2020 16:00	9/28/2020 17:00	836.4
9/28/2020 17:00	9/28/2020 18:00	878.1
9/28/2020 18:00	9/28/2020 19:00	866.9
9/28/2020 19:00	9/28/2020 20:00	850.8
9/28/2020 20:00	9/28/2020 21:00	809.9
9/28/2020 21:00	9/28/2020 22:00	741.3
9/28/2020 22:00	9/28/2020 23:00	688.2
9/28/2020 23:00	9/29/2020 0:00	610.9
9/29/2020 0:00	9/29/2020 1:00	545.1
9/29/2020 1:00	9/29/2020 2:00	521.1
9/29/2020 2:00	9/29/2020 3:00	509.9
9/29/2020 3:00	9/29/2020 4:00	468.1
9/29/2020 4:00	9/29/2020 5:00	458.8
9/29/2020 5:00	9/29/2020 6:00	497.7
9/29/2020 6:00	9/29/2020 7:00	613.4
9/29/2020 7:00	9/29/2020 8:00	719.6
9/29/2020 8:00	9/29/2020 9:00	757.4
9/29/2020 9:00	9/29/2020 10:00	810.6
9/29/2020 10:00	9/29/2020 11:00	832.3
9/29/2020 11:00	9/29/2020 12:00	788.2
9/29/2020 12:00	9/29/2020 13:00	783.6
9/29/2020 13:00	9/29/2020 14:00	784.8
9/29/2020 14:00	9/29/2020 15:00	752.9
9/29/2020 15:00	9/29/2020 16:00	769.6
9/29/2020 16:00	9/29/2020 17:00	839.7
9/29/2020 17:00	9/29/2020 18:00	886.8
9/29/2020 18:00	9/29/2020 19:00	853.7
9/29/2020 19:00	9/29/2020 20:00	872.7
9/29/2020 20:00	9/29/2020 21:00	828.3
9/29/2020 21:00	9/29/2020 22:00	800.1
9/29/2020 22:00	9/29/2020 23:00	750.4
9/29/2020 23:00	9/30/2020 0:00	682.9
9/30/2020 0:00	9/30/2020 1:00	624.9
9/30/2020 1:00	9/30/2020 2:00	646.7
9/30/2020 2:00	9/30/2020 3:00	678.4
9/30/2020 3:00	9/30/2020 4:00	664.2
9/30/2020 4:00	9/30/2020 5:00	646.9
9/30/2020 5:00	9/30/2020 6:00	643.5
9/30/2020 6:00	9/30/2020 7:00	684.7
9/30/2020 7:00	9/30/2020 8:00	740.4
9/30/2020 8:00	9/30/2020 9:00	743.5
9/30/2020 9:00	9/30/2020 10:00	748.1
9/30/2020 10:00	9/30/2020 11:00	769.4
9/30/2020 11:00	9/30/2020 12:00	781.3
9/30/2020 12:00	9/30/2020 13:00	766.7
9/30/2020 13:00	9/30/2020 14:00	774.9
9/30/2020 14:00	9/30/2020 15:00	772.3
9/30/2020 15:00	9/30/2020 16:00	760.0
9/30/2020 16:00	9/30/2020 17:00	791.6
9/30/2020 17:00	9/30/2020 18:00	808.4
9/30/2020 18:00	9/30/2020 19:00	804.3

Start Time	End Time	ANL_MW
9/30/2020 19:00	9/30/2020 20:00	798.2
9/30/2020 20:00	9/30/2020 21:00	720.8
9/30/2020 21:00	9/30/2020 22:00	673.5
9/30/2020 22:00	9/30/2020 23:00	623.3
9/30/2020 23:00	10/1/2020 0:00	636.2
10/1/2020 0:00	10/1/2020 1:00	635.3
10/1/2020 1:00	10/1/2020 2:00	601.2
10/1/2020 2:00	10/1/2020 3:00	607.9
10/1/2020 3:00	10/1/2020 4:00	643.3
10/1/2020 4:00	10/1/2020 5:00	679.2
10/1/2020 5:00	10/1/2020 6:00	740.7
10/1/2020 6:00	10/1/2020 7:00	844.0
10/1/2020 7:00	10/1/2020 8:00	952.5
10/1/2020 8:00	10/1/2020 9:00	1012.2
10/1/2020 9:00	10/1/2020 10:00	1064.4
10/1/2020 10:00	10/1/2020 11:00	1087.1
10/1/2020 11:00	10/1/2020 12:00	1065.4
10/1/2020 12:00	10/1/2020 13:00	995.7
10/1/2020 13:00	10/1/2020 14:00	912.0
10/1/2020 14:00	10/1/2020 15:00	865.1
10/1/2020 15:00	10/1/2020 16:00	854.1
10/1/2020 16:00	10/1/2020 17:00	907.8
10/1/2020 17:00	10/1/2020 18:00	942.6
10/1/2020 18:00	10/1/2020 19:00	919.2
10/1/2020 19:00	10/1/2020 20:00	899.4
10/1/2020 20:00	10/1/2020 21:00	850.2
10/1/2020 21:00	10/1/2020 22:00	868.2
10/1/2020 22:00	10/1/2020 23:00	860.1
10/1/2020 23:00	10/2/2020 0:00	822.0
10/2/2020 0:00	10/2/2020 1:00	754.2
10/2/2020 1:00	10/2/2020 2:00	763.4
10/2/2020 2:00	10/2/2020 3:00	747.6
10/2/2020 3:00	10/2/2020 4:00	754.2
10/2/2020 4:00	10/2/2020 5:00	779.1
10/2/2020 5:00	10/2/2020 6:00	828.5
10/2/2020 6:00	10/2/2020 7:00	943.9
10/2/2020 7:00	10/2/2020 8:00	1004.8
10/2/2020 8:00	10/2/2020 9:00	1045.6
10/2/2020 9:00	10/2/2020 10:00	1074.8
10/2/2020 10:00	10/2/2020 11:00	1100.8
10/2/2020 11:00	10/2/2020 12:00	1111.1
10/2/2020 12:00	10/2/2020 13:00	1115.7
10/2/2020 13:00	10/2/2020 14:00	1119.4
10/2/2020 14:00	10/2/2020 15:00	1121.5
10/2/2020 15:00	10/2/2020 16:00	1127.1
10/2/2020 16:00	10/2/2020 17:00	1150.1
10/2/2020 17:00	10/2/2020 18:00	1147.6
10/2/2020 18:00	10/2/2020 19:00	1107.3
10/2/2020 19:00	10/2/2020 20:00	1099.7
10/2/2020 20:00	10/2/2020 21:00	1095.1
10/2/2020 21:00	10/2/2020 22:00	1032.9
10/2/2020 22:00	10/2/2020 23:00	951.3
10/2/2020 23:00	10/3/2020 0:00	903.7
10/3/2020 0:00	10/3/2020 1:00	830.8
10/3/2020 1:00	10/3/2020 2:00	790.8
10/3/2020 2:00	10/3/2020 3:00	749.5
10/3/2020 3:00	10/3/2020 4:00	706.8
10/3/2020 4:00	10/3/2020 5:00	678.8
10/3/2020 5:00	10/3/2020 6:00	681.0
10/3/2020 6:00	10/3/2020 7:00	730.3
10/3/2020 7:00	10/3/2020 8:00	806.1
10/3/2020 8:00	10/3/2020 9:00	892.6
10/3/2020 9:00	10/3/2020 10:00	995.6
10/3/2020 10:00	10/3/2020 11:00	994.4
10/3/2020 11:00	10/3/2020 12:00	1019.0
10/3/2020 12:00	10/3/2020 13:00	1023.7
10/3/2020 13:00	10/3/2020 14:00	1008.5
10/3/2020 14:00	10/3/2020 15:00	992.3
10/3/2020 15:00	10/3/2020 16:00	996.8
10/3/2020 16:00	10/3/2020 17:00	1032.0

Start Time	End Time	ANL_MW
10/3/2020 17:00	10/3/2020 18:00	1067.5
10/3/2020 18:00	10/3/2020 19:00	1057.4
10/3/2020 19:00	10/3/2020 20:00	1066.1
10/3/2020 20:00	10/3/2020 21:00	1020.4
10/3/2020 21:00	10/3/2020 22:00	947.4
10/3/2020 22:00	10/3/2020 23:00	861.0
10/3/2020 23:00	10/4/2020 0:00	800.0
10/4/2020 0:00	10/4/2020 1:00	787.2
10/4/2020 1:00	10/4/2020 2:00	760.9
10/4/2020 2:00	10/4/2020 3:00	738.9
10/4/2020 3:00	10/4/2020 4:00	750.8
10/4/2020 4:00	10/4/2020 5:00	779.1
10/4/2020 5:00	10/4/2020 6:00	811.6
10/4/2020 6:00	10/4/2020 7:00	876.7
10/4/2020 7:00	10/4/2020 8:00	949.5
10/4/2020 8:00	10/4/2020 9:00	1053.3
10/4/2020 9:00	10/4/2020 10:00	1064.6
10/4/2020 10:00	10/4/2020 11:00	1086.0
10/4/2020 11:00	10/4/2020 12:00	1094.4
10/4/2020 12:00	10/4/2020 13:00	1087.5
10/4/2020 13:00	10/4/2020 14:00	1056.0
10/4/2020 14:00	10/4/2020 15:00	1028.0
10/4/2020 15:00	10/4/2020 16:00	1031.5
10/4/2020 16:00	10/4/2020 17:00	1082.4
10/4/2020 17:00	10/4/2020 18:00	1080.6
10/4/2020 18:00	10/4/2020 19:00	1077.2
10/4/2020 19:00	10/4/2020 20:00	1119.8
10/4/2020 20:00	10/4/2020 21:00	1082.1
10/4/2020 21:00	10/4/2020 22:00	995.0
10/4/2020 22:00	10/4/2020 23:00	958.7
10/4/2020 23:00	10/5/2020 0:00	877.3
10/5/2020 0:00	10/5/2020 1:00	819.3
10/5/2020 1:00	10/5/2020 2:00	785.4
10/5/2020 2:00	10/5/2020 3:00	778.6
10/5/2020 3:00	10/5/2020 4:00	774.7
10/5/2020 4:00	10/5/2020 5:00	795.9
10/5/2020 5:00	10/5/2020 6:00	845.1
10/5/2020 6:00	10/5/2020 7:00	959.5
10/5/2020 7:00	10/5/2020 8:00	1092.2
10/5/2020 8:00	10/5/2020 9:00	1101.9
10/5/2020 9:00	10/5/2020 10:00	1119.7
10/5/2020 10:00	10/5/2020 11:00	1193.9
10/5/2020 11:00	10/5/2020 12:00	1210.2
10/5/2020 12:00	10/5/2020 13:00	1206.7
10/5/2020 13:00	10/5/2020 14:00	1192.5
10/5/2020 14:00	10/5/2020 15:00	1178.4
10/5/2020 15:00	10/5/2020 16:00	1114.3
10/5/2020 16:00	10/5/2020 17:00	1114.9
10/5/2020 17:00	10/5/2020 18:00	1136.2
10/5/2020 18:00	10/5/2020 19:00	1098.6
10/5/2020 19:00	10/5/2020 20:00	1096.6
10/5/2020 20:00	10/5/2020 21:00	1073.1
10/5/2020 21:00	10/5/2020 22:00	1001.9
10/5/2020 22:00	10/5/2020 23:00	933.4
10/5/2020 23:00	10/6/2020 0:00	851.5
10/6/2020 0:00	10/6/2020 1:00	860.2
10/6/2020 1:00	10/6/2020 2:00	824.3
10/6/2020 2:00	10/6/2020 3:00	803.8
10/6/2020 3:00	10/6/2020 4:00	807.7
10/6/2020 4:00	10/6/2020 5:00	827.8
10/6/2020 5:00	10/6/2020 6:00	877.8
10/6/2020 6:00	10/6/2020 7:00	1000.1
10/6/2020 7:00	10/6/2020 8:00	1117.7
10/6/2020 8:00	10/6/2020 9:00	1079.6
10/6/2020 9:00	10/6/2020 10:00	1060.8
10/6/2020 10:00	10/6/2020 11:00	1016.6
10/6/2020 11:00	10/6/2020 12:00	1044.2
10/6/2020 12:00	10/6/2020 13:00	1033.9
10/6/2020 13:00	10/6/2020 14:00	981.9
10/6/2020 14:00	10/6/2020 15:00	920.8

Start Time	End Time	ANL_MW
10/6/2020 15:00	10/6/2020 16:00	877.5
10/6/2020 16:00	10/6/2020 17:00	897.0
10/6/2020 17:00	10/6/2020 18:00	931.3
10/6/2020 18:00	10/6/2020 19:00	990.0
10/6/2020 19:00	10/6/2020 20:00	987.5
10/6/2020 20:00	10/6/2020 21:00	958.0
10/6/2020 21:00	10/6/2020 22:00	941.2
10/6/2020 22:00	10/6/2020 23:00	867.6
10/6/2020 23:00	10/7/2020 0:00	817.5
10/7/2020 0:00	10/7/2020 1:00	749.3
10/7/2020 1:00	10/7/2020 2:00	749.8
10/7/2020 2:00	10/7/2020 3:00	759.0
10/7/2020 3:00	10/7/2020 4:00	812.6
10/7/2020 4:00	10/7/2020 5:00	827.2
10/7/2020 5:00	10/7/2020 6:00	788.7
10/7/2020 6:00	10/7/2020 7:00	902.9
10/7/2020 7:00	10/7/2020 8:00	969.6
10/7/2020 8:00	10/7/2020 9:00	1002.2
10/7/2020 9:00	10/7/2020 10:00	1020.0
10/7/2020 10:00	10/7/2020 11:00	1044.3
10/7/2020 11:00	10/7/2020 12:00	1044.8
10/7/2020 12:00	10/7/2020 13:00	1018.4
10/7/2020 13:00	10/7/2020 14:00	994.5
10/7/2020 14:00	10/7/2020 15:00	899.7
10/7/2020 15:00	10/7/2020 16:00	830.6
10/7/2020 16:00	10/7/2020 17:00	860.7
10/7/2020 17:00	10/7/2020 18:00	937.7
10/7/2020 18:00	10/7/2020 19:00	942.6
10/7/2020 19:00	10/7/2020 20:00	884.1
10/7/2020 20:00	10/7/2020 21:00	830.8
10/7/2020 21:00	10/7/2020 22:00	764.3
10/7/2020 22:00	10/7/2020 23:00	633.6
10/7/2020 23:00	10/8/2020 0:00	572.7
10/8/2020 0:00	10/8/2020 1:00	535.4
10/8/2020 1:00	10/8/2020 2:00	524.1
10/8/2020 2:00	10/8/2020 3:00	523.2
10/8/2020 3:00	10/8/2020 4:00	525.3
10/8/2020 4:00	10/8/2020 5:00	522.3
10/8/2020 5:00	10/8/2020 6:00	559.2
10/8/2020 6:00	10/8/2020 7:00	641.6
10/8/2020 7:00	10/8/2020 8:00	735.0
10/8/2020 8:00	10/8/2020 9:00	769.1
10/8/2020 9:00	10/8/2020 10:00	783.7
10/8/2020 10:00	10/8/2020 11:00	788.9
10/8/2020 11:00	10/8/2020 12:00	783.6
10/8/2020 12:00	10/8/2020 13:00	765.0
10/8/2020 13:00	10/8/2020 14:00	757.3
10/8/2020 14:00	10/8/2020 15:00	742.3
10/8/2020 15:00	10/8/2020 16:00	720.3
10/8/2020 16:00	10/8/2020 17:00	743.0
10/8/2020 17:00	10/8/2020 18:00	770.3
10/8/2020 18:00	10/8/2020 19:00	758.8
10/8/2020 19:00	10/8/2020 20:00	772.8
10/8/2020 20:00	10/8/2020 21:00	748.0
10/8/2020 21:00	10/8/2020 22:00	712.4
10/8/2020 22:00	10/8/2020 23:00	603.3
10/8/2020 23:00	10/9/2020 0:00	543.6
10/9/2020 0:00	10/9/2020 1:00	504.5
10/9/2020 1:00	10/9/2020 2:00	481.8
10/9/2020 2:00	10/9/2020 3:00	481.4
10/9/2020 3:00	10/9/2020 4:00	465.4
10/9/2020 4:00	10/9/2020 5:00	472.9
10/9/2020 5:00	10/9/2020 6:00	497.9
10/9/2020 6:00	10/9/2020 7:00	555.0
10/9/2020 7:00	10/9/2020 8:00	666.4
10/9/2020 8:00	10/9/2020 9:00	737.1
10/9/2020 9:00	10/9/2020 10:00	776.6
10/9/2020 10:00	10/9/2020 11:00	789.6
10/9/2020 11:00	10/9/2020 12:00	758.9
10/9/2020 12:00	10/9/2020 13:00	729.8

Start Time	End Time	ANL_MW
10/9/2020 13:00	10/9/2020 14:00	683.9
10/9/2020 14:00	10/9/2020 15:00	652.4
10/9/2020 15:00	10/9/2020 16:00	652.8
10/9/2020 16:00	10/9/2020 17:00	732.7
10/9/2020 17:00	10/9/2020 18:00	774.6
10/9/2020 18:00	10/9/2020 19:00	841.6
10/9/2020 19:00	10/9/2020 20:00	880.0
10/9/2020 20:00	10/9/2020 21:00	878.9
10/9/2020 21:00	10/9/2020 22:00	796.1
10/9/2020 22:00	10/9/2020 23:00	717.4
10/9/2020 23:00	10/10/2020 0:00	719.0
10/10/2020 0:00	10/10/2020 1:00	704.3
10/10/2020 1:00	10/10/2020 2:00	656.0
10/10/2020 2:00	10/10/2020 3:00	642.1
10/10/2020 3:00	10/10/2020 4:00	617.4
10/10/2020 4:00	10/10/2020 5:00	648.3
10/10/2020 5:00	10/10/2020 6:00	678.7
10/10/2020 6:00	10/10/2020 7:00	628.1
10/10/2020 7:00	10/10/2020 8:00	625.3
10/10/2020 8:00	10/10/2020 9:00	660.2
10/10/2020 9:00	10/10/2020 10:00	675.2
10/10/2020 10:00	10/10/2020 11:00	640.1
10/10/2020 11:00	10/10/2020 12:00	625.7
10/10/2020 12:00	10/10/2020 13:00	630.8
10/10/2020 13:00	10/10/2020 14:00	664.2
10/10/2020 14:00	10/10/2020 15:00	655.4
10/10/2020 15:00	10/10/2020 16:00	589.5
10/10/2020 16:00	10/10/2020 17:00	614.7
10/10/2020 17:00	10/10/2020 18:00	634.1
10/10/2020 18:00	10/10/2020 19:00	581.6
10/10/2020 19:00	10/10/2020 20:00	630.1
10/10/2020 20:00	10/10/2020 21:00	622.0
10/10/2020 21:00	10/10/2020 22:00	572.1
10/10/2020 22:00	10/10/2020 23:00	517.3
10/10/2020 23:00	10/11/2020 0:00	431.4
10/11/2020 0:00	10/11/2020 1:00	435.0
10/11/2020 1:00	10/11/2020 2:00	398.9
10/11/2020 2:00	10/11/2020 3:00	408.5
10/11/2020 3:00	10/11/2020 4:00	418.2
10/11/2020 4:00	10/11/2020 5:00	442.2
10/11/2020 5:00	10/11/2020 6:00	479.4
10/11/2020 6:00	10/11/2020 7:00	466.3
10/11/2020 7:00	10/11/2020 8:00	509.7
10/11/2020 8:00	10/11/2020 9:00	606.9
10/11/2020 9:00	10/11/2020 10:00	673.6
10/11/2020 10:00	10/11/2020 11:00	725.7
10/11/2020 11:00	10/11/2020 12:00	768.6
10/11/2020 12:00	10/11/2020 13:00	816.2
10/11/2020 13:00	10/11/2020 14:00	790.9
10/11/2020 14:00	10/11/2020 15:00	784.5
10/11/2020 15:00	10/11/2020 16:00	813.3
10/11/2020 16:00	10/11/2020 17:00	860.6
10/11/2020 17:00	10/11/2020 18:00	864.2
10/11/2020 18:00	10/11/2020 19:00	893.5
10/11/2020 19:00	10/11/2020 20:00	956.2
10/11/2020 20:00	10/11/2020 21:00	924.6
10/11/2020 21:00	10/11/2020 22:00	881.0
10/11/2020 22:00	10/11/2020 23:00	783.2
10/11/2020 23:00	10/12/2020 0:00	716.0
10/12/2020 0:00	10/12/2020 1:00	716.2
10/12/2020 1:00	10/12/2020 2:00	780.8
10/12/2020 2:00	10/12/2020 3:00	778.7
10/12/2020 3:00	10/12/2020 4:00	799.4
10/12/2020 4:00	10/12/2020 5:00	785.9
10/12/2020 5:00	10/12/2020 6:00	849.3
10/12/2020 6:00	10/12/2020 7:00	932.6
10/12/2020 7:00	10/12/2020 8:00	982.3
10/12/2020 8:00	10/12/2020 9:00	1070.3
10/12/2020 9:00	10/12/2020 10:00	1143.4
10/12/2020 10:00	10/12/2020 11:00	1142.0

Start Time	End Time	ANL_MW
10/12/2020 11:00	10/12/2020 12:00	1135.1
10/12/2020 12:00	10/12/2020 13:00	1112.5
10/12/2020 13:00	10/12/2020 14:00	1069.8
10/12/2020 14:00	10/12/2020 15:00	1039.6
10/12/2020 15:00	10/12/2020 16:00	1038.5
10/12/2020 16:00	10/12/2020 17:00	1063.8
10/12/2020 17:00	10/12/2020 18:00	1074.7
10/12/2020 18:00	10/12/2020 19:00	1103.9
10/12/2020 19:00	10/12/2020 20:00	1150.9
10/12/2020 20:00	10/12/2020 21:00	1123.2
10/12/2020 21:00	10/12/2020 22:00	1051.2
10/12/2020 22:00	10/12/2020 23:00	972.0
10/12/2020 23:00	10/13/2020 0:00	906.2
10/13/2020 0:00	10/13/2020 1:00	871.6
10/13/2020 1:00	10/13/2020 2:00	852.6
10/13/2020 2:00	10/13/2020 3:00	843.4
10/13/2020 3:00	10/13/2020 4:00	823.6
10/13/2020 4:00	10/13/2020 5:00	808.6
10/13/2020 5:00	10/13/2020 6:00	831.0
10/13/2020 6:00	10/13/2020 7:00	936.4
10/13/2020 7:00	10/13/2020 8:00	1049.9
10/13/2020 8:00	10/13/2020 9:00	1063.3
10/13/2020 9:00	10/13/2020 10:00	1078.0
10/13/2020 10:00	10/13/2020 11:00	1026.6
10/13/2020 11:00	10/13/2020 12:00	950.2
10/13/2020 12:00	10/13/2020 13:00	917.2
10/13/2020 13:00	10/13/2020 14:00	868.0
10/13/2020 14:00	10/13/2020 15:00	859.7
10/13/2020 15:00	10/13/2020 16:00	879.0
10/13/2020 16:00	10/13/2020 17:00	926.4
10/13/2020 17:00	10/13/2020 18:00	968.5
10/13/2020 18:00	10/13/2020 19:00	941.9
10/13/2020 19:00	10/13/2020 20:00	880.2
10/13/2020 20:00	10/13/2020 21:00	790.7
10/13/2020 21:00	10/13/2020 22:00	696.8
10/13/2020 22:00	10/13/2020 23:00	673.4
10/13/2020 23:00	10/14/2020 0:00	623.0
10/14/2020 0:00	10/14/2020 1:00	564.1
10/14/2020 1:00	10/14/2020 2:00	514.8
10/14/2020 2:00	10/14/2020 3:00	473.8
10/14/2020 3:00	10/14/2020 4:00	451.0
10/14/2020 4:00	10/14/2020 5:00	449.0
10/14/2020 5:00	10/14/2020 6:00	458.6
10/14/2020 6:00	10/14/2020 7:00	559.6
10/14/2020 7:00	10/14/2020 8:00	678.3
10/14/2020 8:00	10/14/2020 9:00	720.7
10/14/2020 9:00	10/14/2020 10:00	762.0
10/14/2020 10:00	10/14/2020 11:00	783.3
10/14/2020 11:00	10/14/2020 12:00	824.0
10/14/2020 12:00	10/14/2020 13:00	852.2
10/14/2020 13:00	10/14/2020 14:00	868.1
10/14/2020 14:00	10/14/2020 15:00	811.8
10/14/2020 15:00	10/14/2020 16:00	836.6
10/14/2020 16:00	10/14/2020 17:00	836.7
10/14/2020 17:00	10/14/2020 18:00	859.8
10/14/2020 18:00	10/14/2020 19:00	872.4
10/14/2020 19:00	10/14/2020 20:00	890.1
10/14/2020 20:00	10/14/2020 21:00	886.1
10/14/2020 21:00	10/14/2020 22:00	831.4
10/14/2020 22:00	10/14/2020 23:00	757.8
10/14/2020 23:00	10/15/2020 0:00	685.6
10/15/2020 0:00	10/15/2020 1:00	680.6
10/15/2020 1:00	10/15/2020 2:00	659.8
10/15/2020 2:00	10/15/2020 3:00	652.1
10/15/2020 3:00	10/15/2020 4:00	685.7
10/15/2020 4:00	10/15/2020 5:00	757.6
10/15/2020 5:00	10/15/2020 6:00	824.8
10/15/2020 6:00	10/15/2020 7:00	922.6
10/15/2020 7:00	10/15/2020 8:00	1112.4
10/15/2020 8:00	10/15/2020 9:00	1147.4

Start Time	End Time	ANL_MW
10/15/2020 9:00	10/15/2020 10:00	1126.4
10/15/2020 10:00	10/15/2020 11:00	1108.0
10/15/2020 11:00	10/15/2020 12:00	1082.5
10/15/2020 12:00	10/15/2020 13:00	1047.9
10/15/2020 13:00	10/15/2020 14:00	1004.7
10/15/2020 14:00	10/15/2020 15:00	954.2
10/15/2020 15:00	10/15/2020 16:00	937.4
10/15/2020 16:00	10/15/2020 17:00	969.1
10/15/2020 17:00	10/15/2020 18:00	1013.8
10/15/2020 18:00	10/15/2020 19:00	980.1
10/15/2020 19:00	10/15/2020 20:00	909.5
10/15/2020 20:00	10/15/2020 21:00	820.0
10/15/2020 21:00	10/15/2020 22:00	764.0
10/15/2020 22:00	10/15/2020 23:00	693.2
10/15/2020 23:00	10/16/2020 0:00	633.0
10/16/2020 0:00	10/16/2020 1:00	579.1
10/16/2020 1:00	10/16/2020 2:00	536.7
10/16/2020 2:00	10/16/2020 3:00	564.1
10/16/2020 3:00	10/16/2020 4:00	565.0
10/16/2020 4:00	10/16/2020 5:00	572.6
10/16/2020 5:00	10/16/2020 6:00	643.5
10/16/2020 6:00	10/16/2020 7:00	682.6
10/16/2020 7:00	10/16/2020 8:00	778.7
10/16/2020 8:00	10/16/2020 9:00	813.5
10/16/2020 9:00	10/16/2020 10:00	865.7
10/16/2020 10:00	10/16/2020 11:00	915.4
10/16/2020 11:00	10/16/2020 12:00	909.8
10/16/2020 12:00	10/16/2020 13:00	885.8
10/16/2020 13:00	10/16/2020 14:00	852.2
10/16/2020 14:00	10/16/2020 15:00	803.5
10/16/2020 15:00	10/16/2020 16:00	760.2
10/16/2020 16:00	10/16/2020 17:00	792.4
10/16/2020 17:00	10/16/2020 18:00	877.0
10/16/2020 18:00	10/16/2020 19:00	862.4
10/16/2020 19:00	10/16/2020 20:00	836.7
10/16/2020 20:00	10/16/2020 21:00	785.4
10/16/2020 21:00	10/16/2020 22:00	739.4
10/16/2020 22:00	10/16/2020 23:00	681.9
10/16/2020 23:00	10/17/2020 0:00	632.4
10/17/2020 0:00	10/17/2020 1:00	615.7
10/17/2020 1:00	10/17/2020 2:00	609.2
10/17/2020 2:00	10/17/2020 3:00	634.0
10/17/2020 3:00	10/17/2020 4:00	655.4
10/17/2020 4:00	10/17/2020 5:00	680.4
10/17/2020 5:00	10/17/2020 6:00	664.5
10/17/2020 6:00	10/17/2020 7:00	706.4
10/17/2020 7:00	10/17/2020 8:00	754.8
10/17/2020 8:00	10/17/2020 9:00	817.8
10/17/2020 9:00	10/17/2020 10:00	782.7
10/17/2020 10:00	10/17/2020 11:00	783.5
10/17/2020 11:00	10/17/2020 12:00	804.4
10/17/2020 12:00	10/17/2020 13:00	787.9
10/17/2020 13:00	10/17/2020 14:00	744.5
10/17/2020 14:00	10/17/2020 15:00	702.4
10/17/2020 15:00	10/17/2020 16:00	697.1
10/17/2020 16:00	10/17/2020 17:00	754.3
10/17/2020 17:00	10/17/2020 18:00	749.0
10/17/2020 18:00	10/17/2020 19:00	713.2
10/17/2020 19:00	10/17/2020 20:00	680.5
10/17/2020 20:00	10/17/2020 21:00	629.7
10/17/2020 21:00	10/17/2020 22:00	586.6
10/17/2020 22:00	10/17/2020 23:00	578.2
10/17/2020 23:00	10/18/2020 0:00	603.0
10/18/2020 0:00	10/18/2020 1:00	670.0
10/18/2020 1:00	10/18/2020 2:00	719.6
10/18/2020 2:00	10/18/2020 3:00	690.6
10/18/2020 3:00	10/18/2020 4:00	604.9
10/18/2020 4:00	10/18/2020 5:00	606.2
10/18/2020 5:00	10/18/2020 6:00	662.3
10/18/2020 6:00	10/18/2020 7:00	702.3

Start Time	End Time	ANL_MW
10/18/2020 7:00	10/18/2020 8:00	771.7
10/18/2020 8:00	10/18/2020 9:00	899.9
10/18/2020 9:00	10/18/2020 10:00	965.9
10/18/2020 10:00	10/18/2020 11:00	1051.1
10/18/2020 11:00	10/18/2020 12:00	1092.7
10/18/2020 12:00	10/18/2020 13:00	1047.8
10/18/2020 13:00	10/18/2020 14:00	1002.8
10/18/2020 14:00	10/18/2020 15:00	958.9
10/18/2020 15:00	10/18/2020 16:00	964.9
10/18/2020 16:00	10/18/2020 17:00	1022.3
10/18/2020 17:00	10/18/2020 18:00	1076.4
10/18/2020 18:00	10/18/2020 19:00	1109.5
10/18/2020 19:00	10/18/2020 20:00	1135.6
10/18/2020 20:00	10/18/2020 21:00	1095.2
10/18/2020 21:00	10/18/2020 22:00	1019.1
10/18/2020 22:00	10/18/2020 23:00	915.2
10/18/2020 23:00	10/19/2020 0:00	866.3
10/19/2020 0:00	10/19/2020 1:00	828.3
10/19/2020 1:00	10/19/2020 2:00	805.1
10/19/2020 2:00	10/19/2020 3:00	769.4
10/19/2020 3:00	10/19/2020 4:00	770.3
10/19/2020 4:00	10/19/2020 5:00	781.2
10/19/2020 5:00	10/19/2020 6:00	817.0
10/19/2020 6:00	10/19/2020 7:00	1024.2
10/19/2020 7:00	10/19/2020 8:00	1124.9
10/19/2020 8:00	10/19/2020 9:00	1143.6
10/19/2020 9:00	10/19/2020 10:00	1182.0
10/19/2020 10:00	10/19/2020 11:00	1196.4
10/19/2020 11:00	10/19/2020 12:00	1185.0
10/19/2020 12:00	10/19/2020 13:00	1164.3
10/19/2020 13:00	10/19/2020 14:00	1146.9
10/19/2020 14:00	10/19/2020 15:00	1128.5
10/19/2020 15:00	10/19/2020 16:00	1129.9
10/19/2020 16:00	10/19/2020 17:00	1164.8
10/19/2020 17:00	10/19/2020 18:00	1195.8
10/19/2020 18:00	10/19/2020 19:00	1180.9
10/19/2020 19:00	10/19/2020 20:00	1134.6
10/19/2020 20:00	10/19/2020 21:00	1052.2
10/19/2020 21:00	10/19/2020 22:00	979.7
10/19/2020 22:00	10/19/2020 23:00	873.3
10/19/2020 23:00	10/20/2020 0:00	775.5
10/20/2020 0:00	10/20/2020 1:00	751.2
10/20/2020 1:00	10/20/2020 2:00	708.5
10/20/2020 2:00	10/20/2020 3:00	673.4
10/20/2020 3:00	10/20/2020 4:00	694.4
10/20/2020 4:00	10/20/2020 5:00	736.4
10/20/2020 5:00	10/20/2020 6:00	774.3
10/20/2020 6:00	10/20/2020 7:00	897.9
10/20/2020 7:00	10/20/2020 8:00	1015.8
10/20/2020 8:00	10/20/2020 9:00	993.7
10/20/2020 9:00	10/20/2020 10:00	938.8
10/20/2020 10:00	10/20/2020 11:00	921.6
10/20/2020 11:00	10/20/2020 12:00	881.8
10/20/2020 12:00	10/20/2020 13:00	874.4
10/20/2020 13:00	10/20/2020 14:00	872.8
10/20/2020 14:00	10/20/2020 15:00	881.2
10/20/2020 15:00	10/20/2020 16:00	906.6
10/20/2020 16:00	10/20/2020 17:00	976.0
10/20/2020 17:00	10/20/2020 18:00	1025.5
10/20/2020 18:00	10/20/2020 19:00	1007.2
10/20/2020 19:00	10/20/2020 20:00	978.3
10/20/2020 20:00	10/20/2020 21:00	918.6
10/20/2020 21:00	10/20/2020 22:00	868.9
10/20/2020 22:00	10/20/2020 23:00	819.1
10/20/2020 23:00	10/21/2020 0:00	780.1
10/21/2020 0:00	10/21/2020 1:00	805.5
10/21/2020 1:00	10/21/2020 2:00	804.2
10/21/2020 2:00	10/21/2020 3:00	786.5
10/21/2020 3:00	10/21/2020 4:00	775.5
10/21/2020 4:00	10/21/2020 5:00	787.2

Start Time	End Time	ANL_MW
10/21/2020 5:00	10/21/2020 6:00	808.4
10/21/2020 6:00	10/21/2020 7:00	874.4
10/21/2020 7:00	10/21/2020 8:00	936.8
10/21/2020 8:00	10/21/2020 9:00	982.6
10/21/2020 9:00	10/21/2020 10:00	1007.3
10/21/2020 10:00	10/21/2020 11:00	1034.6
10/21/2020 11:00	10/21/2020 12:00	1046.3
10/21/2020 12:00	10/21/2020 13:00	1048.0
10/21/2020 13:00	10/21/2020 14:00	1042.3
10/21/2020 14:00	10/21/2020 15:00	1017.7
10/21/2020 15:00	10/21/2020 16:00	983.7
10/21/2020 16:00	10/21/2020 17:00	977.7
10/21/2020 17:00	10/21/2020 18:00	952.0
10/21/2020 18:00	10/21/2020 19:00	977.0
10/21/2020 19:00	10/21/2020 20:00	889.3
10/21/2020 20:00	10/21/2020 21:00	805.8
10/21/2020 21:00	10/21/2020 22:00	746.0
10/21/2020 22:00	10/21/2020 23:00	648.5
10/21/2020 23:00	10/22/2020 0:00	600.8
10/22/2020 0:00	10/22/2020 1:00	520.0
10/22/2020 1:00	10/22/2020 2:00	482.0
10/22/2020 2:00	10/22/2020 3:00	475.0
10/22/2020 3:00	10/22/2020 4:00	480.0
10/22/2020 4:00	10/22/2020 5:00	511.5
10/22/2020 5:00	10/22/2020 6:00	640.6
10/22/2020 6:00	10/22/2020 7:00	803.8
10/22/2020 7:00	10/22/2020 8:00	931.7
10/22/2020 8:00	10/22/2020 9:00	956.1
10/22/2020 9:00	10/22/2020 10:00	986.3
10/22/2020 10:00	10/22/2020 11:00	1042.5
10/22/2020 11:00	10/22/2020 12:00	1037.8
10/22/2020 12:00	10/22/2020 13:00	1033.6
10/22/2020 13:00	10/22/2020 14:00	1064.9
10/22/2020 14:00	10/22/2020 15:00	1072.6
10/22/2020 15:00	10/22/2020 16:00	1079.3
10/22/2020 16:00	10/22/2020 17:00	1078.9
10/22/2020 17:00	10/22/2020 18:00	1072.8
10/22/2020 18:00	10/22/2020 19:00	1126.2
10/22/2020 19:00	10/22/2020 20:00	1153.4
10/22/2020 20:00	10/22/2020 21:00	1091.9
10/22/2020 21:00	10/22/2020 22:00	1083.0
10/22/2020 22:00	10/22/2020 23:00	951.7
10/22/2020 23:00	10/23/2020 0:00	881.6
10/23/2020 0:00	10/23/2020 1:00	842.9
10/23/2020 1:00	10/23/2020 2:00	783.6
10/23/2020 2:00	10/23/2020 3:00	754.1
10/23/2020 3:00	10/23/2020 4:00	778.9
10/23/2020 4:00	10/23/2020 5:00	795.6
10/23/2020 5:00	10/23/2020 6:00	849.1
10/23/2020 6:00	10/23/2020 7:00	950.6
10/23/2020 7:00	10/23/2020 8:00	1015.1
10/23/2020 8:00	10/23/2020 9:00	1058.9
10/23/2020 9:00	10/23/2020 10:00	1102.3
10/23/2020 10:00	10/23/2020 11:00	1100.0
10/23/2020 11:00	10/23/2020 12:00	1118.9
10/23/2020 12:00	10/23/2020 13:00	1114.2
10/23/2020 13:00	10/23/2020 14:00	1094.2
10/23/2020 14:00	10/23/2020 15:00	1069.0
10/23/2020 15:00	10/23/2020 16:00	1055.7
10/23/2020 16:00	10/23/2020 17:00	1076.4
10/23/2020 17:00	10/23/2020 18:00	1102.6
10/23/2020 18:00	10/23/2020 19:00	1076.0
10/23/2020 19:00	10/23/2020 20:00	1060.6
10/23/2020 20:00	10/23/2020 21:00	975.3
10/23/2020 21:00	10/23/2020 22:00	881.0
10/23/2020 22:00	10/23/2020 23:00	782.5
10/23/2020 23:00	10/24/2020 0:00	749.8
10/24/2020 0:00	10/24/2020 1:00	740.6
10/24/2020 1:00	10/24/2020 2:00	732.3
10/24/2020 2:00	10/24/2020 3:00	734.9

Start Time	End Time	ANL_MW
10/24/2020 3:00	10/24/2020 4:00	747.7
10/24/2020 4:00	10/24/2020 5:00	739.6
10/24/2020 5:00	10/24/2020 6:00	790.0
10/24/2020 6:00	10/24/2020 7:00	809.6
10/24/2020 7:00	10/24/2020 8:00	858.7
10/24/2020 8:00	10/24/2020 9:00	929.7
10/24/2020 9:00	10/24/2020 10:00	1016.7
10/24/2020 10:00	10/24/2020 11:00	1086.1
10/24/2020 11:00	10/24/2020 12:00	1010.1
10/24/2020 12:00	10/24/2020 13:00	1035.7
10/24/2020 13:00	10/24/2020 14:00	1056.3
10/24/2020 14:00	10/24/2020 15:00	1067.3
10/24/2020 15:00	10/24/2020 16:00	1078.4
10/24/2020 16:00	10/24/2020 17:00	1125.4
10/24/2020 17:00	10/24/2020 18:00	1137.5
10/24/2020 18:00	10/24/2020 19:00	1134.8
10/24/2020 19:00	10/24/2020 20:00	1100.5
10/24/2020 20:00	10/24/2020 21:00	1015.4
10/24/2020 21:00	10/24/2020 22:00	936.0
10/24/2020 22:00	10/24/2020 23:00	851.2
10/24/2020 23:00	10/25/2020 0:00	715.1
10/25/2020 0:00	10/25/2020 1:00	611.5
10/25/2020 1:00	10/25/2020 2:00	550.7
10/25/2020 2:00	10/25/2020 3:00	540.1
10/25/2020 3:00	10/25/2020 4:00	544.0
10/25/2020 4:00	10/25/2020 5:00	531.4
10/25/2020 5:00	10/25/2020 6:00	567.4
10/25/2020 6:00	10/25/2020 7:00	566.2
10/25/2020 7:00	10/25/2020 8:00	650.9
10/25/2020 8:00	10/25/2020 9:00	760.5
10/25/2020 9:00	10/25/2020 10:00	818.5
10/25/2020 10:00	10/25/2020 11:00	889.6
10/25/2020 11:00	10/25/2020 12:00	917.3
10/25/2020 12:00	10/25/2020 13:00	979.8
10/25/2020 13:00	10/25/2020 14:00	938.0
10/25/2020 14:00	10/25/2020 15:00	914.8
10/25/2020 15:00	10/25/2020 16:00	918.0
10/25/2020 16:00	10/25/2020 17:00	940.3
10/25/2020 17:00	10/25/2020 18:00	1015.1
10/25/2020 18:00	10/25/2020 19:00	1063.1
10/25/2020 19:00	10/25/2020 20:00	1062.9
10/25/2020 20:00	10/25/2020 21:00	1010.4
10/25/2020 21:00	10/25/2020 22:00	941.6
10/25/2020 22:00	10/25/2020 23:00	960.7
10/25/2020 23:00	10/26/2020 0:00	960.5
10/26/2020 0:00	10/26/2020 1:00	926.4
10/26/2020 1:00	10/26/2020 2:00	926.8
10/26/2020 2:00	10/26/2020 3:00	932.1
10/26/2020 3:00	10/26/2020 4:00	948.5
10/26/2020 4:00	10/26/2020 5:00	981.3
10/26/2020 5:00	10/26/2020 6:00	970.3
10/26/2020 6:00	10/26/2020 7:00	1116.2
10/26/2020 7:00	10/26/2020 8:00	1253.0
10/26/2020 8:00	10/26/2020 9:00	1290.1
10/26/2020 9:00	10/26/2020 10:00	1256.2
10/26/2020 10:00	10/26/2020 11:00	1244.6
10/26/2020 11:00	10/26/2020 12:00	1202.6
10/26/2020 12:00	10/26/2020 13:00	1182.7
10/26/2020 13:00	10/26/2020 14:00	1172.8
10/26/2020 14:00	10/26/2020 15:00	1154.4
10/26/2020 15:00	10/26/2020 16:00	1141.7
10/26/2020 16:00	10/26/2020 17:00	1170.0
10/26/2020 17:00	10/26/2020 18:00	1194.7
10/26/2020 18:00	10/26/2020 19:00	1160.7
10/26/2020 19:00	10/26/2020 20:00	1125.7
10/26/2020 20:00	10/26/2020 21:00	1069.1
10/26/2020 21:00	10/26/2020 22:00	978.7
10/26/2020 22:00	10/26/2020 23:00	913.7
10/26/2020 23:00	10/27/2020 0:00	853.4
10/27/2020 0:00	10/27/2020 1:00	772.5

Start Time	End Time	ANL_MW
10/27/2020 1:00	10/27/2020 2:00	743.8
10/27/2020 2:00	10/27/2020 3:00	681.8
10/27/2020 3:00	10/27/2020 4:00	654.0
10/27/2020 4:00	10/27/2020 5:00	693.4
10/27/2020 5:00	10/27/2020 6:00	721.3
10/27/2020 6:00	10/27/2020 7:00	899.5
10/27/2020 7:00	10/27/2020 8:00	987.5
10/27/2020 8:00	10/27/2020 9:00	1001.5
10/27/2020 9:00	10/27/2020 10:00	955.2
10/27/2020 10:00	10/27/2020 11:00	1012.9
10/27/2020 11:00	10/27/2020 12:00	1074.6
10/27/2020 12:00	10/27/2020 13:00	1042.4
10/27/2020 13:00	10/27/2020 14:00	961.0
10/27/2020 14:00	10/27/2020 15:00	936.4
10/27/2020 15:00	10/27/2020 16:00	984.1
10/27/2020 16:00	10/27/2020 17:00	1070.9
10/27/2020 17:00	10/27/2020 18:00	1136.1
10/27/2020 18:00	10/27/2020 19:00	1124.4
10/27/2020 19:00	10/27/2020 20:00	1134.9
10/27/2020 20:00	10/27/2020 21:00	1154.8
10/27/2020 21:00	10/27/2020 22:00	1108.6
10/27/2020 22:00	10/27/2020 23:00	1009.1
10/27/2020 23:00	10/28/2020 0:00	940.4
10/28/2020 0:00	10/28/2020 1:00	940.7
10/28/2020 1:00	10/28/2020 2:00	969.8
10/28/2020 2:00	10/28/2020 3:00	939.4
10/28/2020 3:00	10/28/2020 4:00	921.1
10/28/2020 4:00	10/28/2020 5:00	938.5
10/28/2020 5:00	10/28/2020 6:00	944.7
10/28/2020 6:00	10/28/2020 7:00	1057.4
10/28/2020 7:00	10/28/2020 8:00	1204.4
10/28/2020 8:00	10/28/2020 9:00	1262.9
10/28/2020 9:00	10/28/2020 10:00	1276.8
10/28/2020 10:00	10/28/2020 11:00	1252.9
10/28/2020 11:00	10/28/2020 12:00	1240.6
10/28/2020 12:00	10/28/2020 13:00	1250.1
10/28/2020 13:00	10/28/2020 14:00	1256.6
10/28/2020 14:00	10/28/2020 15:00	1220.0
10/28/2020 15:00	10/28/2020 16:00	1221.8
10/28/2020 16:00	10/28/2020 17:00	1255.0
10/28/2020 17:00	10/28/2020 18:00	1285.2
10/28/2020 18:00	10/28/2020 19:00	1325.9
10/28/2020 19:00	10/28/2020 20:00	1318.3
10/28/2020 20:00	10/28/2020 21:00	1277.7
10/28/2020 21:00	10/28/2020 22:00	1209.2
10/28/2020 22:00	10/28/2020 23:00	1093.5
10/28/2020 23:00	10/29/2020 0:00	1011.7
10/29/2020 0:00	10/29/2020 1:00	988.9
10/29/2020 1:00	10/29/2020 2:00	981.4
10/29/2020 2:00	10/29/2020 3:00	936.6
10/29/2020 3:00	10/29/2020 4:00	922.1
10/29/2020 4:00	10/29/2020 5:00	914.0
10/29/2020 5:00	10/29/2020 6:00	915.1
10/29/2020 6:00	10/29/2020 7:00	976.4
10/29/2020 7:00	10/29/2020 8:00	1095.3
10/29/2020 8:00	10/29/2020 9:00	1151.6
10/29/2020 9:00	10/29/2020 10:00	1184.7
10/29/2020 10:00	10/29/2020 11:00	1181.3
10/29/2020 11:00	10/29/2020 12:00	1166.9
10/29/2020 12:00	10/29/2020 13:00	1148.0
10/29/2020 13:00	10/29/2020 14:00	1117.7
10/29/2020 14:00	10/29/2020 15:00	1107.1
10/29/2020 15:00	10/29/2020 16:00	1138.8
10/29/2020 16:00	10/29/2020 17:00	1218.2
10/29/2020 17:00	10/29/2020 18:00	1267.8
10/29/2020 18:00	10/29/2020 19:00	1254.4
10/29/2020 19:00	10/29/2020 20:00	1217.0
10/29/2020 20:00	10/29/2020 21:00	1204.9
10/29/2020 21:00	10/29/2020 22:00	1109.5
10/29/2020 22:00	10/29/2020 23:00	1031.1

Start Time	End Time	ANL_MW
10/29/2020 23:00	10/30/2020 0:00	998.0
10/30/2020 0:00	10/30/2020 1:00	927.8
10/30/2020 1:00	10/30/2020 2:00	872.3
10/30/2020 2:00	10/30/2020 3:00	793.2
10/30/2020 3:00	10/30/2020 4:00	764.6
10/30/2020 4:00	10/30/2020 5:00	761.3
10/30/2020 5:00	10/30/2020 6:00	791.6
10/30/2020 6:00	10/30/2020 7:00	891.2
10/30/2020 7:00	10/30/2020 8:00	1009.2
10/30/2020 8:00	10/30/2020 9:00	1007.3
10/30/2020 9:00	10/30/2020 10:00	990.6
10/30/2020 10:00	10/30/2020 11:00	981.8
10/30/2020 11:00	10/30/2020 12:00	993.3
10/30/2020 12:00	10/30/2020 13:00	1059.5
10/30/2020 13:00	10/30/2020 14:00	1070.6
10/30/2020 14:00	10/30/2020 15:00	1059.7
10/30/2020 15:00	10/30/2020 16:00	1074.2
10/30/2020 16:00	10/30/2020 17:00	1084.5
10/30/2020 17:00	10/30/2020 18:00	1080.1
10/30/2020 18:00	10/30/2020 19:00	1054.8
10/30/2020 19:00	10/30/2020 20:00	1049.1
10/30/2020 20:00	10/30/2020 21:00	1029.1
10/30/2020 21:00	10/30/2020 22:00	1024.4
10/30/2020 22:00	10/30/2020 23:00	987.4
10/30/2020 23:00	10/31/2020 0:00	953.4
10/31/2020 0:00	10/31/2020 1:00	943.8
10/31/2020 1:00	10/31/2020 2:00	918.7
10/31/2020 2:00	10/31/2020 3:00	891.3
10/31/2020 3:00	10/31/2020 4:00	924.0
10/31/2020 4:00	10/31/2020 5:00	917.7
10/31/2020 5:00	10/31/2020 6:00	949.2
10/31/2020 6:00	10/31/2020 7:00	901.8
10/31/2020 7:00	10/31/2020 8:00	958.6
10/31/2020 8:00	10/31/2020 9:00	1060.3
10/31/2020 9:00	10/31/2020 10:00	1130.6
10/31/2020 10:00	10/31/2020 11:00	1068.1
10/31/2020 11:00	10/31/2020 12:00	1026.3
10/31/2020 12:00	10/31/2020 13:00	1047.6
10/31/2020 13:00	10/31/2020 14:00	1068.3
10/31/2020 14:00	10/31/2020 15:00	1051.9
10/31/2020 15:00	10/31/2020 16:00	1058.3
10/31/2020 16:00	10/31/2020 17:00	1102.1
10/31/2020 17:00	10/31/2020 18:00	1143.0
10/31/2020 18:00	10/31/2020 19:00	1206.6
10/31/2020 19:00	10/31/2020 20:00	1202.2
10/31/2020 20:00	10/31/2020 21:00	1153.9
10/31/2020 21:00	10/31/2020 22:00	1124.6
10/31/2020 22:00	10/31/2020 23:00	1072.0
10/31/2020 23:00	11/1/2020 0:00	1051.2
11/1/2020 0:00	11/1/2020 1:00	1053.3
11/1/2020 1:00	11/1/2020 2:00	1036.6
11/1/2020 1:00	11/1/2020 2:00	1042.0
11/1/2020 2:00	11/1/2020 3:00	1060.9
11/1/2020 3:00	11/1/2020 4:00	1041.1
11/1/2020 4:00	11/1/2020 5:00	987.6
11/1/2020 5:00	11/1/2020 6:00	904.4
11/1/2020 6:00	11/1/2020 7:00	927.8
11/1/2020 7:00	11/1/2020 8:00	973.1
11/1/2020 8:00	11/1/2020 9:00	1050.7
11/1/2020 9:00	11/1/2020 10:00	1097.2
11/1/2020 10:00	11/1/2020 11:00	1070.0
11/1/2020 11:00	11/1/2020 12:00	959.4
11/1/2020 12:00	11/1/2020 13:00	861.9
11/1/2020 13:00	11/1/2020 14:00	787.0
11/1/2020 14:00	11/1/2020 15:00	798.9
11/1/2020 15:00	11/1/2020 16:00	830.9
11/1/2020 16:00	11/1/2020 17:00	925.5
11/1/2020 17:00	11/1/2020 18:00	978.0
11/1/2020 18:00	11/1/2020 19:00	877.1
11/1/2020 19:00	11/1/2020 20:00	813.5

Start Time	End Time	ANL_MW
11/1/2020 20:00	11/1/2020 21:00	758.7
11/1/2020 21:00	11/1/2020 22:00	686.5
11/1/2020 22:00	11/1/2020 23:00	620.0
11/1/2020 23:00	11/2/2020 0:00	573.2
11/2/2020 0:00	11/2/2020 1:00	552.0
11/2/2020 1:00	11/2/2020 2:00	545.7
11/2/2020 2:00	11/2/2020 3:00	545.9
11/2/2020 3:00	11/2/2020 4:00	491.8
11/2/2020 4:00	11/2/2020 5:00	451.9
11/2/2020 5:00	11/2/2020 6:00	491.8
11/2/2020 6:00	11/2/2020 7:00	617.8
11/2/2020 7:00	11/2/2020 8:00	711.2
11/2/2020 8:00	11/2/2020 9:00	765.8
11/2/2020 9:00	11/2/2020 10:00	785.8
11/2/2020 10:00	11/2/2020 11:00	757.6
11/2/2020 11:00	11/2/2020 12:00	760.9
11/2/2020 12:00	11/2/2020 13:00	771.2
11/2/2020 13:00	11/2/2020 14:00	775.3
11/2/2020 14:00	11/2/2020 15:00	741.2
11/2/2020 15:00	11/2/2020 16:00	748.8
11/2/2020 16:00	11/2/2020 17:00	821.6
11/2/2020 17:00	11/2/2020 18:00	907.0
11/2/2020 18:00	11/2/2020 19:00	900.6
11/2/2020 19:00	11/2/2020 20:00	876.5
11/2/2020 20:00	11/2/2020 21:00	838.7
11/2/2020 21:00	11/2/2020 22:00	797.6
11/2/2020 22:00	11/2/2020 23:00	765.9
11/2/2020 23:00	11/3/2020 0:00	758.3
11/3/2020 0:00	11/3/2020 1:00	765.2
11/3/2020 1:00	11/3/2020 2:00	774.7
11/3/2020 2:00	11/3/2020 3:00	802.3
11/3/2020 3:00	11/3/2020 4:00	853.8
11/3/2020 4:00	11/3/2020 5:00	866.7
11/3/2020 5:00	11/3/2020 6:00	894.7
11/3/2020 6:00	11/3/2020 7:00	1068.9
11/3/2020 7:00	11/3/2020 8:00	1248.1
11/3/2020 8:00	11/3/2020 9:00	1303.2
11/3/2020 9:00	11/3/2020 10:00	1313.8
11/3/2020 10:00	11/3/2020 11:00	1296.7
11/3/2020 11:00	11/3/2020 12:00	1282.8
11/3/2020 12:00	11/3/2020 13:00	1305.7
11/3/2020 13:00	11/3/2020 14:00	1286.5
11/3/2020 14:00	11/3/2020 15:00	1219.7
11/3/2020 15:00	11/3/2020 16:00	1205.4
11/3/2020 16:00	11/3/2020 17:00	1230.1
11/3/2020 17:00	11/3/2020 18:00	1296.1
11/3/2020 18:00	11/3/2020 19:00	1202.4
11/3/2020 19:00	11/3/2020 20:00	1145.4
11/3/2020 20:00	11/3/2020 21:00	1069.9
11/3/2020 21:00	11/3/2020 22:00	999.3
11/3/2020 22:00	11/3/2020 23:00	960.7
11/3/2020 23:00	11/4/2020 0:00	961.6
11/4/2020 0:00	11/4/2020 1:00	986.1
11/4/2020 1:00	11/4/2020 2:00	992.3
11/4/2020 2:00	11/4/2020 3:00	954.4
11/4/2020 3:00	11/4/2020 4:00	971.4
11/4/2020 4:00	11/4/2020 5:00	1002.7
11/4/2020 5:00	11/4/2020 6:00	1060.8
11/4/2020 6:00	11/4/2020 7:00	1254.4
11/4/2020 7:00	11/4/2020 8:00	1364.7
11/4/2020 8:00	11/4/2020 9:00	1412.4
11/4/2020 9:00	11/4/2020 10:00	1438.0
11/4/2020 10:00	11/4/2020 11:00	1422.3
11/4/2020 11:00	11/4/2020 12:00	1428.0
11/4/2020 12:00	11/4/2020 13:00	1421.8
11/4/2020 13:00	11/4/2020 14:00	1393.4
11/4/2020 14:00	11/4/2020 15:00	1379.5
11/4/2020 15:00	11/4/2020 16:00	1412.4
11/4/2020 16:00	11/4/2020 17:00	1507.4
11/4/2020 17:00	11/4/2020 18:00	1578.8

Start Time	End Time	ANL_MW
11/4/2020 18:00	11/4/2020 19:00	1537.7
11/4/2020 19:00	11/4/2020 20:00	1469.1
11/4/2020 20:00	11/4/2020 21:00	1408.8
11/4/2020 21:00	11/4/2020 22:00	1315.1
11/4/2020 22:00	11/4/2020 23:00	1201.4
11/4/2020 23:00	11/5/2020 0:00	1145.1
11/5/2020 0:00	11/5/2020 1:00	1064.7
11/5/2020 1:00	11/5/2020 2:00	1011.6
11/5/2020 2:00	11/5/2020 3:00	958.3
11/5/2020 3:00	11/5/2020 4:00	943.5
11/5/2020 4:00	11/5/2020 5:00	918.9
11/5/2020 5:00	11/5/2020 6:00	940.2
11/5/2020 6:00	11/5/2020 7:00	1018.0
11/5/2020 7:00	11/5/2020 8:00	1098.3
11/5/2020 8:00	11/5/2020 9:00	1083.6
11/5/2020 9:00	11/5/2020 10:00	1019.3
11/5/2020 10:00	11/5/2020 11:00	1019.3
11/5/2020 11:00	11/5/2020 12:00	1006.5
11/5/2020 12:00	11/5/2020 13:00	965.1
11/5/2020 13:00	11/5/2020 14:00	892.3
11/5/2020 14:00	11/5/2020 15:00	876.8
11/5/2020 15:00	11/5/2020 16:00	865.6
11/5/2020 16:00	11/5/2020 17:00	916.6
11/5/2020 17:00	11/5/2020 18:00	932.2
11/5/2020 18:00	11/5/2020 19:00	893.1
11/5/2020 19:00	11/5/2020 20:00	890.2
11/5/2020 20:00	11/5/2020 21:00	827.1
11/5/2020 21:00	11/5/2020 22:00	743.9
11/5/2020 22:00	11/5/2020 23:00	646.2
11/5/2020 23:00	11/6/2020 0:00	589.4
11/6/2020 0:00	11/6/2020 1:00	540.1
11/6/2020 1:00	11/6/2020 2:00	536.8
11/6/2020 2:00	11/6/2020 3:00	538.0
11/6/2020 3:00	11/6/2020 4:00	554.2
11/6/2020 4:00	11/6/2020 5:00	560.0
11/6/2020 5:00	11/6/2020 6:00	587.9
11/6/2020 6:00	11/6/2020 7:00	677.7
11/6/2020 7:00	11/6/2020 8:00	744.4
11/6/2020 8:00	11/6/2020 9:00	769.2
11/6/2020 9:00	11/6/2020 10:00	794.7
11/6/2020 10:00	11/6/2020 11:00	790.6
11/6/2020 11:00	11/6/2020 12:00	785.3
11/6/2020 12:00	11/6/2020 13:00	804.0
11/6/2020 13:00	11/6/2020 14:00	815.5
11/6/2020 14:00	11/6/2020 15:00	846.2
11/6/2020 15:00	11/6/2020 16:00	830.9
11/6/2020 16:00	11/6/2020 17:00	832.8
11/6/2020 17:00	11/6/2020 18:00	835.7
11/6/2020 18:00	11/6/2020 19:00	766.5
11/6/2020 19:00	11/6/2020 20:00	698.6
11/6/2020 20:00	11/6/2020 21:00	701.7
11/6/2020 21:00	11/6/2020 22:00	661.5
11/6/2020 22:00	11/6/2020 23:00	588.5
11/6/2020 23:00	11/7/2020 0:00	565.3
11/7/2020 0:00	11/7/2020 1:00	546.2
11/7/2020 1:00	11/7/2020 2:00	553.3
11/7/2020 2:00	11/7/2020 3:00	538.7
11/7/2020 3:00	11/7/2020 4:00	535.8
11/7/2020 4:00	11/7/2020 5:00	542.1
11/7/2020 5:00	11/7/2020 6:00	555.8
11/7/2020 6:00	11/7/2020 7:00	618.5
11/7/2020 7:00	11/7/2020 8:00	685.2
11/7/2020 8:00	11/7/2020 9:00	762.6
11/7/2020 9:00	11/7/2020 10:00	797.5
11/7/2020 10:00	11/7/2020 11:00	813.3
11/7/2020 11:00	11/7/2020 12:00	839.1
11/7/2020 12:00	11/7/2020 13:00	882.1
11/7/2020 13:00	11/7/2020 14:00	935.4
11/7/2020 14:00	11/7/2020 15:00	927.7
11/7/2020 15:00	11/7/2020 16:00	952.3

Start Time	End Time	ANL_MW
11/7/2020 16:00	11/7/2020 17:00	1042.7
11/7/2020 17:00	11/7/2020 18:00	1141.5
11/7/2020 18:00	11/7/2020 19:00	1113.6
11/7/2020 19:00	11/7/2020 20:00	1081.3
11/7/2020 20:00	11/7/2020 21:00	1034.4
11/7/2020 21:00	11/7/2020 22:00	989.3
11/7/2020 22:00	11/7/2020 23:00	928.2
11/7/2020 23:00	11/8/2020 0:00	884.4
11/8/2020 0:00	11/8/2020 1:00	858.1
11/8/2020 1:00	11/8/2020 2:00	850.7
11/8/2020 2:00	11/8/2020 3:00	849.9
11/8/2020 3:00	11/8/2020 4:00	832.8
11/8/2020 4:00	11/8/2020 5:00	840.9
11/8/2020 5:00	11/8/2020 6:00	884.6
11/8/2020 6:00	11/8/2020 7:00	943.6
11/8/2020 7:00	11/8/2020 8:00	1025.0
11/8/2020 8:00	11/8/2020 9:00	1112.6
11/8/2020 9:00	11/8/2020 10:00	1187.9
11/8/2020 10:00	11/8/2020 11:00	1229.8
11/8/2020 11:00	11/8/2020 12:00	1196.5
11/8/2020 12:00	11/8/2020 13:00	1189.2
11/8/2020 13:00	11/8/2020 14:00	1175.8
11/8/2020 14:00	11/8/2020 15:00	1165.8
11/8/2020 15:00	11/8/2020 16:00	1198.6
11/8/2020 16:00	11/8/2020 17:00	1289.4
11/8/2020 17:00	11/8/2020 18:00	1373.2
11/8/2020 18:00	11/8/2020 19:00	1333.9
11/8/2020 19:00	11/8/2020 20:00	1295.8
11/8/2020 20:00	11/8/2020 21:00	1224.1
11/8/2020 21:00	11/8/2020 22:00	1137.1
11/8/2020 22:00	11/8/2020 23:00	1042.0
11/8/2020 23:00	11/9/2020 0:00	950.4
11/9/2020 0:00	11/9/2020 1:00	881.5
11/9/2020 1:00	11/9/2020 2:00	817.6
11/9/2020 2:00	11/9/2020 3:00	760.5
11/9/2020 3:00	11/9/2020 4:00	764.6
11/9/2020 4:00	11/9/2020 5:00	780.0
11/9/2020 5:00	11/9/2020 6:00	839.7
11/9/2020 6:00	11/9/2020 7:00	972.6
11/9/2020 7:00	11/9/2020 8:00	1041.3
11/9/2020 8:00	11/9/2020 9:00	1088.7
11/9/2020 9:00	11/9/2020 10:00	1105.2
11/9/2020 10:00	11/9/2020 11:00	1105.1
11/9/2020 11:00	11/9/2020 12:00	1094.4
11/9/2020 12:00	11/9/2020 13:00	1108.3
11/9/2020 13:00	11/9/2020 14:00	1088.1
11/9/2020 14:00	11/9/2020 15:00	1077.0
11/9/2020 15:00	11/9/2020 16:00	1078.5
11/9/2020 16:00	11/9/2020 17:00	1148.9
11/9/2020 17:00	11/9/2020 18:00	1233.4
11/9/2020 18:00	11/9/2020 19:00	1200.4
11/9/2020 19:00	11/9/2020 20:00	1135.7
11/9/2020 20:00	11/9/2020 21:00	1064.1
11/9/2020 21:00	11/9/2020 22:00	965.0
11/9/2020 22:00	11/9/2020 23:00	892.5
11/9/2020 23:00	11/10/2020 0:00	877.1
11/10/2020 0:00	11/10/2020 1:00	841.4
11/10/2020 1:00	11/10/2020 2:00	773.2
11/10/2020 2:00	11/10/2020 3:00	729.9
11/10/2020 3:00	11/10/2020 4:00	718.3
11/10/2020 4:00	11/10/2020 5:00	701.5
11/10/2020 5:00	11/10/2020 6:00	745.9
11/10/2020 6:00	11/10/2020 7:00	831.0
11/10/2020 7:00	11/10/2020 8:00	946.4
11/10/2020 8:00	11/10/2020 9:00	966.5
11/10/2020 9:00	11/10/2020 10:00	969.1
11/10/2020 10:00	11/10/2020 11:00	993.4
11/10/2020 11:00	11/10/2020 12:00	983.5
11/10/2020 12:00	11/10/2020 13:00	913.5
11/10/2020 13:00	11/10/2020 14:00	883.0

Start Time	End Time	ANL_MW
11/10/2020 14:00	11/10/2020 15:00	847.2
11/10/2020 15:00	11/10/2020 16:00	852.5
11/10/2020 16:00	11/10/2020 17:00	908.6
11/10/2020 17:00	11/10/2020 18:00	943.9
11/10/2020 18:00	11/10/2020 19:00	878.9
11/10/2020 19:00	11/10/2020 20:00	847.1
11/10/2020 20:00	11/10/2020 21:00	787.5
11/10/2020 21:00	11/10/2020 22:00	722.8
11/10/2020 22:00	11/10/2020 23:00	695.5
11/10/2020 23:00	11/11/2020 0:00	701.9
11/11/2020 0:00	11/11/2020 1:00	675.7
11/11/2020 1:00	11/11/2020 2:00	736.3
11/11/2020 2:00	11/11/2020 3:00	724.7
11/11/2020 3:00	11/11/2020 4:00	727.8
11/11/2020 4:00	11/11/2020 5:00	726.6
11/11/2020 5:00	11/11/2020 6:00	735.1
11/11/2020 6:00	11/11/2020 7:00	789.0
11/11/2020 7:00	11/11/2020 8:00	843.4
11/11/2020 8:00	11/11/2020 9:00	905.5
11/11/2020 9:00	11/11/2020 10:00	906.6
11/11/2020 10:00	11/11/2020 11:00	911.4
11/11/2020 11:00	11/11/2020 12:00	900.3
11/11/2020 12:00	11/11/2020 13:00	853.3
11/11/2020 13:00	11/11/2020 14:00	780.8
11/11/2020 14:00	11/11/2020 15:00	766.2
11/11/2020 15:00	11/11/2020 16:00	758.7
11/11/2020 16:00	11/11/2020 17:00	799.3
11/11/2020 17:00	11/11/2020 18:00	797.0
11/11/2020 18:00	11/11/2020 19:00	750.6
11/11/2020 19:00	11/11/2020 20:00	750.7
11/11/2020 20:00	11/11/2020 21:00	709.0
11/11/2020 21:00	11/11/2020 22:00	684.0
11/11/2020 22:00	11/11/2020 23:00	633.8
11/11/2020 23:00	11/12/2020 0:00	638.8
11/12/2020 0:00	11/12/2020 1:00	643.0
11/12/2020 1:00	11/12/2020 2:00	663.3
11/12/2020 2:00	11/12/2020 3:00	648.5
11/12/2020 3:00	11/12/2020 4:00	660.6
11/12/2020 4:00	11/12/2020 5:00	663.4
11/12/2020 5:00	11/12/2020 6:00	673.9
11/12/2020 6:00	11/12/2020 7:00	718.5
11/12/2020 7:00	11/12/2020 8:00	918.2
11/12/2020 8:00	11/12/2020 9:00	1033.9
11/12/2020 9:00	11/12/2020 10:00	1109.3
11/12/2020 10:00	11/12/2020 11:00	1098.6
11/12/2020 11:00	11/12/2020 12:00	1129.8
11/12/2020 12:00	11/12/2020 13:00	1128.6
11/12/2020 13:00	11/12/2020 14:00	1131.2
11/12/2020 14:00	11/12/2020 15:00	1112.5
11/12/2020 15:00	11/12/2020 16:00	1124.7
11/12/2020 16:00	11/12/2020 17:00	1195.4
11/12/2020 17:00	11/12/2020 18:00	1228.8
11/12/2020 18:00	11/12/2020 19:00	1168.9
11/12/2020 19:00	11/12/2020 20:00	1113.9
11/12/2020 20:00	11/12/2020 21:00	1039.9
11/12/2020 21:00	11/12/2020 22:00	1005.4
11/12/2020 22:00	11/12/2020 23:00	941.3
11/12/2020 23:00	11/13/2020 0:00	893.6
11/13/2020 0:00	11/13/2020 1:00	864.1
11/13/2020 1:00	11/13/2020 2:00	845.3
11/13/2020 2:00	11/13/2020 3:00	821.7
11/13/2020 3:00	11/13/2020 4:00	793.6
11/13/2020 4:00	11/13/2020 5:00	834.6
11/13/2020 5:00	11/13/2020 6:00	923.9
11/13/2020 6:00	11/13/2020 7:00	970.5
11/13/2020 7:00	11/13/2020 8:00	1091.9
11/13/2020 8:00	11/13/2020 9:00	1165.5
11/13/2020 9:00	11/13/2020 10:00	1180.2
11/13/2020 10:00	11/13/2020 11:00	1173.7
11/13/2020 11:00	11/13/2020 12:00	1190.6

Start Time	End Time	ANL_MW
11/13/2020 12:00	11/13/2020 13:00	1198.1
11/13/2020 13:00	11/13/2020 14:00	1186.8
11/13/2020 14:00	11/13/2020 15:00	1164.2
11/13/2020 15:00	11/13/2020 16:00	1173.2
11/13/2020 16:00	11/13/2020 17:00	1200.3
11/13/2020 17:00	11/13/2020 18:00	1238.7
11/13/2020 18:00	11/13/2020 19:00	1201.4
11/13/2020 19:00	11/13/2020 20:00	1143.4
11/13/2020 20:00	11/13/2020 21:00	1063.0
11/13/2020 21:00	11/13/2020 22:00	996.8
11/13/2020 22:00	11/13/2020 23:00	1011.3
11/13/2020 23:00	11/14/2020 0:00	991.0
11/14/2020 0:00	11/14/2020 1:00	964.3
11/14/2020 1:00	11/14/2020 2:00	933.3
11/14/2020 2:00	11/14/2020 3:00	925.2
11/14/2020 3:00	11/14/2020 4:00	940.5
11/14/2020 4:00	11/14/2020 5:00	971.2
11/14/2020 5:00	11/14/2020 6:00	965.7
11/14/2020 6:00	11/14/2020 7:00	1017.6
11/14/2020 7:00	11/14/2020 8:00	1041.7
11/14/2020 8:00	11/14/2020 9:00	1064.6
11/14/2020 9:00	11/14/2020 10:00	1105.8
11/14/2020 10:00	11/14/2020 11:00	1101.5
11/14/2020 11:00	11/14/2020 12:00	1078.2
11/14/2020 12:00	11/14/2020 13:00	1058.6
11/14/2020 13:00	11/14/2020 14:00	1029.5
11/14/2020 14:00	11/14/2020 15:00	992.9
11/14/2020 15:00	11/14/2020 16:00	981.7
11/14/2020 16:00	11/14/2020 17:00	1070.0
11/14/2020 17:00	11/14/2020 18:00	1129.1
11/14/2020 18:00	11/14/2020 19:00	1111.5
11/14/2020 19:00	11/14/2020 20:00	1080.1
11/14/2020 20:00	11/14/2020 21:00	1011.5
11/14/2020 21:00	11/14/2020 22:00	1005.6
11/14/2020 22:00	11/14/2020 23:00	961.4
11/14/2020 23:00	11/15/2020 0:00	923.1
11/15/2020 0:00	11/15/2020 1:00	858.2
11/15/2020 1:00	11/15/2020 2:00	830.7
11/15/2020 2:00	11/15/2020 3:00	847.6
11/15/2020 3:00	11/15/2020 4:00	874.7
11/15/2020 4:00	11/15/2020 5:00	901.7
11/15/2020 5:00	11/15/2020 6:00	897.8
11/15/2020 6:00	11/15/2020 7:00	964.3
11/15/2020 7:00	11/15/2020 8:00	1025.6
11/15/2020 8:00	11/15/2020 9:00	1099.5
11/15/2020 9:00	11/15/2020 10:00	1142.2
11/15/2020 10:00	11/15/2020 11:00	1162.2
11/15/2020 11:00	11/15/2020 12:00	1175.2
11/15/2020 12:00	11/15/2020 13:00	1182.8
11/15/2020 13:00	11/15/2020 14:00	1168.9
11/15/2020 14:00	11/15/2020 15:00	1192.3
11/15/2020 15:00	11/15/2020 16:00	1254.9
11/15/2020 16:00	11/15/2020 17:00	1358.2
11/15/2020 17:00	11/15/2020 18:00	1468.5
11/15/2020 18:00	11/15/2020 19:00	1435.1
11/15/2020 19:00	11/15/2020 20:00	1373.9
11/15/2020 20:00	11/15/2020 21:00	1279.6
11/15/2020 21:00	11/15/2020 22:00	1183.2
11/15/2020 22:00	11/15/2020 23:00	1073.0
11/15/2020 23:00	11/16/2020 0:00	855.5
11/16/2020 0:00	11/16/2020 1:00	735.6
11/16/2020 1:00	11/16/2020 2:00	649.6
11/16/2020 2:00	11/16/2020 3:00	602.5
11/16/2020 3:00	11/16/2020 4:00	592.7
11/16/2020 4:00	11/16/2020 5:00	580.3
11/16/2020 5:00	11/16/2020 6:00	623.0
11/16/2020 6:00	11/16/2020 7:00	760.3
11/16/2020 7:00	11/16/2020 8:00	938.3
11/16/2020 8:00	11/16/2020 9:00	969.4
11/16/2020 9:00	11/16/2020 10:00	1035.4

Start Time	End Time	ANL_MW
11/16/2020 10:00	11/16/2020 11:00	1022.3
11/16/2020 11:00	11/16/2020 12:00	987.1
11/16/2020 12:00	11/16/2020 13:00	922.1
11/16/2020 13:00	11/16/2020 14:00	930.7
11/16/2020 14:00	11/16/2020 15:00	910.5
11/16/2020 15:00	11/16/2020 16:00	963.3
11/16/2020 16:00	11/16/2020 17:00	1022.8
11/16/2020 17:00	11/16/2020 18:00	1068.3
11/16/2020 18:00	11/16/2020 19:00	1027.8
11/16/2020 19:00	11/16/2020 20:00	1025.6
11/16/2020 20:00	11/16/2020 21:00	1014.0
11/16/2020 21:00	11/16/2020 22:00	978.8
11/16/2020 22:00	11/16/2020 23:00	866.5
11/16/2020 23:00	11/17/2020 0:00	885.0
11/17/2020 0:00	11/17/2020 1:00	861.1
11/17/2020 1:00	11/17/2020 2:00	838.7
11/17/2020 2:00	11/17/2020 3:00	846.1
11/17/2020 3:00	11/17/2020 4:00	857.8
11/17/2020 4:00	11/17/2020 5:00	873.1
11/17/2020 5:00	11/17/2020 6:00	944.9
11/17/2020 6:00	11/17/2020 7:00	1080.8
11/17/2020 7:00	11/17/2020 8:00	1124.7
11/17/2020 8:00	11/17/2020 9:00	1207.5
11/17/2020 9:00	11/17/2020 10:00	1244.5
11/17/2020 10:00	11/17/2020 11:00	1246.7
11/17/2020 11:00	11/17/2020 12:00	1212.1
11/17/2020 12:00	11/17/2020 13:00	1160.9
11/17/2020 13:00	11/17/2020 14:00	1135.1
11/17/2020 14:00	11/17/2020 15:00	1087.6
11/17/2020 15:00	11/17/2020 16:00	1100.0
11/17/2020 16:00	11/17/2020 17:00	1192.3
11/17/2020 17:00	11/17/2020 18:00	1268.2
11/17/2020 18:00	11/17/2020 19:00	1248.4
11/17/2020 19:00	11/17/2020 20:00	1239.5
11/17/2020 20:00	11/17/2020 21:00	1196.0
11/17/2020 21:00	11/17/2020 22:00	1144.1
11/17/2020 22:00	11/17/2020 23:00	1105.9
11/17/2020 23:00	11/18/2020 0:00	1102.8
11/18/2020 0:00	11/18/2020 1:00	1130.0
11/18/2020 1:00	11/18/2020 2:00	1112.3
11/18/2020 2:00	11/18/2020 3:00	1096.5
11/18/2020 3:00	11/18/2020 4:00	1067.5
11/18/2020 4:00	11/18/2020 5:00	1028.3
11/18/2020 5:00	11/18/2020 6:00	1065.2
11/18/2020 6:00	11/18/2020 7:00	1192.9
11/18/2020 7:00	11/18/2020 8:00	1232.5
11/18/2020 8:00	11/18/2020 9:00	1270.4
11/18/2020 9:00	11/18/2020 10:00	1269.5
11/18/2020 10:00	11/18/2020 11:00	1230.3
11/18/2020 11:00	11/18/2020 12:00	1223.9
11/18/2020 12:00	11/18/2020 13:00	1157.5
11/18/2020 13:00	11/18/2020 14:00	1070.9
11/18/2020 14:00	11/18/2020 15:00	1006.6
11/18/2020 15:00	11/18/2020 16:00	1061.8
11/18/2020 16:00	11/18/2020 17:00	1183.1
11/18/2020 17:00	11/18/2020 18:00	1260.9
11/18/2020 18:00	11/18/2020 19:00	1215.7
11/18/2020 19:00	11/18/2020 20:00	1158.0
11/18/2020 20:00	11/18/2020 21:00	1103.9
11/18/2020 21:00	11/18/2020 22:00	1055.0
11/18/2020 22:00	11/18/2020 23:00	1029.9
11/18/2020 23:00	11/19/2020 0:00	1035.7
11/19/2020 0:00	11/19/2020 1:00	1045.0
11/19/2020 1:00	11/19/2020 2:00	937.2
11/19/2020 2:00	11/19/2020 3:00	926.8
11/19/2020 3:00	11/19/2020 4:00	933.2
11/19/2020 4:00	11/19/2020 5:00	967.5
11/19/2020 5:00	11/19/2020 6:00	1052.6
11/19/2020 6:00	11/19/2020 7:00	1155.9
11/19/2020 7:00	11/19/2020 8:00	1287.9

Start Time	End Time	ANL_MW
11/19/2020 8:00	11/19/2020 9:00	1340.4
11/19/2020 9:00	11/19/2020 10:00	1317.9
11/19/2020 10:00	11/19/2020 11:00	1276.5
11/19/2020 11:00	11/19/2020 12:00	1229.6
11/19/2020 12:00	11/19/2020 13:00	1208.6
11/19/2020 13:00	11/19/2020 14:00	1191.0
11/19/2020 14:00	11/19/2020 15:00	1170.4
11/19/2020 15:00	11/19/2020 16:00	1203.8
11/19/2020 16:00	11/19/2020 17:00	1308.2
11/19/2020 17:00	11/19/2020 18:00	1369.5
11/19/2020 18:00	11/19/2020 19:00	1308.0
11/19/2020 19:00	11/19/2020 20:00	1208.7
11/19/2020 20:00	11/19/2020 21:00	1093.6
11/19/2020 21:00	11/19/2020 22:00	976.6
11/19/2020 22:00	11/19/2020 23:00	956.2
11/19/2020 23:00	11/20/2020 0:00	944.7
11/20/2020 0:00	11/20/2020 1:00	893.0
11/20/2020 1:00	11/20/2020 2:00	849.2
11/20/2020 2:00	11/20/2020 3:00	830.8
11/20/2020 3:00	11/20/2020 4:00	795.6
11/20/2020 4:00	11/20/2020 5:00	783.5
11/20/2020 5:00	11/20/2020 6:00	830.3
11/20/2020 6:00	11/20/2020 7:00	927.4
11/20/2020 7:00	11/20/2020 8:00	966.4
11/20/2020 8:00	11/20/2020 9:00	1013.7
11/20/2020 9:00	11/20/2020 10:00	1033.6
11/20/2020 10:00	11/20/2020 11:00	1066.8
11/20/2020 11:00	11/20/2020 12:00	1075.7
11/20/2020 12:00	11/20/2020 13:00	1095.3
11/20/2020 13:00	11/20/2020 14:00	1089.7
11/20/2020 14:00	11/20/2020 15:00	1078.5
11/20/2020 15:00	11/20/2020 16:00	1119.1
11/20/2020 16:00	11/20/2020 17:00	1141.7
11/20/2020 17:00	11/20/2020 18:00	1162.8
11/20/2020 18:00	11/20/2020 19:00	1126.3
11/20/2020 19:00	11/20/2020 20:00	1048.4
11/20/2020 20:00	11/20/2020 21:00	987.1
11/20/2020 21:00	11/20/2020 22:00	955.7
11/20/2020 22:00	11/20/2020 23:00	864.6
11/20/2020 23:00	11/21/2020 0:00	810.5
11/21/2020 0:00	11/21/2020 1:00	793.4
11/21/2020 1:00	11/21/2020 2:00	738.1
11/21/2020 2:00	11/21/2020 3:00	715.8
11/21/2020 3:00	11/21/2020 4:00	715.7
11/21/2020 4:00	11/21/2020 5:00	728.5
11/21/2020 5:00	11/21/2020 6:00	754.2
11/21/2020 6:00	11/21/2020 7:00	790.1
11/21/2020 7:00	11/21/2020 8:00	859.8
11/21/2020 8:00	11/21/2020 9:00	961.9
11/21/2020 9:00	11/21/2020 10:00	1040.7
11/21/2020 10:00	11/21/2020 11:00	1048.5
11/21/2020 11:00	11/21/2020 12:00	979.7
11/21/2020 12:00	11/21/2020 13:00	908.5
11/21/2020 13:00	11/21/2020 14:00	847.3
11/21/2020 14:00	11/21/2020 15:00	876.0
11/21/2020 15:00	11/21/2020 16:00	898.7
11/21/2020 16:00	11/21/2020 17:00	1036.6
11/21/2020 17:00	11/21/2020 18:00	1101.3
11/21/2020 18:00	11/21/2020 19:00	1059.7
11/21/2020 19:00	11/21/2020 20:00	1008.4
11/21/2020 20:00	11/21/2020 21:00	1002.0
11/21/2020 21:00	11/21/2020 22:00	982.5
11/21/2020 22:00	11/21/2020 23:00	996.1
11/21/2020 23:00	11/22/2020 0:00	969.6
11/22/2020 0:00	11/22/2020 1:00	950.2
11/22/2020 1:00	11/22/2020 2:00	980.8
11/22/2020 2:00	11/22/2020 3:00	997.7
11/22/2020 3:00	11/22/2020 4:00	1008.6
11/22/2020 4:00	11/22/2020 5:00	1031.5
11/22/2020 5:00	11/22/2020 6:00	1082.8

Start Time	End Time	ANL_MW
11/22/2020 6:00	11/22/2020 7:00	1106.5
11/22/2020 7:00	11/22/2020 8:00	1191.9
11/22/2020 8:00	11/22/2020 9:00	1289.4
11/22/2020 9:00	11/22/2020 10:00	1352.5
11/22/2020 10:00	11/22/2020 11:00	1366.3
11/22/2020 11:00	11/22/2020 12:00	1386.5
11/22/2020 12:00	11/22/2020 13:00	1385.5
11/22/2020 13:00	11/22/2020 14:00	1360.3
11/22/2020 14:00	11/22/2020 15:00	1326.5
11/22/2020 15:00	11/22/2020 16:00	1302.0
11/22/2020 16:00	11/22/2020 17:00	1427.5
11/22/2020 17:00	11/22/2020 18:00	1532.7
11/22/2020 18:00	11/22/2020 19:00	1487.9
11/22/2020 19:00	11/22/2020 20:00	1428.8
11/22/2020 20:00	11/22/2020 21:00	1356.6
11/22/2020 21:00	11/22/2020 22:00	1256.4
11/22/2020 22:00	11/22/2020 23:00	1166.5
11/22/2020 23:00	11/23/2020 0:00	1100.7
11/23/2020 0:00	11/23/2020 1:00	1029.0
11/23/2020 1:00	11/23/2020 2:00	972.0
11/23/2020 2:00	11/23/2020 3:00	913.0
11/23/2020 3:00	11/23/2020 4:00	838.8
11/23/2020 4:00	11/23/2020 5:00	809.0
11/23/2020 5:00	11/23/2020 6:00	810.0
11/23/2020 6:00	11/23/2020 7:00	880.1
11/23/2020 7:00	11/23/2020 8:00	942.6
11/23/2020 8:00	11/23/2020 9:00	952.8
11/23/2020 9:00	11/23/2020 10:00	938.7
11/23/2020 10:00	11/23/2020 11:00	930.6
11/23/2020 11:00	11/23/2020 12:00	954.8
11/23/2020 12:00	11/23/2020 13:00	972.0
11/23/2020 13:00	11/23/2020 14:00	964.8
11/23/2020 14:00	11/23/2020 15:00	958.4
11/23/2020 15:00	11/23/2020 16:00	941.1
11/23/2020 16:00	11/23/2020 17:00	1027.3
11/23/2020 17:00	11/23/2020 18:00	1082.8
11/23/2020 18:00	11/23/2020 19:00	1036.5
11/23/2020 19:00	11/23/2020 20:00	1002.2
11/23/2020 20:00	11/23/2020 21:00	945.2
11/23/2020 21:00	11/23/2020 22:00	817.9
11/23/2020 22:00	11/23/2020 23:00	748.2
11/23/2020 23:00	11/24/2020 0:00	723.6
11/24/2020 0:00	11/24/2020 1:00	658.3
11/24/2020 1:00	11/24/2020 2:00	619.3
11/24/2020 2:00	11/24/2020 3:00	635.4
11/24/2020 3:00	11/24/2020 4:00	630.4
11/24/2020 4:00	11/24/2020 5:00	628.8
11/24/2020 5:00	11/24/2020 6:00	680.3
11/24/2020 6:00	11/24/2020 7:00	814.1
11/24/2020 7:00	11/24/2020 8:00	939.7
11/24/2020 8:00	11/24/2020 9:00	1000.0
11/24/2020 9:00	11/24/2020 10:00	968.6
11/24/2020 10:00	11/24/2020 11:00	959.6
11/24/2020 11:00	11/24/2020 12:00	958.3
11/24/2020 12:00	11/24/2020 13:00	972.9
11/24/2020 13:00	11/24/2020 14:00	968.8
11/24/2020 14:00	11/24/2020 15:00	949.4
11/24/2020 15:00	11/24/2020 16:00	971.9
11/24/2020 16:00	11/24/2020 17:00	1078.8
11/24/2020 17:00	11/24/2020 18:00	1166.8
11/24/2020 18:00	11/24/2020 19:00	1136.5
11/24/2020 19:00	11/24/2020 20:00	1116.1
11/24/2020 20:00	11/24/2020 21:00	1059.6
11/24/2020 21:00	11/24/2020 22:00	1046.7
11/24/2020 22:00	11/24/2020 23:00	1011.0
11/24/2020 23:00	11/25/2020 0:00	1051.6
11/25/2020 0:00	11/25/2020 1:00	1098.8
11/25/2020 1:00	11/25/2020 2:00	1123.6
11/25/2020 2:00	11/25/2020 3:00	1148.3
11/25/2020 3:00	11/25/2020 4:00	1183.1

Start Time	End Time	ANL_MW
11/25/2020 4:00	11/25/2020 5:00	1241.0
11/25/2020 5:00	11/25/2020 6:00	1285.9
11/25/2020 6:00	11/25/2020 7:00	1432.7
11/25/2020 7:00	11/25/2020 8:00	1547.2
11/25/2020 8:00	11/25/2020 9:00	1577.3
11/25/2020 9:00	11/25/2020 10:00	1558.8
11/25/2020 10:00	11/25/2020 11:00	1529.0
11/25/2020 11:00	11/25/2020 12:00	1504.0
11/25/2020 12:00	11/25/2020 13:00	1486.8
11/25/2020 13:00	11/25/2020 14:00	1430.7
11/25/2020 14:00	11/25/2020 15:00	1400.8
11/25/2020 15:00	11/25/2020 16:00	1419.3
11/25/2020 16:00	11/25/2020 17:00	1486.8
11/25/2020 17:00	11/25/2020 18:00	1468.3
11/25/2020 18:00	11/25/2020 19:00	1308.9
11/25/2020 19:00	11/25/2020 20:00	1203.6
11/25/2020 20:00	11/25/2020 21:00	1092.5
11/25/2020 21:00	11/25/2020 22:00	965.3
11/25/2020 22:00	11/25/2020 23:00	926.1
11/25/2020 23:00	11/26/2020 0:00	919.8
11/26/2020 0:00	11/26/2020 1:00	906.0
11/26/2020 1:00	11/26/2020 2:00	883.7
11/26/2020 2:00	11/26/2020 3:00	859.9
11/26/2020 3:00	11/26/2020 4:00	874.6
11/26/2020 4:00	11/26/2020 5:00	905.2
11/26/2020 5:00	11/26/2020 6:00	981.6
11/26/2020 6:00	11/26/2020 7:00	1177.6
11/26/2020 7:00	11/26/2020 8:00	1337.7
11/26/2020 8:00	11/26/2020 9:00	1340.4
11/26/2020 9:00	11/26/2020 10:00	1347.8
11/26/2020 10:00	11/26/2020 11:00	1343.8
11/26/2020 11:00	11/26/2020 12:00	1340.9
11/26/2020 12:00	11/26/2020 13:00	1331.6
11/26/2020 13:00	11/26/2020 14:00	1301.0
11/26/2020 14:00	11/26/2020 15:00	1311.6
11/26/2020 15:00	11/26/2020 16:00	1306.9
11/26/2020 16:00	11/26/2020 17:00	1343.0
11/26/2020 17:00	11/26/2020 18:00	1355.9
11/26/2020 18:00	11/26/2020 19:00	1225.0
11/26/2020 19:00	11/26/2020 20:00	1125.6
11/26/2020 20:00	11/26/2020 21:00	1064.0
11/26/2020 21:00	11/26/2020 22:00	1009.4
11/26/2020 22:00	11/26/2020 23:00	868.0
11/26/2020 23:00	11/27/2020 0:00	771.8
11/27/2020 0:00	11/27/2020 1:00	706.0
11/27/2020 1:00	11/27/2020 2:00	654.8
11/27/2020 2:00	11/27/2020 3:00	647.5
11/27/2020 3:00	11/27/2020 4:00	666.6
11/27/2020 4:00	11/27/2020 5:00	688.8
11/27/2020 5:00	11/27/2020 6:00	720.3
11/27/2020 6:00	11/27/2020 7:00	815.4
11/27/2020 7:00	11/27/2020 8:00	939.9
11/27/2020 8:00	11/27/2020 9:00	993.9
11/27/2020 9:00	11/27/2020 10:00	1051.6
11/27/2020 10:00	11/27/2020 11:00	1092.6
11/27/2020 11:00	11/27/2020 12:00	1146.4
11/27/2020 12:00	11/27/2020 13:00	1184.5
11/27/2020 13:00	11/27/2020 14:00	1206.8
11/27/2020 14:00	11/27/2020 15:00	1212.5
11/27/2020 15:00	11/27/2020 16:00	1173.4
11/27/2020 16:00	11/27/2020 17:00	1230.8
11/27/2020 17:00	11/27/2020 18:00	1302.3
11/27/2020 18:00	11/27/2020 19:00	1243.4
11/27/2020 19:00	11/27/2020 20:00	1193.6
11/27/2020 20:00	11/27/2020 21:00	1190.5
11/27/2020 21:00	11/27/2020 22:00	1143.1
11/27/2020 22:00	11/27/2020 23:00	1091.0
11/27/2020 23:00	11/28/2020 0:00	1073.1
11/28/2020 0:00	11/28/2020 1:00	1044.3
11/28/2020 1:00	11/28/2020 2:00	1011.4

Start Time	End Time	ANL_MW
11/28/2020 2:00	11/28/2020 3:00	970.5
11/28/2020 3:00	11/28/2020 4:00	967.3
11/28/2020 4:00	11/28/2020 5:00	968.2
11/28/2020 5:00	11/28/2020 6:00	1009.7
11/28/2020 6:00	11/28/2020 7:00	1014.6
11/28/2020 7:00	11/28/2020 8:00	1078.9
11/28/2020 8:00	11/28/2020 9:00	1159.8
11/28/2020 9:00	11/28/2020 10:00	1241.0
11/28/2020 10:00	11/28/2020 11:00	1279.1
11/28/2020 11:00	11/28/2020 12:00	1295.2
11/28/2020 12:00	11/28/2020 13:00	1295.6
11/28/2020 13:00	11/28/2020 14:00	1270.4
11/28/2020 14:00	11/28/2020 15:00	1245.7
11/28/2020 15:00	11/28/2020 16:00	1245.8
11/28/2020 16:00	11/28/2020 17:00	1327.8
11/28/2020 17:00	11/28/2020 18:00	1383.7
11/28/2020 18:00	11/28/2020 19:00	1331.7
11/28/2020 19:00	11/28/2020 20:00	1273.9
11/28/2020 20:00	11/28/2020 21:00	1227.0
11/28/2020 21:00	11/28/2020 22:00	1172.4
11/28/2020 22:00	11/28/2020 23:00	1145.0
11/28/2020 23:00	11/29/2020 0:00	1106.8
11/29/2020 0:00	11/29/2020 1:00	1067.0
11/29/2020 1:00	11/29/2020 2:00	1039.4
11/29/2020 2:00	11/29/2020 3:00	1016.6
11/29/2020 3:00	11/29/2020 4:00	978.9
11/29/2020 4:00	11/29/2020 5:00	947.9
11/29/2020 5:00	11/29/2020 6:00	970.9
11/29/2020 6:00	11/29/2020 7:00	998.1
11/29/2020 7:00	11/29/2020 8:00	1051.3
11/29/2020 8:00	11/29/2020 9:00	1094.0
11/29/2020 9:00	11/29/2020 10:00	1090.5
11/29/2020 10:00	11/29/2020 11:00	1138.3
11/29/2020 11:00	11/29/2020 12:00	1073.9
11/29/2020 12:00	11/29/2020 13:00	1002.4
11/29/2020 13:00	11/29/2020 14:00	969.3
11/29/2020 14:00	11/29/2020 15:00	984.8
11/29/2020 15:00	11/29/2020 16:00	1043.5
11/29/2020 16:00	11/29/2020 17:00	1201.1
11/29/2020 17:00	11/29/2020 18:00	1337.4
11/29/2020 18:00	11/29/2020 19:00	1292.0
11/29/2020 19:00	11/29/2020 20:00	1284.2
11/29/2020 20:00	11/29/2020 21:00	1250.8
11/29/2020 21:00	11/29/2020 22:00	1215.9
11/29/2020 22:00	11/29/2020 23:00	1129.4
11/29/2020 23:00	11/30/2020 0:00	1088.8
11/30/2020 0:00	11/30/2020 1:00	1121.5
11/30/2020 1:00	11/30/2020 2:00	1122.8
11/30/2020 2:00	11/30/2020 3:00	1151.5
11/30/2020 3:00	11/30/2020 4:00	1160.0
11/30/2020 4:00	11/30/2020 5:00	1183.7
11/30/2020 5:00	11/30/2020 6:00	1190.7
11/30/2020 6:00	11/30/2020 7:00	1296.9
11/30/2020 7:00	11/30/2020 8:00	1359.3
11/30/2020 8:00	11/30/2020 9:00	1307.0
11/30/2020 9:00	11/30/2020 10:00	1240.6
11/30/2020 10:00	11/30/2020 11:00	1220.3
11/30/2020 11:00	11/30/2020 12:00	1176.4
11/30/2020 12:00	11/30/2020 13:00	1146.8
11/30/2020 13:00	11/30/2020 14:00	1100.9
11/30/2020 14:00	11/30/2020 15:00	1096.2
11/30/2020 15:00	11/30/2020 16:00	1112.8
11/30/2020 16:00	11/30/2020 17:00	1164.7
11/30/2020 17:00	11/30/2020 18:00	1174.1
11/30/2020 18:00	11/30/2020 19:00	1097.7
11/30/2020 19:00	11/30/2020 20:00	1024.7
11/30/2020 20:00	11/30/2020 21:00	944.5
11/30/2020 21:00	11/30/2020 22:00	901.0
11/30/2020 22:00	11/30/2020 23:00	866.5
11/30/2020 23:00	12/1/2020 0:00	833.4

Start Time	End Time	ANL_MW
12/1/2020 0:00	12/1/2020 1:00	813.7
12/1/2020 1:00	12/1/2020 2:00	776.2
12/1/2020 2:00	12/1/2020 3:00	754.9
12/1/2020 3:00	12/1/2020 4:00	739.4
12/1/2020 4:00	12/1/2020 5:00	739.3
12/1/2020 5:00	12/1/2020 6:00	778.5
12/1/2020 6:00	12/1/2020 7:00	781.4
12/1/2020 7:00	12/1/2020 8:00	882.0
12/1/2020 8:00	12/1/2020 9:00	930.9
12/1/2020 9:00	12/1/2020 10:00	922.2
12/1/2020 10:00	12/1/2020 11:00	862.9
12/1/2020 11:00	12/1/2020 12:00	883.4
12/1/2020 12:00	12/1/2020 13:00	950.1
12/1/2020 13:00	12/1/2020 14:00	846.9
12/1/2020 14:00	12/1/2020 15:00	835.8
12/1/2020 15:00	12/1/2020 16:00	847.1
12/1/2020 16:00	12/1/2020 17:00	926.4
12/1/2020 17:00	12/1/2020 18:00	990.5
12/1/2020 18:00	12/1/2020 19:00	944.0
12/1/2020 19:00	12/1/2020 20:00	909.3
12/1/2020 20:00	12/1/2020 21:00	852.9
12/1/2020 21:00	12/1/2020 22:00	848.4
12/1/2020 22:00	12/1/2020 23:00	820.2
12/1/2020 23:00	12/2/2020 0:00	746.6
12/2/2020 0:00	12/2/2020 1:00	731.0
12/2/2020 1:00	12/2/2020 2:00	724.9
12/2/2020 2:00	12/2/2020 3:00	704.1
12/2/2020 3:00	12/2/2020 4:00	711.9
12/2/2020 4:00	12/2/2020 5:00	733.4
12/2/2020 5:00	12/2/2020 6:00	802.5
12/2/2020 6:00	12/2/2020 7:00	930.0
12/2/2020 7:00	12/2/2020 8:00	1050.6
12/2/2020 8:00	12/2/2020 9:00	1101.3
12/2/2020 9:00	12/2/2020 10:00	1123.8
12/2/2020 10:00	12/2/2020 11:00	1173.8
12/2/2020 11:00	12/2/2020 12:00	1226.6
12/2/2020 12:00	12/2/2020 13:00	1258.7
12/2/2020 13:00	12/2/2020 14:00	1256.3
12/2/2020 14:00	12/2/2020 15:00	1249.2
12/2/2020 15:00	12/2/2020 16:00	1269.8
12/2/2020 16:00	12/2/2020 17:00	1316.9
12/2/2020 17:00	12/2/2020 18:00	1386.3
12/2/2020 18:00	12/2/2020 19:00	1333.5
12/2/2020 19:00	12/2/2020 20:00	1267.3
12/2/2020 20:00	12/2/2020 21:00	1231.4
12/2/2020 21:00	12/2/2020 22:00	1130.1
12/2/2020 22:00	12/2/2020 23:00	1060.4
12/2/2020 23:00	12/3/2020 0:00	963.9
12/3/2020 0:00	12/3/2020 1:00	884.2
12/3/2020 1:00	12/3/2020 2:00	832.9
12/3/2020 2:00	12/3/2020 3:00	806.4
12/3/2020 3:00	12/3/2020 4:00	802.7
12/3/2020 4:00	12/3/2020 5:00	830.7
12/3/2020 5:00	12/3/2020 6:00	841.4
12/3/2020 6:00	12/3/2020 7:00	947.2
12/3/2020 7:00	12/3/2020 8:00	1071.4
12/3/2020 8:00	12/3/2020 9:00	1105.5
12/3/2020 9:00	12/3/2020 10:00	1118.3
12/3/2020 10:00	12/3/2020 11:00	1078.0
12/3/2020 11:00	12/3/2020 12:00	1084.9
12/3/2020 12:00	12/3/2020 13:00	1096.7
12/3/2020 13:00	12/3/2020 14:00	1089.0
12/3/2020 14:00	12/3/2020 15:00	1114.3
12/3/2020 15:00	12/3/2020 16:00	1155.0
12/3/2020 16:00	12/3/2020 17:00	1269.7
12/3/2020 17:00	12/3/2020 18:00	1374.8
12/3/2020 18:00	12/3/2020 19:00	1297.7
12/3/2020 19:00	12/3/2020 20:00	1253.6
12/3/2020 20:00	12/3/2020 21:00	1236.2
12/3/2020 21:00	12/3/2020 22:00	1186.7

Start Time	End Time	ANL_MW
12/3/2020 22:00	12/3/2020 23:00	1068.9
12/3/2020 23:00	12/4/2020 0:00	1011.9
12/4/2020 0:00	12/4/2020 1:00	954.1
12/4/2020 1:00	12/4/2020 2:00	923.2
12/4/2020 2:00	12/4/2020 3:00	909.1
12/4/2020 3:00	12/4/2020 4:00	856.1
12/4/2020 4:00	12/4/2020 5:00	860.0
12/4/2020 5:00	12/4/2020 6:00	907.0
12/4/2020 6:00	12/4/2020 7:00	1009.5
12/4/2020 7:00	12/4/2020 8:00	1072.5
12/4/2020 8:00	12/4/2020 9:00	1087.0
12/4/2020 9:00	12/4/2020 10:00	1092.4
12/4/2020 10:00	12/4/2020 11:00	1079.9
12/4/2020 11:00	12/4/2020 12:00	1038.5
12/4/2020 12:00	12/4/2020 13:00	1027.8
12/4/2020 13:00	12/4/2020 14:00	979.2
12/4/2020 14:00	12/4/2020 15:00	962.8
12/4/2020 15:00	12/4/2020 16:00	1024.2
12/4/2020 16:00	12/4/2020 17:00	1126.2
12/4/2020 17:00	12/4/2020 18:00	1154.6
12/4/2020 18:00	12/4/2020 19:00	1067.4
12/4/2020 19:00	12/4/2020 20:00	1012.6
12/4/2020 20:00	12/4/2020 21:00	981.0
12/4/2020 21:00	12/4/2020 22:00	917.9
12/4/2020 22:00	12/4/2020 23:00	863.7
12/4/2020 23:00	12/5/2020 0:00	837.0
12/5/2020 0:00	12/5/2020 1:00	798.4
12/5/2020 1:00	12/5/2020 2:00	743.9
12/5/2020 2:00	12/5/2020 3:00	678.9
12/5/2020 3:00	12/5/2020 4:00	693.4
12/5/2020 4:00	12/5/2020 5:00	728.6
12/5/2020 5:00	12/5/2020 6:00	790.9
12/5/2020 6:00	12/5/2020 7:00	860.9
12/5/2020 7:00	12/5/2020 8:00	971.4
12/5/2020 8:00	12/5/2020 9:00	1125.2
12/5/2020 9:00	12/5/2020 10:00	1150.7
12/5/2020 10:00	12/5/2020 11:00	1233.7
12/5/2020 11:00	12/5/2020 12:00	1277.8
12/5/2020 12:00	12/5/2020 13:00	1282.6
12/5/2020 13:00	12/5/2020 14:00	1227.2
12/5/2020 14:00	12/5/2020 15:00	1176.6
12/5/2020 15:00	12/5/2020 16:00	1121.8
12/5/2020 16:00	12/5/2020 17:00	1122.2
12/5/2020 17:00	12/5/2020 18:00	1121.5
12/5/2020 18:00	12/5/2020 19:00	985.3
12/5/2020 19:00	12/5/2020 20:00	982.0
12/5/2020 20:00	12/5/2020 21:00	928.3
12/5/2020 21:00	12/5/2020 22:00	861.6
12/5/2020 22:00	12/5/2020 23:00	788.2
12/5/2020 23:00	12/6/2020 0:00	741.9
12/6/2020 0:00	12/6/2020 1:00	659.1
12/6/2020 1:00	12/6/2020 2:00	671.5
12/6/2020 2:00	12/6/2020 3:00	657.6
12/6/2020 3:00	12/6/2020 4:00	665.5
12/6/2020 4:00	12/6/2020 5:00	680.8
12/6/2020 5:00	12/6/2020 6:00	697.0
12/6/2020 6:00	12/6/2020 7:00	707.4
12/6/2020 7:00	12/6/2020 8:00	806.0
12/6/2020 8:00	12/6/2020 9:00	818.8
12/6/2020 9:00	12/6/2020 10:00	839.7
12/6/2020 10:00	12/6/2020 11:00	855.0
12/6/2020 11:00	12/6/2020 12:00	874.3
12/6/2020 12:00	12/6/2020 13:00	901.2
12/6/2020 13:00	12/6/2020 14:00	883.3
12/6/2020 14:00	12/6/2020 15:00	884.9
12/6/2020 15:00	12/6/2020 16:00	934.2
12/6/2020 16:00	12/6/2020 17:00	984.5
12/6/2020 17:00	12/6/2020 18:00	1095.3
12/6/2020 18:00	12/6/2020 19:00	1056.6
12/6/2020 19:00	12/6/2020 20:00	1067.1

Start Time	End Time	ANL_MW
12/6/2020 20:00	12/6/2020 21:00	1030.6
12/6/2020 21:00	12/6/2020 22:00	978.3
12/6/2020 22:00	12/6/2020 23:00	893.7
12/6/2020 23:00	12/7/2020 0:00	885.3
12/7/2020 0:00	12/7/2020 1:00	863.7
12/7/2020 1:00	12/7/2020 2:00	827.6
12/7/2020 2:00	12/7/2020 3:00	849.3
12/7/2020 3:00	12/7/2020 4:00	860.9
12/7/2020 4:00	12/7/2020 5:00	888.9
12/7/2020 5:00	12/7/2020 6:00	887.0
12/7/2020 6:00	12/7/2020 7:00	919.2
12/7/2020 7:00	12/7/2020 8:00	1015.1
12/7/2020 8:00	12/7/2020 9:00	1070.8
12/7/2020 9:00	12/7/2020 10:00	1069.8
12/7/2020 10:00	12/7/2020 11:00	1070.1
12/7/2020 11:00	12/7/2020 12:00	1037.9
12/7/2020 12:00	12/7/2020 13:00	1059.1
12/7/2020 13:00	12/7/2020 14:00	1070.4
12/7/2020 14:00	12/7/2020 15:00	1062.9
12/7/2020 15:00	12/7/2020 16:00	1111.8
12/7/2020 16:00	12/7/2020 17:00	1250.5
12/7/2020 17:00	12/7/2020 18:00	1374.9
12/7/2020 18:00	12/7/2020 19:00	1378.3
12/7/2020 19:00	12/7/2020 20:00	1361.9
12/7/2020 20:00	12/7/2020 21:00	1355.8
12/7/2020 21:00	12/7/2020 22:00	1285.9
12/7/2020 22:00	12/7/2020 23:00	1221.3
12/7/2020 23:00	12/8/2020 0:00	1188.1
12/8/2020 0:00	12/8/2020 1:00	1166.4
12/8/2020 1:00	12/8/2020 2:00	1193.1
12/8/2020 2:00	12/8/2020 3:00	1163.0
12/8/2020 3:00	12/8/2020 4:00	1120.0
12/8/2020 4:00	12/8/2020 5:00	1103.6
12/8/2020 5:00	12/8/2020 6:00	1142.0
12/8/2020 6:00	12/8/2020 7:00	1260.3
12/8/2020 7:00	12/8/2020 8:00	1357.8
12/8/2020 8:00	12/8/2020 9:00	1374.4
12/8/2020 9:00	12/8/2020 10:00	1346.2
12/8/2020 10:00	12/8/2020 11:00	1300.8
12/8/2020 11:00	12/8/2020 12:00	1261.1
12/8/2020 12:00	12/8/2020 13:00	1220.8
12/8/2020 13:00	12/8/2020 14:00	1156.3
12/8/2020 14:00	12/8/2020 15:00	1123.3
12/8/2020 15:00	12/8/2020 16:00	1136.8
12/8/2020 16:00	12/8/2020 17:00	1207.3
12/8/2020 17:00	12/8/2020 18:00	1284.9
12/8/2020 18:00	12/8/2020 19:00	1237.8
12/8/2020 19:00	12/8/2020 20:00	1191.6
12/8/2020 20:00	12/8/2020 21:00	1141.1
12/8/2020 21:00	12/8/2020 22:00	1081.2
12/8/2020 22:00	12/8/2020 23:00	1027.8
12/8/2020 23:00	12/9/2020 0:00	1033.3
12/9/2020 0:00	12/9/2020 1:00	1035.6
12/9/2020 1:00	12/9/2020 2:00	998.0
12/9/2020 2:00	12/9/2020 3:00	976.1
12/9/2020 3:00	12/9/2020 4:00	967.2
12/9/2020 4:00	12/9/2020 5:00	982.5
12/9/2020 5:00	12/9/2020 6:00	1057.0
12/9/2020 6:00	12/9/2020 7:00	1214.1
12/9/2020 7:00	12/9/2020 8:00	1334.8
12/9/2020 8:00	12/9/2020 9:00	1393.9
12/9/2020 9:00	12/9/2020 10:00	1398.9
12/9/2020 10:00	12/9/2020 11:00	1392.3
12/9/2020 11:00	12/9/2020 12:00	1388.6
12/9/2020 12:00	12/9/2020 13:00	1394.5
12/9/2020 13:00	12/9/2020 14:00	1379.1
12/9/2020 14:00	12/9/2020 15:00	1376.8
12/9/2020 15:00	12/9/2020 16:00	1435.7
12/9/2020 16:00	12/9/2020 17:00	1495.8
12/9/2020 17:00	12/9/2020 18:00	1575.5

Start Time	End Time	ANL_MW
12/9/2020 18:00	12/9/2020 19:00	1548.3
12/9/2020 19:00	12/9/2020 20:00	1508.6
12/9/2020 20:00	12/9/2020 21:00	1463.3
12/9/2020 21:00	12/9/2020 22:00	1390.7
12/9/2020 22:00	12/9/2020 23:00	1291.8
12/9/2020 23:00	12/10/2020 0:00	1238.3
12/10/2020 0:00	12/10/2020 1:00	1234.7
12/10/2020 1:00	12/10/2020 2:00	1266.8
12/10/2020 2:00	12/10/2020 3:00	1249.8
12/10/2020 3:00	12/10/2020 4:00	1243.8
12/10/2020 4:00	12/10/2020 5:00	1254.5
12/10/2020 5:00	12/10/2020 6:00	1308.2
12/10/2020 6:00	12/10/2020 7:00	1374.3
12/10/2020 7:00	12/10/2020 8:00	1478.8
12/10/2020 8:00	12/10/2020 9:00	1524.5
12/10/2020 9:00	12/10/2020 10:00	1527.8
12/10/2020 10:00	12/10/2020 11:00	1465.1
12/10/2020 11:00	12/10/2020 12:00	1428.2
12/10/2020 12:00	12/10/2020 13:00	1408.4
12/10/2020 13:00	12/10/2020 14:00	1367.5
12/10/2020 14:00	12/10/2020 15:00	1331.1
12/10/2020 15:00	12/10/2020 16:00	1319.8
12/10/2020 16:00	12/10/2020 17:00	1409.6
12/10/2020 17:00	12/10/2020 18:00	1477.8
12/10/2020 18:00	12/10/2020 19:00	1411.2
12/10/2020 19:00	12/10/2020 20:00	1372.1
12/10/2020 20:00	12/10/2020 21:00	1380.2
12/10/2020 21:00	12/10/2020 22:00	1316.5
12/10/2020 22:00	12/10/2020 23:00	1227.1
12/10/2020 23:00	12/11/2020 0:00	1164.9
12/11/2020 0:00	12/11/2020 1:00	1093.6
12/11/2020 1:00	12/11/2020 2:00	1052.6
12/11/2020 2:00	12/11/2020 3:00	1031.3
12/11/2020 3:00	12/11/2020 4:00	1040.1
12/11/2020 4:00	12/11/2020 5:00	1059.3
12/11/2020 5:00	12/11/2020 6:00	1125.4
12/11/2020 6:00	12/11/2020 7:00	1228.6
12/11/2020 7:00	12/11/2020 8:00	1232.7
12/11/2020 8:00	12/11/2020 9:00	1266.6
12/11/2020 9:00	12/11/2020 10:00	1301.6
12/11/2020 10:00	12/11/2020 11:00	1290.8
12/11/2020 11:00	12/11/2020 12:00	1287.4
12/11/2020 12:00	12/11/2020 13:00	1268.8
12/11/2020 13:00	12/11/2020 14:00	1236.2
12/11/2020 14:00	12/11/2020 15:00	1231.0
12/11/2020 15:00	12/11/2020 16:00	1278.1
12/11/2020 16:00	12/11/2020 17:00	1370.6
12/11/2020 17:00	12/11/2020 18:00	1431.6
12/11/2020 18:00	12/11/2020 19:00	1387.4
12/11/2020 19:00	12/11/2020 20:00	1350.9
12/11/2020 20:00	12/11/2020 21:00	1319.5
12/11/2020 21:00	12/11/2020 22:00	1245.8
12/11/2020 22:00	12/11/2020 23:00	1199.3
12/11/2020 23:00	12/12/2020 0:00	1141.9
12/12/2020 0:00	12/12/2020 1:00	1089.8
12/12/2020 1:00	12/12/2020 2:00	1052.5
12/12/2020 2:00	12/12/2020 3:00	1015.8
12/12/2020 3:00	12/12/2020 4:00	1030.0
12/12/2020 4:00	12/12/2020 5:00	1032.1
12/12/2020 5:00	12/12/2020 6:00	1055.9
12/12/2020 6:00	12/12/2020 7:00	1117.9
12/12/2020 7:00	12/12/2020 8:00	1128.2
12/12/2020 8:00	12/12/2020 9:00	1236.0
12/12/2020 9:00	12/12/2020 10:00	1240.6
12/12/2020 10:00	12/12/2020 11:00	1272.6
12/12/2020 11:00	12/12/2020 12:00	1287.9
12/12/2020 12:00	12/12/2020 13:00	1294.4
12/12/2020 13:00	12/12/2020 14:00	1308.9
12/12/2020 14:00	12/12/2020 15:00	1313.2
12/12/2020 15:00	12/12/2020 16:00	1345.4

Start Time	End Time	ANL_MW
12/12/2020 16:00	12/12/2020 17:00	1403.3
12/12/2020 17:00	12/12/2020 18:00	1479.0
12/12/2020 18:00	12/12/2020 19:00	1442.5
12/12/2020 19:00	12/12/2020 20:00	1377.4
12/12/2020 20:00	12/12/2020 21:00	1314.4
12/12/2020 21:00	12/12/2020 22:00	1254.7
12/12/2020 22:00	12/12/2020 23:00	1207.8
12/12/2020 23:00	12/13/2020 0:00	1070.7
12/13/2020 0:00	12/13/2020 1:00	996.2
12/13/2020 1:00	12/13/2020 2:00	919.9
12/13/2020 2:00	12/13/2020 3:00	831.9
12/13/2020 3:00	12/13/2020 4:00	802.3
12/13/2020 4:00	12/13/2020 5:00	778.2
12/13/2020 5:00	12/13/2020 6:00	787.5
12/13/2020 6:00	12/13/2020 7:00	865.7
12/13/2020 7:00	12/13/2020 8:00	956.4
12/13/2020 8:00	12/13/2020 9:00	1074.2
12/13/2020 9:00	12/13/2020 10:00	1193.4
12/13/2020 10:00	12/13/2020 11:00	1269.7
12/13/2020 11:00	12/13/2020 12:00	1317.0
12/13/2020 12:00	12/13/2020 13:00	1305.4
12/13/2020 13:00	12/13/2020 14:00	1253.2
12/13/2020 14:00	12/13/2020 15:00	1264.3
12/13/2020 15:00	12/13/2020 16:00	1289.6
12/13/2020 16:00	12/13/2020 17:00	1339.8
12/13/2020 17:00	12/13/2020 18:00	1386.8
12/13/2020 18:00	12/13/2020 19:00	1320.9
12/13/2020 19:00	12/13/2020 20:00	1205.2
12/13/2020 20:00	12/13/2020 21:00	1129.1
12/13/2020 21:00	12/13/2020 22:00	1094.7
12/13/2020 22:00	12/13/2020 23:00	1072.4
12/13/2020 23:00	12/14/2020 0:00	987.7
12/14/2020 0:00	12/14/2020 1:00	909.3
12/14/2020 1:00	12/14/2020 2:00	893.6
12/14/2020 2:00	12/14/2020 3:00	898.4
12/14/2020 3:00	12/14/2020 4:00	916.1
12/14/2020 4:00	12/14/2020 5:00	980.9
12/14/2020 5:00	12/14/2020 6:00	1060.3
12/14/2020 6:00	12/14/2020 7:00	1145.9
12/14/2020 7:00	12/14/2020 8:00	1274.5
12/14/2020 8:00	12/14/2020 9:00	1299.9
12/14/2020 9:00	12/14/2020 10:00	1331.0
12/14/2020 10:00	12/14/2020 11:00	1340.7
12/14/2020 11:00	12/14/2020 12:00	1377.2
12/14/2020 12:00	12/14/2020 13:00	1390.7
12/14/2020 13:00	12/14/2020 14:00	1397.4
12/14/2020 14:00	12/14/2020 15:00	1403.8
12/14/2020 15:00	12/14/2020 16:00	1445.0
12/14/2020 16:00	12/14/2020 17:00	1472.1
12/14/2020 17:00	12/14/2020 18:00	1542.0
12/14/2020 18:00	12/14/2020 19:00	1494.0
12/14/2020 19:00	12/14/2020 20:00	1455.8
12/14/2020 20:00	12/14/2020 21:00	1406.3
12/14/2020 21:00	12/14/2020 22:00	1354.2
12/14/2020 22:00	12/14/2020 23:00	1308.5
12/14/2020 23:00	12/15/2020 0:00	1253.6
12/15/2020 0:00	12/15/2020 1:00	1198.2
12/15/2020 1:00	12/15/2020 2:00	1125.0
12/15/2020 2:00	12/15/2020 3:00	1064.4
12/15/2020 3:00	12/15/2020 4:00	1041.9
12/15/2020 4:00	12/15/2020 5:00	995.3
12/15/2020 5:00	12/15/2020 6:00	988.8
12/15/2020 6:00	12/15/2020 7:00	1074.1
12/15/2020 7:00	12/15/2020 8:00	1153.1
12/15/2020 8:00	12/15/2020 9:00	1139.3
12/15/2020 9:00	12/15/2020 10:00	1132.5
12/15/2020 10:00	12/15/2020 11:00	1121.7
12/15/2020 11:00	12/15/2020 12:00	1121.8
12/15/2020 12:00	12/15/2020 13:00	1123.3
12/15/2020 13:00	12/15/2020 14:00	1078.4

Start Time	End Time	ANL_MW
12/15/2020 14:00	12/15/2020 15:00	1069.8
12/15/2020 15:00	12/15/2020 16:00	1173.2
12/15/2020 16:00	12/15/2020 17:00	1267.9
12/15/2020 17:00	12/15/2020 18:00	1321.8
12/15/2020 18:00	12/15/2020 19:00	1299.2
12/15/2020 19:00	12/15/2020 20:00	1304.9
12/15/2020 20:00	12/15/2020 21:00	1298.7
12/15/2020 21:00	12/15/2020 22:00	1253.4
12/15/2020 22:00	12/15/2020 23:00	1169.8
12/15/2020 23:00	12/16/2020 0:00	1144.6
12/16/2020 0:00	12/16/2020 1:00	1126.1
12/16/2020 1:00	12/16/2020 2:00	1122.2
12/16/2020 2:00	12/16/2020 3:00	1113.0
12/16/2020 3:00	12/16/2020 4:00	1119.9
12/16/2020 4:00	12/16/2020 5:00	1160.8
12/16/2020 5:00	12/16/2020 6:00	1253.2
12/16/2020 6:00	12/16/2020 7:00	1331.9
12/16/2020 7:00	12/16/2020 8:00	1436.6
12/16/2020 8:00	12/16/2020 9:00	1469.2
12/16/2020 9:00	12/16/2020 10:00	1492.3
12/16/2020 10:00	12/16/2020 11:00	1486.0
12/16/2020 11:00	12/16/2020 12:00	1484.8
12/16/2020 12:00	12/16/2020 13:00	1467.0
12/16/2020 13:00	12/16/2020 14:00	1405.9
12/16/2020 14:00	12/16/2020 15:00	1389.1
12/16/2020 15:00	12/16/2020 16:00	1438.3
12/16/2020 16:00	12/16/2020 17:00	1549.7
12/16/2020 17:00	12/16/2020 18:00	1634.4
12/16/2020 18:00	12/16/2020 19:00	1606.8
12/16/2020 19:00	12/16/2020 20:00	1621.5
12/16/2020 20:00	12/16/2020 21:00	1553.1
12/16/2020 21:00	12/16/2020 22:00	1516.4
12/16/2020 22:00	12/16/2020 23:00	1423.4
12/16/2020 23:00	12/17/2020 0:00	1356.5
12/17/2020 0:00	12/17/2020 1:00	1377.0
12/17/2020 1:00	12/17/2020 2:00	1385.5
12/17/2020 2:00	12/17/2020 3:00	1405.0
12/17/2020 3:00	12/17/2020 4:00	1409.4
12/17/2020 4:00	12/17/2020 5:00	1395.1
12/17/2020 5:00	12/17/2020 6:00	1428.5
12/17/2020 6:00	12/17/2020 7:00	1545.0
12/17/2020 7:00	12/17/2020 8:00	1630.4
12/17/2020 8:00	12/17/2020 9:00	1643.5
12/17/2020 9:00	12/17/2020 10:00	1663.6
12/17/2020 10:00	12/17/2020 11:00	1670.8
12/17/2020 11:00	12/17/2020 12:00	1646.9
12/17/2020 12:00	12/17/2020 13:00	1652.8
12/17/2020 13:00	12/17/2020 14:00	1588.3
12/17/2020 14:00	12/17/2020 15:00	1553.8
12/17/2020 15:00	12/17/2020 16:00	1522.4
12/17/2020 16:00	12/17/2020 17:00	1547.8
12/17/2020 17:00	12/17/2020 18:00	1563.4
12/17/2020 18:00	12/17/2020 19:00	1464.4
12/17/2020 19:00	12/17/2020 20:00	1395.2
12/17/2020 20:00	12/17/2020 21:00	1319.9
12/17/2020 21:00	12/17/2020 22:00	1247.1
12/17/2020 22:00	12/17/2020 23:00	1141.5
12/17/2020 23:00	12/18/2020 0:00	1109.1
12/18/2020 0:00	12/18/2020 1:00	1053.4
12/18/2020 1:00	12/18/2020 2:00	1008.5
12/18/2020 2:00	12/18/2020 3:00	971.9
12/18/2020 3:00	12/18/2020 4:00	954.1
12/18/2020 4:00	12/18/2020 5:00	961.9
12/18/2020 5:00	12/18/2020 6:00	993.3
12/18/2020 6:00	12/18/2020 7:00	1092.0
12/18/2020 7:00	12/18/2020 8:00	1184.8
12/18/2020 8:00	12/18/2020 9:00	1223.1
12/18/2020 9:00	12/18/2020 10:00	1228.3
12/18/2020 10:00	12/18/2020 11:00	1174.2
12/18/2020 11:00	12/18/2020 12:00	1168.9

Start Time	End Time	ANL_MW
12/18/2020 12:00	12/18/2020 13:00	1161.7
12/18/2020 13:00	12/18/2020 14:00	1130.1
12/18/2020 14:00	12/18/2020 15:00	1126.5
12/18/2020 15:00	12/18/2020 16:00	1132.2
12/18/2020 16:00	12/18/2020 17:00	1197.3
12/18/2020 17:00	12/18/2020 18:00	1252.3
12/18/2020 18:00	12/18/2020 19:00	1184.0
12/18/2020 19:00	12/18/2020 20:00	1136.3
12/18/2020 20:00	12/18/2020 21:00	1156.1
12/18/2020 21:00	12/18/2020 22:00	1105.1
12/18/2020 22:00	12/18/2020 23:00	1017.5
12/18/2020 23:00	12/19/2020 0:00	1023.9
12/19/2020 0:00	12/19/2020 1:00	990.5
12/19/2020 1:00	12/19/2020 2:00	965.9
12/19/2020 2:00	12/19/2020 3:00	971.3
12/19/2020 3:00	12/19/2020 4:00	913.0
12/19/2020 4:00	12/19/2020 5:00	951.1
12/19/2020 5:00	12/19/2020 6:00	983.5
12/19/2020 6:00	12/19/2020 7:00	1069.3
12/19/2020 7:00	12/19/2020 8:00	1205.2
12/19/2020 8:00	12/19/2020 9:00	1263.8
12/19/2020 9:00	12/19/2020 10:00	1365.3
12/19/2020 10:00	12/19/2020 11:00	1421.8
12/19/2020 11:00	12/19/2020 12:00	1367.0
12/19/2020 12:00	12/19/2020 13:00	1355.0
12/19/2020 13:00	12/19/2020 14:00	1327.1
12/19/2020 14:00	12/19/2020 15:00	1336.6
12/19/2020 15:00	12/19/2020 16:00	1382.7
12/19/2020 16:00	12/19/2020 17:00	1492.8
12/19/2020 17:00	12/19/2020 18:00	1602.6
12/19/2020 18:00	12/19/2020 19:00	1572.7
12/19/2020 19:00	12/19/2020 20:00	1538.0
12/19/2020 20:00	12/19/2020 21:00	1499.2
12/19/2020 21:00	12/19/2020 22:00	1449.6
12/19/2020 22:00	12/19/2020 23:00	1411.5
12/19/2020 23:00	12/20/2020 0:00	1365.3
12/20/2020 0:00	12/20/2020 1:00	1312.0
12/20/2020 1:00	12/20/2020 2:00	1276.4
12/20/2020 2:00	12/20/2020 3:00	1251.9
12/20/2020 3:00	12/20/2020 4:00	1244.0
12/20/2020 4:00	12/20/2020 5:00	1242.2
12/20/2020 5:00	12/20/2020 6:00	1222.7
12/20/2020 6:00	12/20/2020 7:00	1225.5
12/20/2020 7:00	12/20/2020 8:00	1273.8
12/20/2020 8:00	12/20/2020 9:00	1363.0
12/20/2020 9:00	12/20/2020 10:00	1438.5
12/20/2020 10:00	12/20/2020 11:00	1475.2
12/20/2020 11:00	12/20/2020 12:00	1461.1
12/20/2020 12:00	12/20/2020 13:00	1431.1
12/20/2020 13:00	12/20/2020 14:00	1378.1
12/20/2020 14:00	12/20/2020 15:00	1359.8
12/20/2020 15:00	12/20/2020 16:00	1392.7
12/20/2020 16:00	12/20/2020 17:00	1480.6
12/20/2020 17:00	12/20/2020 18:00	1537.3
12/20/2020 18:00	12/20/2020 19:00	1451.1
12/20/2020 19:00	12/20/2020 20:00	1367.6
12/20/2020 20:00	12/20/2020 21:00	1333.5
12/20/2020 21:00	12/20/2020 22:00	1275.8
12/20/2020 22:00	12/20/2020 23:00	1215.8
12/20/2020 23:00	12/21/2020 0:00	1122.0
12/21/2020 0:00	12/21/2020 1:00	1035.9
12/21/2020 1:00	12/21/2020 2:00	1009.6
12/21/2020 2:00	12/21/2020 3:00	960.4
12/21/2020 3:00	12/21/2020 4:00	921.4
12/21/2020 4:00	12/21/2020 5:00	936.7
12/21/2020 5:00	12/21/2020 6:00	1014.7
12/21/2020 6:00	12/21/2020 7:00	1024.3
12/21/2020 7:00	12/21/2020 8:00	1120.8
12/21/2020 8:00	12/21/2020 9:00	1200.0
12/21/2020 9:00	12/21/2020 10:00	1265.0

Start Time	End Time	ANL_MW
12/21/2020 10:00	12/21/2020 11:00	1320.3
12/21/2020 11:00	12/21/2020 12:00	1345.0
12/21/2020 12:00	12/21/2020 13:00	1355.1
12/21/2020 13:00	12/21/2020 14:00	1346.9
12/21/2020 14:00	12/21/2020 15:00	1315.0
12/21/2020 15:00	12/21/2020 16:00	1266.2
12/21/2020 16:00	12/21/2020 17:00	1316.2
12/21/2020 17:00	12/21/2020 18:00	1397.7
12/21/2020 18:00	12/21/2020 19:00	1336.9
12/21/2020 19:00	12/21/2020 20:00	1274.6
12/21/2020 20:00	12/21/2020 21:00	1182.7
12/21/2020 21:00	12/21/2020 22:00	1070.6
12/21/2020 22:00	12/21/2020 23:00	1003.2
12/21/2020 23:00	12/22/2020 0:00	1014.5
12/22/2020 0:00	12/22/2020 1:00	985.5
12/22/2020 1:00	12/22/2020 2:00	923.1
12/22/2020 2:00	12/22/2020 3:00	852.7
12/22/2020 3:00	12/22/2020 4:00	873.7
12/22/2020 4:00	12/22/2020 5:00	873.1
12/22/2020 5:00	12/22/2020 6:00	894.5
12/22/2020 6:00	12/22/2020 7:00	959.9
12/22/2020 7:00	12/22/2020 8:00	1040.0
12/22/2020 8:00	12/22/2020 9:00	1058.2
12/22/2020 9:00	12/22/2020 10:00	1094.3
12/22/2020 10:00	12/22/2020 11:00	1109.8
12/22/2020 11:00	12/22/2020 12:00	1152.4
12/22/2020 12:00	12/22/2020 13:00	1141.8
12/22/2020 13:00	12/22/2020 14:00	1094.7
12/22/2020 14:00	12/22/2020 15:00	1045.2
12/22/2020 15:00	12/22/2020 16:00	1086.3
12/22/2020 16:00	12/22/2020 17:00	1147.4
12/22/2020 17:00	12/22/2020 18:00	1244.9
12/22/2020 18:00	12/22/2020 19:00	1215.8
12/22/2020 19:00	12/22/2020 20:00	1192.5
12/22/2020 20:00	12/22/2020 21:00	1159.4
12/22/2020 21:00	12/22/2020 22:00	1165.6
12/22/2020 22:00	12/22/2020 23:00	1086.9
12/22/2020 23:00	12/23/2020 0:00	1060.0
12/23/2020 0:00	12/23/2020 1:00	1018.9
12/23/2020 1:00	12/23/2020 2:00	930.8
12/23/2020 2:00	12/23/2020 3:00	909.2
12/23/2020 3:00	12/23/2020 4:00	909.3
12/23/2020 4:00	12/23/2020 5:00	926.7
12/23/2020 5:00	12/23/2020 6:00	975.6
12/23/2020 6:00	12/23/2020 7:00	1071.7
12/23/2020 7:00	12/23/2020 8:00	1071.4
12/23/2020 8:00	12/23/2020 9:00	1119.2
12/23/2020 9:00	12/23/2020 10:00	1144.3
12/23/2020 10:00	12/23/2020 11:00	1155.8
12/23/2020 11:00	12/23/2020 12:00	1147.7
12/23/2020 12:00	12/23/2020 13:00	1180.2
12/23/2020 13:00	12/23/2020 14:00	1158.3
12/23/2020 14:00	12/23/2020 15:00	1163.9
12/23/2020 15:00	12/23/2020 16:00	1154.7
12/23/2020 16:00	12/23/2020 17:00	1301.5
12/23/2020 17:00	12/23/2020 18:00	1433.6
12/23/2020 18:00	12/23/2020 19:00	1445.4
12/23/2020 19:00	12/23/2020 20:00	1443.6
12/23/2020 20:00	12/23/2020 21:00	1444.1
12/23/2020 21:00	12/23/2020 22:00	1448.0
12/23/2020 22:00	12/23/2020 23:00	1439.3
12/23/2020 23:00	12/24/2020 0:00	1421.9
12/24/2020 0:00	12/24/2020 1:00	1397.6
12/24/2020 1:00	12/24/2020 2:00	1405.2
12/24/2020 2:00	12/24/2020 3:00	1362.6
12/24/2020 3:00	12/24/2020 4:00	1288.6
12/24/2020 4:00	12/24/2020 5:00	1238.1
12/24/2020 5:00	12/24/2020 6:00	1205.0
12/24/2020 6:00	12/24/2020 7:00	1233.2
12/24/2020 7:00	12/24/2020 8:00	1226.7

Start Time	End Time	ANL_MW
12/24/2020 8:00	12/24/2020 9:00	1231.3
12/24/2020 9:00	12/24/2020 10:00	1249.4
12/24/2020 10:00	12/24/2020 11:00	1254.4
12/24/2020 11:00	12/24/2020 12:00	1206.4
12/24/2020 12:00	12/24/2020 13:00	1121.6
12/24/2020 13:00	12/24/2020 14:00	1079.1
12/24/2020 14:00	12/24/2020 15:00	1065.3
12/24/2020 15:00	12/24/2020 16:00	1101.4
12/24/2020 16:00	12/24/2020 17:00	1131.3
12/24/2020 17:00	12/24/2020 18:00	1122.0
12/24/2020 18:00	12/24/2020 19:00	1004.5
12/24/2020 19:00	12/24/2020 20:00	932.6
12/24/2020 20:00	12/24/2020 21:00	888.8
12/24/2020 21:00	12/24/2020 22:00	836.8
12/24/2020 22:00	12/24/2020 23:00	761.1
12/24/2020 23:00	12/25/2020 0:00	709.5
12/25/2020 0:00	12/25/2020 1:00	672.9
12/25/2020 1:00	12/25/2020 2:00	609.8
12/25/2020 2:00	12/25/2020 3:00	595.1
12/25/2020 3:00	12/25/2020 4:00	594.1
12/25/2020 4:00	12/25/2020 5:00	604.5
12/25/2020 5:00	12/25/2020 6:00	629.5
12/25/2020 6:00	12/25/2020 7:00	630.8
12/25/2020 7:00	12/25/2020 8:00	759.2
12/25/2020 8:00	12/25/2020 9:00	806.5
12/25/2020 9:00	12/25/2020 10:00	819.6
12/25/2020 10:00	12/25/2020 11:00	815.8
12/25/2020 11:00	12/25/2020 12:00	836.7
12/25/2020 12:00	12/25/2020 13:00	836.6
12/25/2020 13:00	12/25/2020 14:00	805.3
12/25/2020 14:00	12/25/2020 15:00	782.8
12/25/2020 15:00	12/25/2020 16:00	805.8
12/25/2020 16:00	12/25/2020 17:00	825.8
12/25/2020 17:00	12/25/2020 18:00	825.7
12/25/2020 18:00	12/25/2020 19:00	784.3
12/25/2020 19:00	12/25/2020 20:00	759.2
12/25/2020 20:00	12/25/2020 21:00	728.7
12/25/2020 21:00	12/25/2020 22:00	703.7
12/25/2020 22:00	12/25/2020 23:00	667.7
12/25/2020 23:00	12/26/2020 0:00	621.5
12/26/2020 0:00	12/26/2020 1:00	581.6
12/26/2020 1:00	12/26/2020 2:00	579.6
12/26/2020 2:00	12/26/2020 3:00	583.1
12/26/2020 3:00	12/26/2020 4:00	572.9
12/26/2020 4:00	12/26/2020 5:00	582.4
12/26/2020 5:00	12/26/2020 6:00	604.0
12/26/2020 6:00	12/26/2020 7:00	651.5
12/26/2020 7:00	12/26/2020 8:00	745.7
12/26/2020 8:00	12/26/2020 9:00	757.0
12/26/2020 9:00	12/26/2020 10:00	771.3
12/26/2020 10:00	12/26/2020 11:00	791.4
12/26/2020 11:00	12/26/2020 12:00	792.6
12/26/2020 12:00	12/26/2020 13:00	813.9
12/26/2020 13:00	12/26/2020 14:00	817.5
12/26/2020 14:00	12/26/2020 15:00	868.0
12/26/2020 15:00	12/26/2020 16:00	928.4
12/26/2020 16:00	12/26/2020 17:00	1001.5
12/26/2020 17:00	12/26/2020 18:00	1173.1
12/26/2020 18:00	12/26/2020 19:00	1127.9
12/26/2020 19:00	12/26/2020 20:00	1005.4
12/26/2020 20:00	12/26/2020 21:00	930.6
12/26/2020 21:00	12/26/2020 22:00	891.9
12/26/2020 22:00	12/26/2020 23:00	873.3
12/26/2020 23:00	12/27/2020 0:00	847.0
12/27/2020 0:00	12/27/2020 1:00	811.2
12/27/2020 1:00	12/27/2020 2:00	796.6
12/27/2020 2:00	12/27/2020 3:00	800.7
12/27/2020 3:00	12/27/2020 4:00	808.2
12/27/2020 4:00	12/27/2020 5:00	821.1
12/27/2020 5:00	12/27/2020 6:00	862.7

Start Time	End Time	ANL_MW
12/27/2020 6:00	12/27/2020 7:00	843.7
12/27/2020 7:00	12/27/2020 8:00	933.9
12/27/2020 8:00	12/27/2020 9:00	1079.1
12/27/2020 9:00	12/27/2020 10:00	1168.5
12/27/2020 10:00	12/27/2020 11:00	1213.3
12/27/2020 11:00	12/27/2020 12:00	1207.4
12/27/2020 12:00	12/27/2020 13:00	1210.0
12/27/2020 13:00	12/27/2020 14:00	1195.3
12/27/2020 14:00	12/27/2020 15:00	1183.1
12/27/2020 15:00	12/27/2020 16:00	1206.5
12/27/2020 16:00	12/27/2020 17:00	1357.1
12/27/2020 17:00	12/27/2020 18:00	1418.2
12/27/2020 18:00	12/27/2020 19:00	1402.3
12/27/2020 19:00	12/27/2020 20:00	1397.1
12/27/2020 20:00	12/27/2020 21:00	1387.7
12/27/2020 21:00	12/27/2020 22:00	1381.6
12/27/2020 22:00	12/27/2020 23:00	1351.5
12/27/2020 23:00	12/28/2020 0:00	1321.5
12/28/2020 0:00	12/28/2020 1:00	1284.6
12/28/2020 1:00	12/28/2020 2:00	1281.1
12/28/2020 2:00	12/28/2020 3:00	1278.3
12/28/2020 3:00	12/28/2020 4:00	1288.1
12/28/2020 4:00	12/28/2020 5:00	1303.0
12/28/2020 5:00	12/28/2020 6:00	1340.2
12/28/2020 6:00	12/28/2020 7:00	1313.5
12/28/2020 7:00	12/28/2020 8:00	1365.2
12/28/2020 8:00	12/28/2020 9:00	1400.1
12/28/2020 9:00	12/28/2020 10:00	1390.5
12/28/2020 10:00	12/28/2020 11:00	1379.3
12/28/2020 11:00	12/28/2020 12:00	1377.4
12/28/2020 12:00	12/28/2020 13:00	1381.6
12/28/2020 13:00	12/28/2020 14:00	1341.2
12/28/2020 14:00	12/28/2020 15:00	1304.7
12/28/2020 15:00	12/28/2020 16:00	1286.9
12/28/2020 16:00	12/28/2020 17:00	1330.6
12/28/2020 17:00	12/28/2020 18:00	1310.8
12/28/2020 18:00	12/28/2020 19:00	1185.9
12/28/2020 19:00	12/28/2020 20:00	1133.7
12/28/2020 20:00	12/28/2020 21:00	1072.4
12/28/2020 21:00	12/28/2020 22:00	1007.0
12/28/2020 22:00	12/28/2020 23:00	981.4
12/28/2020 23:00	12/29/2020 0:00	901.3
12/29/2020 0:00	12/29/2020 1:00	860.3
12/29/2020 1:00	12/29/2020 2:00	822.0
12/29/2020 2:00	12/29/2020 3:00	831.1
12/29/2020 3:00	12/29/2020 4:00	842.3
12/29/2020 4:00	12/29/2020 5:00	831.8
12/29/2020 5:00	12/29/2020 6:00	861.9
12/29/2020 6:00	12/29/2020 7:00	896.8
12/29/2020 7:00	12/29/2020 8:00	989.0
12/29/2020 8:00	12/29/2020 9:00	1068.9
12/29/2020 9:00	12/29/2020 10:00	1119.0
12/29/2020 10:00	12/29/2020 11:00	1143.2
12/29/2020 11:00	12/29/2020 12:00	1155.0
12/29/2020 12:00	12/29/2020 13:00	1171.7
12/29/2020 13:00	12/29/2020 14:00	1166.3
12/29/2020 14:00	12/29/2020 15:00	1134.3
12/29/2020 15:00	12/29/2020 16:00	1145.3
12/29/2020 16:00	12/29/2020 17:00	1174.2
12/29/2020 17:00	12/29/2020 18:00	1231.3
12/29/2020 18:00	12/29/2020 19:00	1155.2
12/29/2020 19:00	12/29/2020 20:00	1096.8
12/29/2020 20:00	12/29/2020 21:00	1048.2
12/29/2020 21:00	12/29/2020 22:00	1019.8
12/29/2020 22:00	12/29/2020 23:00	1014.0
12/29/2020 23:00	12/30/2020 0:00	1005.2
12/30/2020 0:00	12/30/2020 1:00	1001.8
12/30/2020 1:00	12/30/2020 2:00	984.1
12/30/2020 2:00	12/30/2020 3:00	953.5
12/30/2020 3:00	12/30/2020 4:00	942.9

Start Time	End Time	ANL_MW
12/30/2020 4:00	12/30/2020 5:00	971.5
12/30/2020 5:00	12/30/2020 6:00	974.7
12/30/2020 6:00	12/30/2020 7:00	1091.4
12/30/2020 7:00	12/30/2020 8:00	1181.3
12/30/2020 8:00	12/30/2020 9:00	1229.3
12/30/2020 9:00	12/30/2020 10:00	1221.2
12/30/2020 10:00	12/30/2020 11:00	1180.7
12/30/2020 11:00	12/30/2020 12:00	1184.6
12/30/2020 12:00	12/30/2020 13:00	1219.8
12/30/2020 13:00	12/30/2020 14:00	1202.3
12/30/2020 14:00	12/30/2020 15:00	1244.4
12/30/2020 15:00	12/30/2020 16:00	1315.4
12/30/2020 16:00	12/30/2020 17:00	1434.8
12/30/2020 17:00	12/30/2020 18:00	1568.8
12/30/2020 18:00	12/30/2020 19:00	1541.1
12/30/2020 19:00	12/30/2020 20:00	1523.9
12/30/2020 20:00	12/30/2020 21:00	1496.9
12/30/2020 21:00	12/30/2020 22:00	1449.7
12/30/2020 22:00	12/30/2020 23:00	1256.6
12/30/2020 23:00	12/31/2020 0:00	1126.1
12/31/2020 0:00	12/31/2020 1:00	1023.5
12/31/2020 1:00	12/31/2020 2:00	919.3
12/31/2020 2:00	12/31/2020 3:00	872.9
12/31/2020 3:00	12/31/2020 4:00	811.0
12/31/2020 4:00	12/31/2020 5:00	790.5
12/31/2020 5:00	12/31/2020 6:00	798.2
12/31/2020 6:00	12/31/2020 7:00	821.7
12/31/2020 7:00	12/31/2020 8:00	854.2
12/31/2020 8:00	12/31/2020 9:00	900.5
12/31/2020 9:00	12/31/2020 10:00	950.6
12/31/2020 10:00	12/31/2020 11:00	1007.3
12/31/2020 11:00	12/31/2020 12:00	989.3
12/31/2020 12:00	12/31/2020 13:00	1091.2
12/31/2020 13:00	12/31/2020 14:00	1120.5
12/31/2020 14:00	12/31/2020 15:00	1124.2
12/31/2020 15:00	12/31/2020 16:00	1118.6
12/31/2020 16:00	12/31/2020 17:00	1181.3
12/31/2020 17:00	12/31/2020 18:00	1288.5
12/31/2020 18:00	12/31/2020 19:00	1245.4
12/31/2020 19:00	12/31/2020 20:00	1185.9
12/31/2020 20:00	12/31/2020 21:00	1122.6
12/31/2020 21:00	12/31/2020 22:00	1004.2
12/31/2020 22:00	12/31/2020 23:00	974.1
12/31/2020 23:00	1/1/2021 0:00	937.4
1/1/2021 0:00	1/1/2021 1:00	927.0
1/1/2021 1:00	1/1/2021 2:00	891.7
1/1/2021 2:00	1/1/2021 3:00	898.5
1/1/2021 3:00	1/1/2021 4:00	870.7
1/1/2021 4:00	1/1/2021 5:00	905.0
1/1/2021 5:00	1/1/2021 6:00	912.9
1/1/2021 6:00	1/1/2021 7:00	948.4
1/1/2021 7:00	1/1/2021 8:00	1035.7
1/1/2021 8:00	1/1/2021 9:00	1146.7
1/1/2021 9:00	1/1/2021 10:00	1222.2
1/1/2021 10:00	1/1/2021 11:00	1278.9
1/1/2021 11:00	1/1/2021 12:00	1320.5
1/1/2021 12:00	1/1/2021 13:00	1325.3
1/1/2021 13:00	1/1/2021 14:00	1295.7
1/1/2021 14:00	1/1/2021 15:00	1278.6
1/1/2021 15:00	1/1/2021 16:00	1284.9
1/1/2021 16:00	1/1/2021 17:00	1400.7
1/1/2021 17:00	1/1/2021 18:00	1500.0
1/1/2021 18:00	1/1/2021 19:00	1444.9
1/1/2021 19:00	1/1/2021 20:00	1427.0
1/1/2021 20:00	1/1/2021 21:00	1368.2
1/1/2021 21:00	1/1/2021 22:00	1336.8
1/1/2021 22:00	1/1/2021 23:00	1315.3
1/1/2021 23:00	1/2/2021 0:00	1305.2
1/2/2021 0:00	1/2/2021 1:00	1301.3
1/2/2021 1:00	1/2/2021 2:00	1287.4

Start Time	End Time	ANL_MW
1/2/2021 2:00	1/2/2021 3:00	1274.3
1/2/2021 3:00	1/2/2021 4:00	1273.9
1/2/2021 4:00	1/2/2021 5:00	1274.4
1/2/2021 5:00	1/2/2021 6:00	1283.2
1/2/2021 6:00	1/2/2021 7:00	1325.9
1/2/2021 7:00	1/2/2021 8:00	1374.3
1/2/2021 8:00	1/2/2021 9:00	1417.5
1/2/2021 9:00	1/2/2021 10:00	1442.1
1/2/2021 10:00	1/2/2021 11:00	1439.8
1/2/2021 11:00	1/2/2021 12:00	1390.6
1/2/2021 12:00	1/2/2021 13:00	1351.4
1/2/2021 13:00	1/2/2021 14:00	1388.9
1/2/2021 14:00	1/2/2021 15:00	1331.7
1/2/2021 15:00	1/2/2021 16:00	1286.7
1/2/2021 16:00	1/2/2021 17:00	1337.6
1/2/2021 17:00	1/2/2021 18:00	1310.5
1/2/2021 18:00	1/2/2021 19:00	1249.2
1/2/2021 19:00	1/2/2021 20:00	1202.0
1/2/2021 20:00	1/2/2021 21:00	1187.4
1/2/2021 21:00	1/2/2021 22:00	1116.6
1/2/2021 22:00	1/2/2021 23:00	1004.8
1/2/2021 23:00	1/3/2021 0:00	922.0
1/3/2021 0:00	1/3/2021 1:00	861.0
1/3/2021 1:00	1/3/2021 2:00	875.5
1/3/2021 2:00	1/3/2021 3:00	860.0
1/3/2021 3:00	1/3/2021 4:00	871.9
1/3/2021 4:00	1/3/2021 5:00	888.4
1/3/2021 5:00	1/3/2021 6:00	909.3
1/3/2021 6:00	1/3/2021 7:00	964.1
1/3/2021 7:00	1/3/2021 8:00	1054.1
1/3/2021 8:00	1/3/2021 9:00	1164.8
1/3/2021 9:00	1/3/2021 10:00	1204.5
1/3/2021 10:00	1/3/2021 11:00	1300.8
1/3/2021 11:00	1/3/2021 12:00	1377.4
1/3/2021 12:00	1/3/2021 13:00	1441.9
1/3/2021 13:00	1/3/2021 14:00	1497.0
1/3/2021 14:00	1/3/2021 15:00	1453.9
1/3/2021 15:00	1/3/2021 16:00	1446.8
1/3/2021 16:00	1/3/2021 17:00	1476.9
1/3/2021 17:00	1/3/2021 18:00	1569.5
1/3/2021 18:00	1/3/2021 19:00	1544.4
1/3/2021 19:00	1/3/2021 20:00	1535.0
1/3/2021 20:00	1/3/2021 21:00	1502.4
1/3/2021 21:00	1/3/2021 22:00	1474.8
1/3/2021 22:00	1/3/2021 23:00	1421.4
1/3/2021 23:00	1/4/2021 0:00	1348.3
1/4/2021 0:00	1/4/2021 1:00	1288.3
1/4/2021 1:00	1/4/2021 2:00	1250.2
1/4/2021 2:00	1/4/2021 3:00	1229.9
1/4/2021 3:00	1/4/2021 4:00	1215.3
1/4/2021 4:00	1/4/2021 5:00	1218.9
1/4/2021 5:00	1/4/2021 6:00	1271.3
1/4/2021 6:00	1/4/2021 7:00	1361.4
1/4/2021 7:00	1/4/2021 8:00	1442.2
1/4/2021 8:00	1/4/2021 9:00	1461.0
1/4/2021 9:00	1/4/2021 10:00	1491.7
1/4/2021 10:00	1/4/2021 11:00	1498.3
1/4/2021 11:00	1/4/2021 12:00	1492.8
1/4/2021 12:00	1/4/2021 13:00	1474.8
1/4/2021 13:00	1/4/2021 14:00	1420.8
1/4/2021 14:00	1/4/2021 15:00	1350.8
1/4/2021 15:00	1/4/2021 16:00	1312.3
1/4/2021 16:00	1/4/2021 17:00	1345.6
1/4/2021 17:00	1/4/2021 18:00	1401.1
1/4/2021 18:00	1/4/2021 19:00	1333.4
1/4/2021 19:00	1/4/2021 20:00	1256.4
1/4/2021 20:00	1/4/2021 21:00	1208.5
1/4/2021 21:00	1/4/2021 22:00	1160.5
1/4/2021 22:00	1/4/2021 23:00	1143.1
1/4/2021 23:00	1/5/2021 0:00	1102.8

Start Time	End Time	ANL_MW
1/5/2021 0:00	1/5/2021 1:00	1072.4
1/5/2021 1:00	1/5/2021 2:00	1024.6
1/5/2021 2:00	1/5/2021 3:00	986.0
1/5/2021 3:00	1/5/2021 4:00	987.7
1/5/2021 4:00	1/5/2021 5:00	992.0
1/5/2021 5:00	1/5/2021 6:00	1045.7
1/5/2021 6:00	1/5/2021 7:00	1137.8
1/5/2021 7:00	1/5/2021 8:00	1210.3
1/5/2021 8:00	1/5/2021 9:00	1264.5
1/5/2021 9:00	1/5/2021 10:00	1312.0
1/5/2021 10:00	1/5/2021 11:00	1343.3
1/5/2021 11:00	1/5/2021 12:00	1336.6
1/5/2021 12:00	1/5/2021 13:00	1387.0
1/5/2021 13:00	1/5/2021 14:00	1335.6
1/5/2021 14:00	1/5/2021 15:00	1196.6
1/5/2021 15:00	1/5/2021 16:00	1204.0
1/5/2021 16:00	1/5/2021 17:00	1248.3
1/5/2021 17:00	1/5/2021 18:00	1298.1
1/5/2021 18:00	1/5/2021 19:00	1237.4
1/5/2021 19:00	1/5/2021 20:00	1186.7
1/5/2021 20:00	1/5/2021 21:00	1182.3
1/5/2021 21:00	1/5/2021 22:00	1147.9
1/5/2021 22:00	1/5/2021 23:00	1083.6
1/5/2021 23:00	1/6/2021 0:00	1049.1
1/6/2021 0:00	1/6/2021 1:00	1039.5
1/6/2021 1:00	1/6/2021 2:00	1011.2
1/6/2021 2:00	1/6/2021 3:00	994.7
1/6/2021 3:00	1/6/2021 4:00	987.0
1/6/2021 4:00	1/6/2021 5:00	1003.4
1/6/2021 5:00	1/6/2021 6:00	1061.1
1/6/2021 6:00	1/6/2021 7:00	1171.0
1/6/2021 7:00	1/6/2021 8:00	1202.4
1/6/2021 8:00	1/6/2021 9:00	1258.9
1/6/2021 9:00	1/6/2021 10:00	1280.8
1/6/2021 10:00	1/6/2021 11:00	1282.4
1/6/2021 11:00	1/6/2021 12:00	1272.7
1/6/2021 12:00	1/6/2021 13:00	1271.3
1/6/2021 13:00	1/6/2021 14:00	1238.2
1/6/2021 14:00	1/6/2021 15:00	1207.1
1/6/2021 15:00	1/6/2021 16:00	1221.7
1/6/2021 16:00	1/6/2021 17:00	1238.1
1/6/2021 17:00	1/6/2021 18:00	1319.7
1/6/2021 18:00	1/6/2021 19:00	1287.7
1/6/2021 19:00	1/6/2021 20:00	1241.2
1/6/2021 20:00	1/6/2021 21:00	1231.3
1/6/2021 21:00	1/6/2021 22:00	1163.7
1/6/2021 22:00	1/6/2021 23:00	1136.3
1/6/2021 23:00	1/7/2021 0:00	1111.9
1/7/2021 0:00	1/7/2021 1:00	1081.9
1/7/2021 1:00	1/7/2021 2:00	1037.6
1/7/2021 2:00	1/7/2021 3:00	991.8
1/7/2021 3:00	1/7/2021 4:00	976.9
1/7/2021 4:00	1/7/2021 5:00	974.6
1/7/2021 5:00	1/7/2021 6:00	1009.3
1/7/2021 6:00	1/7/2021 7:00	1125.9
1/7/2021 7:00	1/7/2021 8:00	1246.1
1/7/2021 8:00	1/7/2021 9:00	1237.1
1/7/2021 9:00	1/7/2021 10:00	1273.0
1/7/2021 10:00	1/7/2021 11:00	1278.0
1/7/2021 11:00	1/7/2021 12:00	1276.7
1/7/2021 12:00	1/7/2021 13:00	1302.7
1/7/2021 13:00	1/7/2021 14:00	1281.9
1/7/2021 14:00	1/7/2021 15:00	1284.8
1/7/2021 15:00	1/7/2021 16:00	1228.8
1/7/2021 16:00	1/7/2021 17:00	1283.2
1/7/2021 17:00	1/7/2021 18:00	1361.7
1/7/2021 18:00	1/7/2021 19:00	1313.3
1/7/2021 19:00	1/7/2021 20:00	1266.4
1/7/2021 20:00	1/7/2021 21:00	1279.7
1/7/2021 21:00	1/7/2021 22:00	1208.9

Start Time	End Time	ANL_MW
1/7/2021 22:00	1/7/2021 23:00	1110.5
1/7/2021 23:00	1/8/2021 0:00	1085.5
1/8/2021 0:00	1/8/2021 1:00	1128.2
1/8/2021 1:00	1/8/2021 2:00	1101.4
1/8/2021 2:00	1/8/2021 3:00	1068.3
1/8/2021 3:00	1/8/2021 4:00	1077.0
1/8/2021 4:00	1/8/2021 5:00	1117.3
1/8/2021 5:00	1/8/2021 6:00	1090.7
1/8/2021 6:00	1/8/2021 7:00	1204.7
1/8/2021 7:00	1/8/2021 8:00	1320.1
1/8/2021 8:00	1/8/2021 9:00	1376.8
1/8/2021 9:00	1/8/2021 10:00	1435.4
1/8/2021 10:00	1/8/2021 11:00	1434.8
1/8/2021 11:00	1/8/2021 12:00	1452.9
1/8/2021 12:00	1/8/2021 13:00	1452.9
1/8/2021 13:00	1/8/2021 14:00	1449.8
1/8/2021 14:00	1/8/2021 15:00	1451.4
1/8/2021 15:00	1/8/2021 16:00	1457.1
1/8/2021 16:00	1/8/2021 17:00	1496.9
1/8/2021 17:00	1/8/2021 18:00	1578.4
1/8/2021 18:00	1/8/2021 19:00	1538.1
1/8/2021 19:00	1/8/2021 20:00	1513.6
1/8/2021 20:00	1/8/2021 21:00	1466.9
1/8/2021 21:00	1/8/2021 22:00	1412.1
1/8/2021 22:00	1/8/2021 23:00	1346.6
1/8/2021 23:00	1/9/2021 0:00	1334.0
1/9/2021 0:00	1/9/2021 1:00	1297.2
1/9/2021 1:00	1/9/2021 2:00	1264.9
1/9/2021 2:00	1/9/2021 3:00	1234.7
1/9/2021 3:00	1/9/2021 4:00	1224.6
1/9/2021 4:00	1/9/2021 5:00	1234.3
1/9/2021 5:00	1/9/2021 6:00	1267.4
1/9/2021 6:00	1/9/2021 7:00	1318.0
1/9/2021 7:00	1/9/2021 8:00	1384.0
1/9/2021 8:00	1/9/2021 9:00	1442.0
1/9/2021 9:00	1/9/2021 10:00	1492.5
1/9/2021 10:00	1/9/2021 11:00	1479.1
1/9/2021 11:00	1/9/2021 12:00	1455.4
1/9/2021 12:00	1/9/2021 13:00	1407.2
1/9/2021 13:00	1/9/2021 14:00	1385.1
1/9/2021 14:00	1/9/2021 15:00	1344.7
1/9/2021 15:00	1/9/2021 16:00	1332.0
1/9/2021 16:00	1/9/2021 17:00	1400.3
1/9/2021 17:00	1/9/2021 18:00	1476.2
1/9/2021 18:00	1/9/2021 19:00	1400.0
1/9/2021 19:00	1/9/2021 20:00	1345.5
1/9/2021 20:00	1/9/2021 21:00	1297.8
1/9/2021 21:00	1/9/2021 22:00	1216.3
1/9/2021 22:00	1/9/2021 23:00	1142.9
1/9/2021 23:00	1/10/2021 0:00	1084.8
1/10/2021 0:00	1/10/2021 1:00	1030.8
1/10/2021 1:00	1/10/2021 2:00	964.9
1/10/2021 2:00	1/10/2021 3:00	937.5
1/10/2021 3:00	1/10/2021 4:00	915.0
1/10/2021 4:00	1/10/2021 5:00	900.7
1/10/2021 5:00	1/10/2021 6:00	920.8
1/10/2021 6:00	1/10/2021 7:00	946.2
1/10/2021 7:00	1/10/2021 8:00	994.6
1/10/2021 8:00	1/10/2021 9:00	1075.1
1/10/2021 9:00	1/10/2021 10:00	1158.4
1/10/2021 10:00	1/10/2021 11:00	1188.3
1/10/2021 11:00	1/10/2021 12:00	1250.7
1/10/2021 12:00	1/10/2021 13:00	1253.5
1/10/2021 13:00	1/10/2021 14:00	1256.7
1/10/2021 14:00	1/10/2021 15:00	1254.3
1/10/2021 15:00	1/10/2021 16:00	1292.8
1/10/2021 16:00	1/10/2021 17:00	1392.1
1/10/2021 17:00	1/10/2021 18:00	1474.1
1/10/2021 18:00	1/10/2021 19:00	1446.1
1/10/2021 19:00	1/10/2021 20:00	1440.8

Start Time	End Time	ANL_MW
1/10/2021 20:00	1/10/2021 21:00	1408.7
1/10/2021 21:00	1/10/2021 22:00	1350.6
1/10/2021 22:00	1/10/2021 23:00	1221.6
1/10/2021 23:00	1/11/2021 0:00	1185.0
1/11/2021 0:00	1/11/2021 1:00	1176.9
1/11/2021 1:00	1/11/2021 2:00	1186.3
1/11/2021 2:00	1/11/2021 3:00	1214.3
1/11/2021 3:00	1/11/2021 4:00	1229.8
1/11/2021 4:00	1/11/2021 5:00	1271.9
1/11/2021 5:00	1/11/2021 6:00	1352.1
1/11/2021 6:00	1/11/2021 7:00	1497.4
1/11/2021 7:00	1/11/2021 8:00	1615.0
1/11/2021 8:00	1/11/2021 9:00	1640.7
1/11/2021 9:00	1/11/2021 10:00	1584.5
1/11/2021 10:00	1/11/2021 11:00	1533.4
1/11/2021 11:00	1/11/2021 12:00	1503.9
1/11/2021 12:00	1/11/2021 13:00	1467.4
1/11/2021 13:00	1/11/2021 14:00	1407.5
1/11/2021 14:00	1/11/2021 15:00	1358.5
1/11/2021 15:00	1/11/2021 16:00	1373.0
1/11/2021 16:00	1/11/2021 17:00	1469.7
1/11/2021 17:00	1/11/2021 18:00	1560.8
1/11/2021 18:00	1/11/2021 19:00	1503.9
1/11/2021 19:00	1/11/2021 20:00	1453.7
1/11/2021 20:00	1/11/2021 21:00	1400.9
1/11/2021 21:00	1/11/2021 22:00	1331.8
1/11/2021 22:00	1/11/2021 23:00	1285.0
1/11/2021 23:00	1/12/2021 0:00	1306.6
1/12/2021 0:00	1/12/2021 1:00	1326.8
1/12/2021 1:00	1/12/2021 2:00	1300.8
1/12/2021 2:00	1/12/2021 3:00	1259.1
1/12/2021 3:00	1/12/2021 4:00	1226.9
1/12/2021 4:00	1/12/2021 5:00	1232.9
1/12/2021 5:00	1/12/2021 6:00	1245.7
1/12/2021 6:00	1/12/2021 7:00	1291.6
1/12/2021 7:00	1/12/2021 8:00	1386.0
1/12/2021 8:00	1/12/2021 9:00	1422.4
1/12/2021 9:00	1/12/2021 10:00	1434.2
1/12/2021 10:00	1/12/2021 11:00	1438.1
1/12/2021 11:00	1/12/2021 12:00	1430.6
1/12/2021 12:00	1/12/2021 13:00	1420.2
1/12/2021 13:00	1/12/2021 14:00	1392.8
1/12/2021 14:00	1/12/2021 15:00	1374.5
1/12/2021 15:00	1/12/2021 16:00	1385.9
1/12/2021 16:00	1/12/2021 17:00	1442.5
1/12/2021 17:00	1/12/2021 18:00	1519.6
1/12/2021 18:00	1/12/2021 19:00	1485.9
1/12/2021 19:00	1/12/2021 20:00	1435.4
1/12/2021 20:00	1/12/2021 21:00	1375.9
1/12/2021 21:00	1/12/2021 22:00	1393.2
1/12/2021 22:00	1/12/2021 23:00	1344.3
1/12/2021 23:00	1/13/2021 0:00	1326.3
1/13/2021 0:00	1/13/2021 1:00	1317.9
1/13/2021 1:00	1/13/2021 2:00	1357.1
1/13/2021 2:00	1/13/2021 3:00	1337.9
1/13/2021 3:00	1/13/2021 4:00	1334.6
1/13/2021 4:00	1/13/2021 5:00	1349.8
1/13/2021 5:00	1/13/2021 6:00	1343.5
1/13/2021 6:00	1/13/2021 7:00	1425.7
1/13/2021 7:00	1/13/2021 8:00	1532.6
1/13/2021 8:00	1/13/2021 9:00	1576.4
1/13/2021 9:00	1/13/2021 10:00	1558.3
1/13/2021 10:00	1/13/2021 11:00	1499.1
1/13/2021 11:00	1/13/2021 12:00	1455.6
1/13/2021 12:00	1/13/2021 13:00	1431.3
1/13/2021 13:00	1/13/2021 14:00	1394.0
1/13/2021 14:00	1/13/2021 15:00	1375.8
1/13/2021 15:00	1/13/2021 16:00	1399.9
1/13/2021 16:00	1/13/2021 17:00	1492.9
1/13/2021 17:00	1/13/2021 18:00	1588.9

Start Time	End Time	ANL_MW
1/13/2021 18:00	1/13/2021 19:00	1562.7
1/13/2021 19:00	1/13/2021 20:00	1523.5
1/13/2021 20:00	1/13/2021 21:00	1465.0
1/13/2021 21:00	1/13/2021 22:00	1388.6
1/13/2021 22:00	1/13/2021 23:00	1295.3
1/13/2021 23:00	1/14/2021 0:00	1292.4
1/14/2021 0:00	1/14/2021 1:00	1270.3
1/14/2021 1:00	1/14/2021 2:00	1299.1
1/14/2021 2:00	1/14/2021 3:00	1265.7
1/14/2021 3:00	1/14/2021 4:00	1234.2
1/14/2021 4:00	1/14/2021 5:00	1247.0
1/14/2021 5:00	1/14/2021 6:00	1305.2
1/14/2021 6:00	1/14/2021 7:00	1432.2
1/14/2021 7:00	1/14/2021 8:00	1529.6
1/14/2021 8:00	1/14/2021 9:00	1565.3
1/14/2021 9:00	1/14/2021 10:00	1589.3
1/14/2021 10:00	1/14/2021 11:00	1550.8
1/14/2021 11:00	1/14/2021 12:00	1529.7
1/14/2021 12:00	1/14/2021 13:00	1549.9
1/14/2021 13:00	1/14/2021 14:00	1530.0
1/14/2021 14:00	1/14/2021 15:00	1520.6
1/14/2021 15:00	1/14/2021 16:00	1534.5
1/14/2021 16:00	1/14/2021 17:00	1582.3
1/14/2021 17:00	1/14/2021 18:00	1654.0
1/14/2021 18:00	1/14/2021 19:00	1609.8
1/14/2021 19:00	1/14/2021 20:00	1578.9
1/14/2021 20:00	1/14/2021 21:00	1527.8
1/14/2021 21:00	1/14/2021 22:00	1455.9
1/14/2021 22:00	1/14/2021 23:00	1370.7
1/14/2021 23:00	1/15/2021 0:00	1338.6
1/15/2021 0:00	1/15/2021 1:00	1317.3
1/15/2021 1:00	1/15/2021 2:00	1278.2
1/15/2021 2:00	1/15/2021 3:00	1240.3
1/15/2021 3:00	1/15/2021 4:00	1227.1
1/15/2021 4:00	1/15/2021 5:00	1237.6
1/15/2021 5:00	1/15/2021 6:00	1252.2
1/15/2021 6:00	1/15/2021 7:00	1313.6
1/15/2021 7:00	1/15/2021 8:00	1414.4
1/15/2021 8:00	1/15/2021 9:00	1444.9
1/15/2021 9:00	1/15/2021 10:00	1447.0
1/15/2021 10:00	1/15/2021 11:00	1449.6
1/15/2021 11:00	1/15/2021 12:00	1419.2
1/15/2021 12:00	1/15/2021 13:00	1379.8
1/15/2021 13:00	1/15/2021 14:00	1328.6
1/15/2021 14:00	1/15/2021 15:00	1296.9
1/15/2021 15:00	1/15/2021 16:00	1302.9
1/15/2021 16:00	1/15/2021 17:00	1358.0
1/15/2021 17:00	1/15/2021 18:00	1439.2
1/15/2021 18:00	1/15/2021 19:00	1400.5
1/15/2021 19:00	1/15/2021 20:00	1357.6
1/15/2021 20:00	1/15/2021 21:00	1321.5
1/15/2021 21:00	1/15/2021 22:00	1331.1
1/15/2021 22:00	1/15/2021 23:00	1290.1
1/15/2021 23:00	1/16/2021 0:00	1290.2
1/16/2021 0:00	1/16/2021 1:00	1299.9
1/16/2021 1:00	1/16/2021 2:00	1286.9
1/16/2021 2:00	1/16/2021 3:00	1284.7
1/16/2021 3:00	1/16/2021 4:00	1292.0
1/16/2021 4:00	1/16/2021 5:00	1292.6
1/16/2021 5:00	1/16/2021 6:00	1300.2
1/16/2021 6:00	1/16/2021 7:00	1329.5
1/16/2021 7:00	1/16/2021 8:00	1416.2
1/16/2021 8:00	1/16/2021 9:00	1446.0
1/16/2021 9:00	1/16/2021 10:00	1479.4
1/16/2021 10:00	1/16/2021 11:00	1499.2
1/16/2021 11:00	1/16/2021 12:00	1465.3
1/16/2021 12:00	1/16/2021 13:00	1413.9
1/16/2021 13:00	1/16/2021 14:00	1377.1
1/16/2021 14:00	1/16/2021 15:00	1328.2
1/16/2021 15:00	1/16/2021 16:00	1305.5

Start Time	End Time	ANL_MW
1/16/2021 16:00	1/16/2021 17:00	1338.9
1/16/2021 17:00	1/16/2021 18:00	1394.3
1/16/2021 18:00	1/16/2021 19:00	1288.5
1/16/2021 19:00	1/16/2021 20:00	1181.9
1/16/2021 20:00	1/16/2021 21:00	1252.0
1/16/2021 21:00	1/16/2021 22:00	1178.9
1/16/2021 22:00	1/16/2021 23:00	1070.2
1/16/2021 23:00	1/17/2021 0:00	983.0
1/17/2021 0:00	1/17/2021 1:00	925.3
1/17/2021 1:00	1/17/2021 2:00	919.9
1/17/2021 2:00	1/17/2021 3:00	872.1
1/17/2021 3:00	1/17/2021 4:00	903.7
1/17/2021 4:00	1/17/2021 5:00	919.1
1/17/2021 5:00	1/17/2021 6:00	937.0
1/17/2021 6:00	1/17/2021 7:00	975.3
1/17/2021 7:00	1/17/2021 8:00	1027.0
1/17/2021 8:00	1/17/2021 9:00	1028.9
1/17/2021 9:00	1/17/2021 10:00	1059.2
1/17/2021 10:00	1/17/2021 11:00	1087.3
1/17/2021 11:00	1/17/2021 12:00	1115.0
1/17/2021 12:00	1/17/2021 13:00	1124.9
1/17/2021 13:00	1/17/2021 14:00	1092.7
1/17/2021 14:00	1/17/2021 15:00	1079.4
1/17/2021 15:00	1/17/2021 16:00	1099.5
1/17/2021 16:00	1/17/2021 17:00	1155.4
1/17/2021 17:00	1/17/2021 18:00	1193.9
1/17/2021 18:00	1/17/2021 19:00	1171.2
1/17/2021 19:00	1/17/2021 20:00	1135.3
1/17/2021 20:00	1/17/2021 21:00	1095.9
1/17/2021 21:00	1/17/2021 22:00	1039.4
1/17/2021 22:00	1/17/2021 23:00	952.5
1/17/2021 23:00	1/18/2021 0:00	886.0
1/18/2021 0:00	1/18/2021 1:00	860.4
1/18/2021 1:00	1/18/2021 2:00	898.5
1/18/2021 2:00	1/18/2021 3:00	892.5
1/18/2021 3:00	1/18/2021 4:00	895.7
1/18/2021 4:00	1/18/2021 5:00	921.4
1/18/2021 5:00	1/18/2021 6:00	978.6
1/18/2021 6:00	1/18/2021 7:00	1076.0
1/18/2021 7:00	1/18/2021 8:00	1210.6
1/18/2021 8:00	1/18/2021 9:00	1259.7
1/18/2021 9:00	1/18/2021 10:00	1287.8
1/18/2021 10:00	1/18/2021 11:00	1314.5
1/18/2021 11:00	1/18/2021 12:00	1266.1
1/18/2021 12:00	1/18/2021 13:00	1219.9
1/18/2021 13:00	1/18/2021 14:00	1156.5
1/18/2021 14:00	1/18/2021 15:00	1109.7
1/18/2021 15:00	1/18/2021 16:00	1110.7
1/18/2021 16:00	1/18/2021 17:00	1198.6
1/18/2021 17:00	1/18/2021 18:00	1307.9
1/18/2021 18:00	1/18/2021 19:00	1286.0
1/18/2021 19:00	1/18/2021 20:00	1245.4
1/18/2021 20:00	1/18/2021 21:00	1214.0
1/18/2021 21:00	1/18/2021 22:00	1207.8
1/18/2021 22:00	1/18/2021 23:00	1146.3
1/18/2021 23:00	1/19/2021 0:00	1064.5
1/19/2021 0:00	1/19/2021 1:00	972.6
1/19/2021 1:00	1/19/2021 2:00	929.0
1/19/2021 2:00	1/19/2021 3:00	911.1
1/19/2021 3:00	1/19/2021 4:00	920.7
1/19/2021 4:00	1/19/2021 5:00	899.1
1/19/2021 5:00	1/19/2021 6:00	954.7
1/19/2021 6:00	1/19/2021 7:00	1100.5
1/19/2021 7:00	1/19/2021 8:00	1206.1
1/19/2021 8:00	1/19/2021 9:00	1247.5
1/19/2021 9:00	1/19/2021 10:00	1240.9
1/19/2021 10:00	1/19/2021 11:00	1229.4
1/19/2021 11:00	1/19/2021 12:00	1203.9
1/19/2021 12:00	1/19/2021 13:00	1195.7
1/19/2021 13:00	1/19/2021 14:00	1148.2

Start Time	End Time	ANL_MW
1/19/2021 14:00	1/19/2021 15:00	1131.3
1/19/2021 15:00	1/19/2021 16:00	1157.5
1/19/2021 16:00	1/19/2021 17:00	1241.3
1/19/2021 17:00	1/19/2021 18:00	1413.7
1/19/2021 18:00	1/19/2021 19:00	1398.8
1/19/2021 19:00	1/19/2021 20:00	1365.4
1/19/2021 20:00	1/19/2021 21:00	1309.9
1/19/2021 21:00	1/19/2021 22:00	1220.1
1/19/2021 22:00	1/19/2021 23:00	1157.3
1/19/2021 23:00	1/20/2021 0:00	1134.7
1/20/2021 0:00	1/20/2021 1:00	1147.7
1/20/2021 1:00	1/20/2021 2:00	1155.4
1/20/2021 2:00	1/20/2021 3:00	1143.0
1/20/2021 3:00	1/20/2021 4:00	1132.7
1/20/2021 4:00	1/20/2021 5:00	1164.1
1/20/2021 5:00	1/20/2021 6:00	1237.8
1/20/2021 6:00	1/20/2021 7:00	1402.8
1/20/2021 7:00	1/20/2021 8:00	1551.9
1/20/2021 8:00	1/20/2021 9:00	1587.4
1/20/2021 9:00	1/20/2021 10:00	1575.8
1/20/2021 10:00	1/20/2021 11:00	1558.3
1/20/2021 11:00	1/20/2021 12:00	1520.4
1/20/2021 12:00	1/20/2021 13:00	1496.4
1/20/2021 13:00	1/20/2021 14:00	1439.7
1/20/2021 14:00	1/20/2021 15:00	1425.5
1/20/2021 15:00	1/20/2021 16:00	1447.7
1/20/2021 16:00	1/20/2021 17:00	1515.7
1/20/2021 17:00	1/20/2021 18:00	1615.9
1/20/2021 18:00	1/20/2021 19:00	1565.2
1/20/2021 19:00	1/20/2021 20:00	1509.1
1/20/2021 20:00	1/20/2021 21:00	1402.7
1/20/2021 21:00	1/20/2021 22:00	1313.6
1/20/2021 22:00	1/20/2021 23:00	1238.1
1/20/2021 23:00	1/21/2021 0:00	1259.9
1/21/2021 0:00	1/21/2021 1:00	1233.6
1/21/2021 1:00	1/21/2021 2:00	1135.4
1/21/2021 2:00	1/21/2021 3:00	1135.6
1/21/2021 3:00	1/21/2021 4:00	1165.1
1/21/2021 4:00	1/21/2021 5:00	1226.0
1/21/2021 5:00	1/21/2021 6:00	1309.0
1/21/2021 6:00	1/21/2021 7:00	1466.3
1/21/2021 7:00	1/21/2021 8:00	1622.9
1/21/2021 8:00	1/21/2021 9:00	1665.2
1/21/2021 9:00	1/21/2021 10:00	1651.4
1/21/2021 10:00	1/21/2021 11:00	1629.8
1/21/2021 11:00	1/21/2021 12:00	1595.3
1/21/2021 12:00	1/21/2021 13:00	1571.5
1/21/2021 13:00	1/21/2021 14:00	1519.4
1/21/2021 14:00	1/21/2021 15:00	1491.0
1/21/2021 15:00	1/21/2021 16:00	1523.1
1/21/2021 16:00	1/21/2021 17:00	1613.2
1/21/2021 17:00	1/21/2021 18:00	1714.4
1/21/2021 18:00	1/21/2021 19:00	1705.1
1/21/2021 19:00	1/21/2021 20:00	1666.3
1/21/2021 20:00	1/21/2021 21:00	1626.6
1/21/2021 21:00	1/21/2021 22:00	1566.0
1/21/2021 22:00	1/21/2021 23:00	1480.1
1/21/2021 23:00	1/22/2021 0:00	1454.0
1/22/2021 0:00	1/22/2021 1:00	1425.0
1/22/2021 1:00	1/22/2021 2:00	1371.8
1/22/2021 2:00	1/22/2021 3:00	1312.8
1/22/2021 3:00	1/22/2021 4:00	1262.9
1/22/2021 4:00	1/22/2021 5:00	1249.6
1/22/2021 5:00	1/22/2021 6:00	1280.9
1/22/2021 6:00	1/22/2021 7:00	1401.3
1/22/2021 7:00	1/22/2021 8:00	1521.2
1/22/2021 8:00	1/22/2021 9:00	1550.3
1/22/2021 9:00	1/22/2021 10:00	1574.5
1/22/2021 10:00	1/22/2021 11:00	1612.2
1/22/2021 11:00	1/22/2021 12:00	1639.5

Start Time	End Time	ANL_MW
1/22/2021 12:00	1/22/2021 13:00	1641.0
1/22/2021 13:00	1/22/2021 14:00	1585.8
1/22/2021 14:00	1/22/2021 15:00	1558.6
1/22/2021 15:00	1/22/2021 16:00	1565.7
1/22/2021 16:00	1/22/2021 17:00	1543.1
1/22/2021 17:00	1/22/2021 18:00	1607.3
1/22/2021 18:00	1/22/2021 19:00	1564.4
1/22/2021 19:00	1/22/2021 20:00	1520.1
1/22/2021 20:00	1/22/2021 21:00	1477.8
1/22/2021 21:00	1/22/2021 22:00	1440.9
1/22/2021 22:00	1/22/2021 23:00	1422.0
1/22/2021 23:00	1/23/2021 0:00	1458.9
1/23/2021 0:00	1/23/2021 1:00	1468.4
1/23/2021 1:00	1/23/2021 2:00	1455.7
1/23/2021 2:00	1/23/2021 3:00	1425.2
1/23/2021 3:00	1/23/2021 4:00	1426.0
1/23/2021 4:00	1/23/2021 5:00	1420.3
1/23/2021 5:00	1/23/2021 6:00	1394.1
1/23/2021 6:00	1/23/2021 7:00	1462.7
1/23/2021 7:00	1/23/2021 8:00	1520.5
1/23/2021 8:00	1/23/2021 9:00	1601.5
1/23/2021 9:00	1/23/2021 10:00	1643.8
1/23/2021 10:00	1/23/2021 11:00	1616.9
1/23/2021 11:00	1/23/2021 12:00	1581.3
1/23/2021 12:00	1/23/2021 13:00	1559.6
1/23/2021 13:00	1/23/2021 14:00	1568.4
1/23/2021 14:00	1/23/2021 15:00	1541.7
1/23/2021 15:00	1/23/2021 16:00	1530.8
1/23/2021 16:00	1/23/2021 17:00	1547.7
1/23/2021 17:00	1/23/2021 18:00	1626.3
1/23/2021 18:00	1/23/2021 19:00	1594.0
1/23/2021 19:00	1/23/2021 20:00	1515.8
1/23/2021 20:00	1/23/2021 21:00	1425.5
1/23/2021 21:00	1/23/2021 22:00	1388.9
1/23/2021 22:00	1/23/2021 23:00	1305.4
1/23/2021 23:00	1/24/2021 0:00	1246.4
1/24/2021 0:00	1/24/2021 1:00	1225.3
1/24/2021 1:00	1/24/2021 2:00	1196.5
1/24/2021 2:00	1/24/2021 3:00	1203.7
1/24/2021 3:00	1/24/2021 4:00	1232.3
1/24/2021 4:00	1/24/2021 5:00	1262.3
1/24/2021 5:00	1/24/2021 6:00	1331.1
1/24/2021 6:00	1/24/2021 7:00	1404.8
1/24/2021 7:00	1/24/2021 8:00	1474.3
1/24/2021 8:00	1/24/2021 9:00	1485.6
1/24/2021 9:00	1/24/2021 10:00	1507.2
1/24/2021 10:00	1/24/2021 11:00	1507.2
1/24/2021 11:00	1/24/2021 12:00	1509.0
1/24/2021 12:00	1/24/2021 13:00	1549.2
1/24/2021 13:00	1/24/2021 14:00	1540.1
1/24/2021 14:00	1/24/2021 15:00	1540.8
1/24/2021 15:00	1/24/2021 16:00	1555.0
1/24/2021 16:00	1/24/2021 17:00	1599.6
1/24/2021 17:00	1/24/2021 18:00	1629.7
1/24/2021 18:00	1/24/2021 19:00	1528.4
1/24/2021 19:00	1/24/2021 20:00	1494.6
1/24/2021 20:00	1/24/2021 21:00	1415.4
1/24/2021 21:00	1/24/2021 22:00	1392.7
1/24/2021 22:00	1/24/2021 23:00	1289.6
1/24/2021 23:00	1/25/2021 0:00	1181.0
1/25/2021 0:00	1/25/2021 1:00	1108.1
1/25/2021 1:00	1/25/2021 2:00	1074.4
1/25/2021 2:00	1/25/2021 3:00	1081.3
1/25/2021 3:00	1/25/2021 4:00	1070.6
1/25/2021 4:00	1/25/2021 5:00	1085.7
1/25/2021 5:00	1/25/2021 6:00	1146.9
1/25/2021 6:00	1/25/2021 7:00	1292.1
1/25/2021 7:00	1/25/2021 8:00	1370.6
1/25/2021 8:00	1/25/2021 9:00	1421.5
1/25/2021 9:00	1/25/2021 10:00	1429.2

Start Time	End Time	ANL_MW
1/25/2021 10:00	1/25/2021 11:00	1408.9
1/25/2021 11:00	1/25/2021 12:00	1415.3
1/25/2021 12:00	1/25/2021 13:00	1413.3
1/25/2021 13:00	1/25/2021 14:00	1388.9
1/25/2021 14:00	1/25/2021 15:00	1381.0
1/25/2021 15:00	1/25/2021 16:00	1375.4
1/25/2021 16:00	1/25/2021 17:00	1424.4
1/25/2021 17:00	1/25/2021 18:00	1520.1
1/25/2021 18:00	1/25/2021 19:00	1492.0
1/25/2021 19:00	1/25/2021 20:00	1439.6
1/25/2021 20:00	1/25/2021 21:00	1377.3
1/25/2021 21:00	1/25/2021 22:00	1311.5
1/25/2021 22:00	1/25/2021 23:00	1200.5
1/25/2021 23:00	1/26/2021 0:00	1175.5
1/26/2021 0:00	1/26/2021 1:00	1174.3
1/26/2021 1:00	1/26/2021 2:00	1164.0
1/26/2021 2:00	1/26/2021 3:00	1149.4
1/26/2021 3:00	1/26/2021 4:00	1167.3
1/26/2021 4:00	1/26/2021 5:00	1194.9
1/26/2021 5:00	1/26/2021 6:00	1240.8
1/26/2021 6:00	1/26/2021 7:00	1344.4
1/26/2021 7:00	1/26/2021 8:00	1440.7
1/26/2021 8:00	1/26/2021 9:00	1468.1
1/26/2021 9:00	1/26/2021 10:00	1455.9
1/26/2021 10:00	1/26/2021 11:00	1419.3
1/26/2021 11:00	1/26/2021 12:00	1386.2
1/26/2021 12:00	1/26/2021 13:00	1388.0
1/26/2021 13:00	1/26/2021 14:00	1364.5
1/26/2021 14:00	1/26/2021 15:00	1353.6
1/26/2021 15:00	1/26/2021 16:00	1377.4
1/26/2021 16:00	1/26/2021 17:00	1448.0
1/26/2021 17:00	1/26/2021 18:00	1546.1
1/26/2021 18:00	1/26/2021 19:00	1554.2
1/26/2021 19:00	1/26/2021 20:00	1477.8
1/26/2021 20:00	1/26/2021 21:00	1404.6
1/26/2021 21:00	1/26/2021 22:00	1324.4
1/26/2021 22:00	1/26/2021 23:00	1235.3
1/26/2021 23:00	1/27/2021 0:00	1226.9
1/27/2021 0:00	1/27/2021 1:00	1240.9
1/27/2021 1:00	1/27/2021 2:00	1216.7
1/27/2021 2:00	1/27/2021 3:00	1199.6
1/27/2021 3:00	1/27/2021 4:00	1185.8
1/27/2021 4:00	1/27/2021 5:00	1200.7
1/27/2021 5:00	1/27/2021 6:00	1262.0
1/27/2021 6:00	1/27/2021 7:00	1395.9
1/27/2021 7:00	1/27/2021 8:00	1445.3
1/27/2021 8:00	1/27/2021 9:00	1466.9
1/27/2021 9:00	1/27/2021 10:00	1462.0
1/27/2021 10:00	1/27/2021 11:00	1470.0
1/27/2021 11:00	1/27/2021 12:00	1470.5
1/27/2021 12:00	1/27/2021 13:00	1524.8
1/27/2021 13:00	1/27/2021 14:00	1524.4
1/27/2021 14:00	1/27/2021 15:00	1474.3
1/27/2021 15:00	1/27/2021 16:00	1451.1
1/27/2021 16:00	1/27/2021 17:00	1511.3
1/27/2021 17:00	1/27/2021 18:00	1580.5
1/27/2021 18:00	1/27/2021 19:00	1586.9
1/27/2021 19:00	1/27/2021 20:00	1562.7
1/27/2021 20:00	1/27/2021 21:00	1525.1
1/27/2021 21:00	1/27/2021 22:00	1458.6
1/27/2021 22:00	1/27/2021 23:00	1377.4
1/27/2021 23:00	1/28/2021 0:00	1364.4
1/28/2021 0:00	1/28/2021 1:00	1370.5
1/28/2021 1:00	1/28/2021 2:00	1424.0
1/28/2021 2:00	1/28/2021 3:00	1407.3
1/28/2021 3:00	1/28/2021 4:00	1411.6
1/28/2021 4:00	1/28/2021 5:00	1408.5
1/28/2021 5:00	1/28/2021 6:00	1394.5
1/28/2021 6:00	1/28/2021 7:00	1518.0
1/28/2021 7:00	1/28/2021 8:00	1573.1

Start Time	End Time	ANL_MW
1/28/2021 8:00	1/28/2021 9:00	1579.6
1/28/2021 9:00	1/28/2021 10:00	1562.8
1/28/2021 10:00	1/28/2021 11:00	1529.7
1/28/2021 11:00	1/28/2021 12:00	1509.2
1/28/2021 12:00	1/28/2021 13:00	1518.1
1/28/2021 13:00	1/28/2021 14:00	1473.4
1/28/2021 14:00	1/28/2021 15:00	1443.3
1/28/2021 15:00	1/28/2021 16:00	1472.7
1/28/2021 16:00	1/28/2021 17:00	1544.9
1/28/2021 17:00	1/28/2021 18:00	1624.2
1/28/2021 18:00	1/28/2021 19:00	1616.5
1/28/2021 19:00	1/28/2021 20:00	1584.8
1/28/2021 20:00	1/28/2021 21:00	1530.8
1/28/2021 21:00	1/28/2021 22:00	1463.0
1/28/2021 22:00	1/28/2021 23:00	1373.0
1/28/2021 23:00	1/29/2021 0:00	1355.4
1/29/2021 0:00	1/29/2021 1:00	1375.9
1/29/2021 1:00	1/29/2021 2:00	1356.2
1/29/2021 2:00	1/29/2021 3:00	1313.7
1/29/2021 3:00	1/29/2021 4:00	1286.5
1/29/2021 4:00	1/29/2021 5:00	1289.3
1/29/2021 5:00	1/29/2021 6:00	1331.5
1/29/2021 6:00	1/29/2021 7:00	1442.1
1/29/2021 7:00	1/29/2021 8:00	1442.9
1/29/2021 8:00	1/29/2021 9:00	1449.0
1/29/2021 9:00	1/29/2021 10:00	1466.8
1/29/2021 10:00	1/29/2021 11:00	1417.6
1/29/2021 11:00	1/29/2021 12:00	1407.5
1/29/2021 12:00	1/29/2021 13:00	1418.8
1/29/2021 13:00	1/29/2021 14:00	1377.3
1/29/2021 14:00	1/29/2021 15:00	1362.3
1/29/2021 15:00	1/29/2021 16:00	1367.3
1/29/2021 16:00	1/29/2021 17:00	1395.8
1/29/2021 17:00	1/29/2021 18:00	1451.7
1/29/2021 18:00	1/29/2021 19:00	1428.9
1/29/2021 19:00	1/29/2021 20:00	1377.9
1/29/2021 20:00	1/29/2021 21:00	1315.1
1/29/2021 21:00	1/29/2021 22:00	1317.5
1/29/2021 22:00	1/29/2021 23:00	1246.8
1/29/2021 23:00	1/30/2021 0:00	1231.6
1/30/2021 0:00	1/30/2021 1:00	1206.8
1/30/2021 1:00	1/30/2021 2:00	1176.0
1/30/2021 2:00	1/30/2021 3:00	1146.0
1/30/2021 3:00	1/30/2021 4:00	1140.5
1/30/2021 4:00	1/30/2021 5:00	1155.4
1/30/2021 5:00	1/30/2021 6:00	1204.8
1/30/2021 6:00	1/30/2021 7:00	1294.7
1/30/2021 7:00	1/30/2021 8:00	1327.5
1/30/2021 8:00	1/30/2021 9:00	1440.6
1/30/2021 9:00	1/30/2021 10:00	1496.4
1/30/2021 10:00	1/30/2021 11:00	1541.7
1/30/2021 11:00	1/30/2021 12:00	1575.1
1/30/2021 12:00	1/30/2021 13:00	1558.7
1/30/2021 13:00	1/30/2021 14:00	1506.2
1/30/2021 14:00	1/30/2021 15:00	1364.4
1/30/2021 15:00	1/30/2021 16:00	1337.8
1/30/2021 16:00	1/30/2021 17:00	1421.3
1/30/2021 17:00	1/30/2021 18:00	1551.4
1/30/2021 18:00	1/30/2021 19:00	1550.8
1/30/2021 19:00	1/30/2021 20:00	1545.8
1/30/2021 20:00	1/30/2021 21:00	1504.1
1/30/2021 21:00	1/30/2021 22:00	1433.2
1/30/2021 22:00	1/30/2021 23:00	1389.6
1/30/2021 23:00	1/31/2021 0:00	1339.4
1/31/2021 0:00	1/31/2021 1:00	1272.5
1/31/2021 1:00	1/31/2021 2:00	1254.2
1/31/2021 2:00	1/31/2021 3:00	1264.4
1/31/2021 3:00	1/31/2021 4:00	1298.7
1/31/2021 4:00	1/31/2021 5:00	1346.4
1/31/2021 5:00	1/31/2021 6:00	1406.2

Start Time	End Time	ANL_MW
1/31/2021 6:00	1/31/2021 7:00	1456.7
1/31/2021 7:00	1/31/2021 8:00	1528.1
1/31/2021 8:00	1/31/2021 9:00	1531.0
1/31/2021 9:00	1/31/2021 10:00	1580.9
1/31/2021 10:00	1/31/2021 11:00	1604.9
1/31/2021 11:00	1/31/2021 12:00	1565.8
1/31/2021 12:00	1/31/2021 13:00	1539.3
1/31/2021 13:00	1/31/2021 14:00	1480.7
1/31/2021 14:00	1/31/2021 15:00	1446.5
1/31/2021 15:00	1/31/2021 16:00	1449.4
1/31/2021 16:00	1/31/2021 17:00	1518.1
1/31/2021 17:00	1/31/2021 18:00	1593.7
1/31/2021 18:00	1/31/2021 19:00	1585.2
1/31/2021 19:00	1/31/2021 20:00	1567.9
1/31/2021 20:00	1/31/2021 21:00	1519.1
1/31/2021 21:00	1/31/2021 22:00	1451.6
1/31/2021 22:00	1/31/2021 23:00	1362.6
1/31/2021 23:00	2/1/2021 0:00	1332.1
2/1/2021 0:00	2/1/2021 1:00	1311.4
2/1/2021 1:00	2/1/2021 2:00	1302.7
2/1/2021 2:00	2/1/2021 3:00	1298.5
2/1/2021 3:00	2/1/2021 4:00	1314.0
2/1/2021 4:00	2/1/2021 5:00	1323.2
2/1/2021 5:00	2/1/2021 6:00	1376.8
2/1/2021 6:00	2/1/2021 7:00	1442.9
2/1/2021 7:00	2/1/2021 8:00	1564.9
2/1/2021 8:00	2/1/2021 9:00	1609.1
2/1/2021 9:00	2/1/2021 10:00	1625.7
2/1/2021 10:00	2/1/2021 11:00	1621.4
2/1/2021 11:00	2/1/2021 12:00	1603.5
2/1/2021 12:00	2/1/2021 13:00	1596.2
2/1/2021 13:00	2/1/2021 14:00	1549.4
2/1/2021 14:00	2/1/2021 15:00	1495.7
2/1/2021 15:00	2/1/2021 16:00	1476.0
2/1/2021 16:00	2/1/2021 17:00	1531.8
2/1/2021 17:00	2/1/2021 18:00	1613.2
2/1/2021 18:00	2/1/2021 19:00	1622.5
2/1/2021 19:00	2/1/2021 20:00	1584.2
2/1/2021 20:00	2/1/2021 21:00	1515.5
2/1/2021 21:00	2/1/2021 22:00	1426.8
2/1/2021 22:00	2/1/2021 23:00	1328.9
2/1/2021 23:00	2/2/2021 0:00	1329.6
2/2/2021 0:00	2/2/2021 1:00	1285.2
2/2/2021 1:00	2/2/2021 2:00	1208.9
2/2/2021 2:00	2/2/2021 3:00	1153.5
2/2/2021 3:00	2/2/2021 4:00	1106.1
2/2/2021 4:00	2/2/2021 5:00	1088.3
2/2/2021 5:00	2/2/2021 6:00	1128.8
2/2/2021 6:00	2/2/2021 7:00	1213.3
2/2/2021 7:00	2/2/2021 8:00	1297.9
2/2/2021 8:00	2/2/2021 9:00	1385.3
2/2/2021 9:00	2/2/2021 10:00	1336.2
2/2/2021 10:00	2/2/2021 11:00	1318.1
2/2/2021 11:00	2/2/2021 12:00	1379.7
2/2/2021 12:00	2/2/2021 13:00	1415.8
2/2/2021 13:00	2/2/2021 14:00	1361.9
2/2/2021 14:00	2/2/2021 15:00	1338.3
2/2/2021 15:00	2/2/2021 16:00	1355.7
2/2/2021 16:00	2/2/2021 17:00	1357.2
2/2/2021 17:00	2/2/2021 18:00	1368.6
2/2/2021 18:00	2/2/2021 19:00	1285.3
2/2/2021 19:00	2/2/2021 20:00	1184.7
2/2/2021 20:00	2/2/2021 21:00	1070.2
2/2/2021 21:00	2/2/2021 22:00	1042.5
2/2/2021 22:00	2/2/2021 23:00	934.8
2/2/2021 23:00	2/3/2021 0:00	908.0
2/3/2021 0:00	2/3/2021 1:00	924.3
2/3/2021 1:00	2/3/2021 2:00	920.1
2/3/2021 2:00	2/3/2021 3:00	911.1
2/3/2021 3:00	2/3/2021 4:00	879.1

Start Time	End Time	ANL_MW
2/3/2021 4:00	2/3/2021 5:00	943.0
2/3/2021 5:00	2/3/2021 6:00	988.1
2/3/2021 6:00	2/3/2021 7:00	1101.8
2/3/2021 7:00	2/3/2021 8:00	1116.0
2/3/2021 8:00	2/3/2021 9:00	1121.8
2/3/2021 9:00	2/3/2021 10:00	1165.0
2/3/2021 10:00	2/3/2021 11:00	1148.2
2/3/2021 11:00	2/3/2021 12:00	1164.9
2/3/2021 12:00	2/3/2021 13:00	1141.4
2/3/2021 13:00	2/3/2021 14:00	1082.5
2/3/2021 14:00	2/3/2021 15:00	1052.9
2/3/2021 15:00	2/3/2021 16:00	1108.3
2/3/2021 16:00	2/3/2021 17:00	1220.8
2/3/2021 17:00	2/3/2021 18:00	1306.3
2/3/2021 18:00	2/3/2021 19:00	1350.0
2/3/2021 19:00	2/3/2021 20:00	1345.9
2/3/2021 20:00	2/3/2021 21:00	1282.1
2/3/2021 21:00	2/3/2021 22:00	1186.5
2/3/2021 22:00	2/3/2021 23:00	1133.6
2/3/2021 23:00	2/4/2021 0:00	1201.9
2/4/2021 0:00	2/4/2021 1:00	1205.0
2/4/2021 1:00	2/4/2021 2:00	1180.0
2/4/2021 2:00	2/4/2021 3:00	1132.1
2/4/2021 3:00	2/4/2021 4:00	1091.2
2/4/2021 4:00	2/4/2021 5:00	1099.5
2/4/2021 5:00	2/4/2021 6:00	1168.8
2/4/2021 6:00	2/4/2021 7:00	1260.0
2/4/2021 7:00	2/4/2021 8:00	1371.6
2/4/2021 8:00	2/4/2021 9:00	1420.6
2/4/2021 9:00	2/4/2021 10:00	1420.5
2/4/2021 10:00	2/4/2021 11:00	1408.6
2/4/2021 11:00	2/4/2021 12:00	1405.4
2/4/2021 12:00	2/4/2021 13:00	1410.1
2/4/2021 13:00	2/4/2021 14:00	1392.9
2/4/2021 14:00	2/4/2021 15:00	1380.2
2/4/2021 15:00	2/4/2021 16:00	1398.1
2/4/2021 16:00	2/4/2021 17:00	1440.7
2/4/2021 17:00	2/4/2021 18:00	1502.4
2/4/2021 18:00	2/4/2021 19:00	1486.1
2/4/2021 19:00	2/4/2021 20:00	1445.7
2/4/2021 20:00	2/4/2021 21:00	1387.5
2/4/2021 21:00	2/4/2021 22:00	1316.2
2/4/2021 22:00	2/4/2021 23:00	1231.3
2/4/2021 23:00	2/5/2021 0:00	1203.8
2/5/2021 0:00	2/5/2021 1:00	1192.7
2/5/2021 1:00	2/5/2021 2:00	1191.3
2/5/2021 2:00	2/5/2021 3:00	1159.3
2/5/2021 3:00	2/5/2021 4:00	1131.6
2/5/2021 4:00	2/5/2021 5:00	1136.0
2/5/2021 5:00	2/5/2021 6:00	1209.2
2/5/2021 6:00	2/5/2021 7:00	1327.2
2/5/2021 7:00	2/5/2021 8:00	1409.0
2/5/2021 8:00	2/5/2021 9:00	1417.5
2/5/2021 9:00	2/5/2021 10:00	1395.1
2/5/2021 10:00	2/5/2021 11:00	1381.6
2/5/2021 11:00	2/5/2021 12:00	1387.3
2/5/2021 12:00	2/5/2021 13:00	1368.4
2/5/2021 13:00	2/5/2021 14:00	1326.6
2/5/2021 14:00	2/5/2021 15:00	1281.4
2/5/2021 15:00	2/5/2021 16:00	1281.7
2/5/2021 16:00	2/5/2021 17:00	1339.9
2/5/2021 17:00	2/5/2021 18:00	1421.3
2/5/2021 18:00	2/5/2021 19:00	1408.1
2/5/2021 19:00	2/5/2021 20:00	1316.8
2/5/2021 20:00	2/5/2021 21:00	1266.4
2/5/2021 21:00	2/5/2021 22:00	1192.4
2/5/2021 22:00	2/5/2021 23:00	1095.2
2/5/2021 23:00	2/6/2021 0:00	1012.3
2/6/2021 0:00	2/6/2021 1:00	972.8
2/6/2021 1:00	2/6/2021 2:00	935.7

Start Time	End Time	ANL_MW
2/6/2021 2:00	2/6/2021 3:00	905.4
2/6/2021 3:00	2/6/2021 4:00	865.6
2/6/2021 4:00	2/6/2021 5:00	861.5
2/6/2021 5:00	2/6/2021 6:00	867.7
2/6/2021 6:00	2/6/2021 7:00	869.3
2/6/2021 7:00	2/6/2021 8:00	912.8
2/6/2021 8:00	2/6/2021 9:00	992.6
2/6/2021 9:00	2/6/2021 10:00	1034.5
2/6/2021 10:00	2/6/2021 11:00	1040.2
2/6/2021 11:00	2/6/2021 12:00	1015.3
2/6/2021 12:00	2/6/2021 13:00	1019.3
2/6/2021 13:00	2/6/2021 14:00	963.4
2/6/2021 14:00	2/6/2021 15:00	934.8
2/6/2021 15:00	2/6/2021 16:00	966.0
2/6/2021 16:00	2/6/2021 17:00	1026.5
2/6/2021 17:00	2/6/2021 18:00	1200.0
2/6/2021 18:00	2/6/2021 19:00	1252.0
2/6/2021 19:00	2/6/2021 20:00	1213.5
2/6/2021 20:00	2/6/2021 21:00	1204.8
2/6/2021 21:00	2/6/2021 22:00	1157.2
2/6/2021 22:00	2/6/2021 23:00	1100.1
2/6/2021 23:00	2/7/2021 0:00	1034.3
2/7/2021 0:00	2/7/2021 1:00	978.2
2/7/2021 1:00	2/7/2021 2:00	977.8
2/7/2021 2:00	2/7/2021 3:00	967.1
2/7/2021 3:00	2/7/2021 4:00	936.7
2/7/2021 4:00	2/7/2021 5:00	960.3
2/7/2021 5:00	2/7/2021 6:00	982.7
2/7/2021 6:00	2/7/2021 7:00	1115.6
2/7/2021 7:00	2/7/2021 8:00	1221.1
2/7/2021 8:00	2/7/2021 9:00	1369.7
2/7/2021 9:00	2/7/2021 10:00	1499.5
2/7/2021 10:00	2/7/2021 11:00	1531.5
2/7/2021 11:00	2/7/2021 12:00	1502.7
2/7/2021 12:00	2/7/2021 13:00	1485.7
2/7/2021 13:00	2/7/2021 14:00	1493.3
2/7/2021 14:00	2/7/2021 15:00	1505.9
2/7/2021 15:00	2/7/2021 16:00	1521.6
2/7/2021 16:00	2/7/2021 17:00	1564.8
2/7/2021 17:00	2/7/2021 18:00	1583.5
2/7/2021 18:00	2/7/2021 19:00	1520.9
2/7/2021 19:00	2/7/2021 20:00	1428.7
2/7/2021 20:00	2/7/2021 21:00	1341.7
2/7/2021 21:00	2/7/2021 22:00	1288.9
2/7/2021 22:00	2/7/2021 23:00	1155.9
2/7/2021 23:00	2/8/2021 0:00	1046.8
2/8/2021 0:00	2/8/2021 1:00	975.4
2/8/2021 1:00	2/8/2021 2:00	999.5
2/8/2021 2:00	2/8/2021 3:00	1005.1
2/8/2021 3:00	2/8/2021 4:00	986.9
2/8/2021 4:00	2/8/2021 5:00	981.8
2/8/2021 5:00	2/8/2021 6:00	1016.4
2/8/2021 6:00	2/8/2021 7:00	1072.5
2/8/2021 7:00	2/8/2021 8:00	1082.2
2/8/2021 8:00	2/8/2021 9:00	1076.0
2/8/2021 9:00	2/8/2021 10:00	1115.3
2/8/2021 10:00	2/8/2021 11:00	1124.5
2/8/2021 11:00	2/8/2021 12:00	1123.9
2/8/2021 12:00	2/8/2021 13:00	1137.8
2/8/2021 13:00	2/8/2021 14:00	1133.5
2/8/2021 14:00	2/8/2021 15:00	1136.1
2/8/2021 15:00	2/8/2021 16:00	1179.1
2/8/2021 16:00	2/8/2021 17:00	1233.1
2/8/2021 17:00	2/8/2021 18:00	1292.7
2/8/2021 18:00	2/8/2021 19:00	1283.3
2/8/2021 19:00	2/8/2021 20:00	1251.4
2/8/2021 20:00	2/8/2021 21:00	1207.6
2/8/2021 21:00	2/8/2021 22:00	1142.2
2/8/2021 22:00	2/8/2021 23:00	1072.6
2/8/2021 23:00	2/9/2021 0:00	1117.1

Start Time	End Time	ANL_MW
2/9/2021 0:00	2/9/2021 1:00	1121.1
2/9/2021 1:00	2/9/2021 2:00	1117.8
2/9/2021 2:00	2/9/2021 3:00	1116.5
2/9/2021 3:00	2/9/2021 4:00	1124.8
2/9/2021 4:00	2/9/2021 5:00	1093.6
2/9/2021 5:00	2/9/2021 6:00	1163.5
2/9/2021 6:00	2/9/2021 7:00	1242.4
2/9/2021 7:00	2/9/2021 8:00	1333.8
2/9/2021 8:00	2/9/2021 9:00	1366.3
2/9/2021 9:00	2/9/2021 10:00	1372.4
2/9/2021 10:00	2/9/2021 11:00	1351.1
2/9/2021 11:00	2/9/2021 12:00	1338.5
2/9/2021 12:00	2/9/2021 13:00	1321.3
2/9/2021 13:00	2/9/2021 14:00	1265.3
2/9/2021 14:00	2/9/2021 15:00	1233.7
2/9/2021 15:00	2/9/2021 16:00	1264.3
2/9/2021 16:00	2/9/2021 17:00	1399.9
2/9/2021 17:00	2/9/2021 18:00	1552.4
2/9/2021 18:00	2/9/2021 19:00	1554.8
2/9/2021 19:00	2/9/2021 20:00	1515.9
2/9/2021 20:00	2/9/2021 21:00	1475.5
2/9/2021 21:00	2/9/2021 22:00	1413.3
2/9/2021 22:00	2/9/2021 23:00	1335.4
2/9/2021 23:00	2/10/2021 0:00	1321.1
2/10/2021 0:00	2/10/2021 1:00	1315.3
2/10/2021 1:00	2/10/2021 2:00	1293.6
2/10/2021 2:00	2/10/2021 3:00	1250.1
2/10/2021 3:00	2/10/2021 4:00	1220.1
2/10/2021 4:00	2/10/2021 5:00	1221.4
2/10/2021 5:00	2/10/2021 6:00	1240.8
2/10/2021 6:00	2/10/2021 7:00	1336.7
2/10/2021 7:00	2/10/2021 8:00	1428.4
2/10/2021 8:00	2/10/2021 9:00	1487.3
2/10/2021 9:00	2/10/2021 10:00	1476.4
2/10/2021 10:00	2/10/2021 11:00	1401.5
2/10/2021 11:00	2/10/2021 12:00	1325.6
2/10/2021 12:00	2/10/2021 13:00	1297.1
2/10/2021 13:00	2/10/2021 14:00	1238.9
2/10/2021 14:00	2/10/2021 15:00	1208.0
2/10/2021 15:00	2/10/2021 16:00	1237.5
2/10/2021 16:00	2/10/2021 17:00	1331.3
2/10/2021 17:00	2/10/2021 18:00	1445.1
2/10/2021 18:00	2/10/2021 19:00	1492.0
2/10/2021 19:00	2/10/2021 20:00	1434.3
2/10/2021 20:00	2/10/2021 21:00	1373.6
2/10/2021 21:00	2/10/2021 22:00	1278.5
2/10/2021 22:00	2/10/2021 23:00	1166.1
2/10/2021 23:00	2/11/2021 0:00	1182.5
2/11/2021 0:00	2/11/2021 1:00	1180.3
2/11/2021 1:00	2/11/2021 2:00	1168.6
2/11/2021 2:00	2/11/2021 3:00	1185.5
2/11/2021 3:00	2/11/2021 4:00	1167.9
2/11/2021 4:00	2/11/2021 5:00	1181.3
2/11/2021 5:00	2/11/2021 6:00	1241.8
2/11/2021 6:00	2/11/2021 7:00	1371.8
2/11/2021 7:00	2/11/2021 8:00	1473.7
2/11/2021 8:00	2/11/2021 9:00	1481.3
2/11/2021 9:00	2/11/2021 10:00	1390.7
2/11/2021 10:00	2/11/2021 11:00	1292.9
2/11/2021 11:00	2/11/2021 12:00	1266.1
2/11/2021 12:00	2/11/2021 13:00	1265.0
2/11/2021 13:00	2/11/2021 14:00	1207.1
2/11/2021 14:00	2/11/2021 15:00	1166.1
2/11/2021 15:00	2/11/2021 16:00	1216.7
2/11/2021 16:00	2/11/2021 17:00	1357.8
2/11/2021 17:00	2/11/2021 18:00	1526.1
2/11/2021 18:00	2/11/2021 19:00	1572.4
2/11/2021 19:00	2/11/2021 20:00	1541.7
2/11/2021 20:00	2/11/2021 21:00	1501.6
2/11/2021 21:00	2/11/2021 22:00	1406.7

Start Time	End Time	ANL_MW
2/11/2021 22:00	2/11/2021 23:00	1331.3
2/11/2021 23:00	2/12/2021 0:00	1346.7
2/12/2021 0:00	2/12/2021 1:00	1327.4
2/12/2021 1:00	2/12/2021 2:00	1378.0
2/12/2021 2:00	2/12/2021 3:00	1399.6
2/12/2021 3:00	2/12/2021 4:00	1406.6
2/12/2021 4:00	2/12/2021 5:00	1424.4
2/12/2021 5:00	2/12/2021 6:00	1407.3
2/12/2021 6:00	2/12/2021 7:00	1476.8
2/12/2021 7:00	2/12/2021 8:00	1555.5
2/12/2021 8:00	2/12/2021 9:00	1636.8
2/12/2021 9:00	2/12/2021 10:00	1613.0
2/12/2021 10:00	2/12/2021 11:00	1576.5
2/12/2021 11:00	2/12/2021 12:00	1585.6
2/12/2021 12:00	2/12/2021 13:00	1622.4
2/12/2021 13:00	2/12/2021 14:00	1596.1
2/12/2021 14:00	2/12/2021 15:00	1523.3
2/12/2021 15:00	2/12/2021 16:00	1522.5
2/12/2021 16:00	2/12/2021 17:00	1555.8
2/12/2021 17:00	2/12/2021 18:00	1617.5
2/12/2021 18:00	2/12/2021 19:00	1646.9
2/12/2021 19:00	2/12/2021 20:00	1614.7
2/12/2021 20:00	2/12/2021 21:00	1574.9
2/12/2021 21:00	2/12/2021 22:00	1517.3
2/12/2021 22:00	2/12/2021 23:00	1464.4
2/12/2021 23:00	2/13/2021 0:00	1384.0
2/13/2021 0:00	2/13/2021 1:00	1347.9
2/13/2021 1:00	2/13/2021 2:00	1362.4
2/13/2021 2:00	2/13/2021 3:00	1356.7
2/13/2021 3:00	2/13/2021 4:00	1298.0
2/13/2021 4:00	2/13/2021 5:00	1299.6
2/13/2021 5:00	2/13/2021 6:00	1297.8
2/13/2021 6:00	2/13/2021 7:00	1387.2
2/13/2021 7:00	2/13/2021 8:00	1397.8
2/13/2021 8:00	2/13/2021 9:00	1461.1
2/13/2021 9:00	2/13/2021 10:00	1473.6
2/13/2021 10:00	2/13/2021 11:00	1445.6
2/13/2021 11:00	2/13/2021 12:00	1481.8
2/13/2021 12:00	2/13/2021 13:00	1465.6
2/13/2021 13:00	2/13/2021 14:00	1380.8
2/13/2021 14:00	2/13/2021 15:00	1362.2
2/13/2021 15:00	2/13/2021 16:00	1368.9
2/13/2021 16:00	2/13/2021 17:00	1457.3
2/13/2021 17:00	2/13/2021 18:00	1526.7
2/13/2021 18:00	2/13/2021 19:00	1575.6
2/13/2021 19:00	2/13/2021 20:00	1553.2
2/13/2021 20:00	2/13/2021 21:00	1524.0
2/13/2021 21:00	2/13/2021 22:00	1495.8
2/13/2021 22:00	2/13/2021 23:00	1438.3
2/13/2021 23:00	2/14/2021 0:00	1476.1
2/14/2021 0:00	2/14/2021 1:00	1484.4
2/14/2021 1:00	2/14/2021 2:00	1441.2
2/14/2021 2:00	2/14/2021 3:00	1493.2
2/14/2021 3:00	2/14/2021 4:00	1500.3
2/14/2021 4:00	2/14/2021 5:00	1495.8
2/14/2021 5:00	2/14/2021 6:00	1435.5
2/14/2021 6:00	2/14/2021 7:00	1486.5
2/14/2021 7:00	2/14/2021 8:00	1548.2
2/14/2021 8:00	2/14/2021 9:00	1596.9
2/14/2021 9:00	2/14/2021 10:00	1640.5
2/14/2021 10:00	2/14/2021 11:00	1646.5
2/14/2021 11:00	2/14/2021 12:00	1635.8
2/14/2021 12:00	2/14/2021 13:00	1591.2
2/14/2021 13:00	2/14/2021 14:00	1537.0
2/14/2021 14:00	2/14/2021 15:00	1511.6
2/14/2021 15:00	2/14/2021 16:00	1520.3
2/14/2021 16:00	2/14/2021 17:00	1580.0
2/14/2021 17:00	2/14/2021 18:00	1628.7
2/14/2021 18:00	2/14/2021 19:00	1608.7
2/14/2021 19:00	2/14/2021 20:00	1549.3

Start Time	End Time	ANL_MW
2/14/2021 20:00	2/14/2021 21:00	1476.9
2/14/2021 21:00	2/14/2021 22:00	1405.1
2/14/2021 22:00	2/14/2021 23:00	1396.1
2/14/2021 23:00	2/15/2021 0:00	1333.0
2/15/2021 0:00	2/15/2021 1:00	1272.5
2/15/2021 1:00	2/15/2021 2:00	1259.4
2/15/2021 2:00	2/15/2021 3:00	1225.7
2/15/2021 3:00	2/15/2021 4:00	1239.0
2/15/2021 4:00	2/15/2021 5:00	1279.2
2/15/2021 5:00	2/15/2021 6:00	1260.1
2/15/2021 6:00	2/15/2021 7:00	1338.8
2/15/2021 7:00	2/15/2021 8:00	1423.2
2/15/2021 8:00	2/15/2021 9:00	1525.1
2/15/2021 9:00	2/15/2021 10:00	1563.7
2/15/2021 10:00	2/15/2021 11:00	1562.2
2/15/2021 11:00	2/15/2021 12:00	1553.2
2/15/2021 12:00	2/15/2021 13:00	1502.9
2/15/2021 13:00	2/15/2021 14:00	1455.6
2/15/2021 14:00	2/15/2021 15:00	1438.5
2/15/2021 15:00	2/15/2021 16:00	1462.8
2/15/2021 16:00	2/15/2021 17:00	1486.5
2/15/2021 17:00	2/15/2021 18:00	1539.7
2/15/2021 18:00	2/15/2021 19:00	1552.2
2/15/2021 19:00	2/15/2021 20:00	1515.1
2/15/2021 20:00	2/15/2021 21:00	1476.0
2/15/2021 21:00	2/15/2021 22:00	1445.6
2/15/2021 22:00	2/15/2021 23:00	1426.7
2/15/2021 23:00	2/16/2021 0:00	1385.7
2/16/2021 0:00	2/16/2021 1:00	1340.3
2/16/2021 1:00	2/16/2021 2:00	1319.8
2/16/2021 2:00	2/16/2021 3:00	1309.2
2/16/2021 3:00	2/16/2021 4:00	1304.4
2/16/2021 4:00	2/16/2021 5:00	1317.2
2/16/2021 5:00	2/16/2021 6:00	1356.9
2/16/2021 6:00	2/16/2021 7:00	1459.7
2/16/2021 7:00	2/16/2021 8:00	1520.6
2/16/2021 8:00	2/16/2021 9:00	1579.0
2/16/2021 9:00	2/16/2021 10:00	1647.4
2/16/2021 10:00	2/16/2021 11:00	1670.9
2/16/2021 11:00	2/16/2021 12:00	1662.5
2/16/2021 12:00	2/16/2021 13:00	1641.7
2/16/2021 13:00	2/16/2021 14:00	1548.6
2/16/2021 14:00	2/16/2021 15:00	1493.7
2/16/2021 15:00	2/16/2021 16:00	1474.9
2/16/2021 16:00	2/16/2021 17:00	1500.4
2/16/2021 17:00	2/16/2021 18:00	1388.3
2/16/2021 18:00	2/16/2021 19:00	1320.6
2/16/2021 19:00	2/16/2021 20:00	1195.6
2/16/2021 20:00	2/16/2021 21:00	1133.8
2/16/2021 21:00	2/16/2021 22:00	1104.6
2/16/2021 22:00	2/16/2021 23:00	982.7
2/16/2021 23:00	2/17/2021 0:00	922.3
2/17/2021 0:00	2/17/2021 1:00	872.9
2/17/2021 1:00	2/17/2021 2:00	811.2
2/17/2021 2:00	2/17/2021 3:00	836.9
2/17/2021 3:00	2/17/2021 4:00	851.1
2/17/2021 4:00	2/17/2021 5:00	861.7
2/17/2021 5:00	2/17/2021 6:00	887.5
2/17/2021 6:00	2/17/2021 7:00	1052.9
2/17/2021 7:00	2/17/2021 8:00	1204.3
2/17/2021 8:00	2/17/2021 9:00	1292.5
2/17/2021 9:00	2/17/2021 10:00	1324.1
2/17/2021 10:00	2/17/2021 11:00	1319.3
2/17/2021 11:00	2/17/2021 12:00	1291.3
2/17/2021 12:00	2/17/2021 13:00	1294.5
2/17/2021 13:00	2/17/2021 14:00	1248.4
2/17/2021 14:00	2/17/2021 15:00	1239.2
2/17/2021 15:00	2/17/2021 16:00	1271.7
2/17/2021 16:00	2/17/2021 17:00	1299.4
2/17/2021 17:00	2/17/2021 18:00	1367.9

Start Time	End Time	ANL_MW
2/17/2021 18:00	2/17/2021 19:00	1346.0
2/17/2021 19:00	2/17/2021 20:00	1317.6
2/17/2021 20:00	2/17/2021 21:00	1273.3
2/17/2021 21:00	2/17/2021 22:00	1198.8
2/17/2021 22:00	2/17/2021 23:00	1184.8
2/17/2021 23:00	2/18/2021 0:00	1168.9
2/18/2021 0:00	2/18/2021 1:00	1219.9
2/18/2021 1:00	2/18/2021 2:00	1242.1
2/18/2021 2:00	2/18/2021 3:00	1226.8
2/18/2021 3:00	2/18/2021 4:00	1227.7
2/18/2021 4:00	2/18/2021 5:00	1278.8
2/18/2021 5:00	2/18/2021 6:00	1350.0
2/18/2021 6:00	2/18/2021 7:00	1415.3
2/18/2021 7:00	2/18/2021 8:00	1469.7
2/18/2021 8:00	2/18/2021 9:00	1493.7
2/18/2021 9:00	2/18/2021 10:00	1419.5
2/18/2021 10:00	2/18/2021 11:00	1370.2
2/18/2021 11:00	2/18/2021 12:00	1357.6
2/18/2021 12:00	2/18/2021 13:00	1374.3
2/18/2021 13:00	2/18/2021 14:00	1357.7
2/18/2021 14:00	2/18/2021 15:00	1382.6
2/18/2021 15:00	2/18/2021 16:00	1444.5
2/18/2021 16:00	2/18/2021 17:00	1554.7
2/18/2021 17:00	2/18/2021 18:00	1668.1
2/18/2021 18:00	2/18/2021 19:00	1691.4
2/18/2021 19:00	2/18/2021 20:00	1651.2
2/18/2021 20:00	2/18/2021 21:00	1620.3
2/18/2021 21:00	2/18/2021 22:00	1567.4
2/18/2021 22:00	2/18/2021 23:00	1494.4
2/18/2021 23:00	2/19/2021 0:00	1505.0
2/19/2021 0:00	2/19/2021 1:00	1488.0
2/19/2021 1:00	2/19/2021 2:00	1455.0
2/19/2021 2:00	2/19/2021 3:00	1438.8
2/19/2021 3:00	2/19/2021 4:00	1428.6
2/19/2021 4:00	2/19/2021 5:00	1441.2
2/19/2021 5:00	2/19/2021 6:00	1492.0
2/19/2021 6:00	2/19/2021 7:00	1611.2
2/19/2021 7:00	2/19/2021 8:00	1701.6
2/19/2021 8:00	2/19/2021 9:00	1722.6
2/19/2021 9:00	2/19/2021 10:00	1676.5
2/19/2021 10:00	2/19/2021 11:00	1608.2
2/19/2021 11:00	2/19/2021 12:00	1566.5
2/19/2021 12:00	2/19/2021 13:00	1538.7
2/19/2021 13:00	2/19/2021 14:00	1487.9
2/19/2021 14:00	2/19/2021 15:00	1470.9
2/19/2021 15:00	2/19/2021 16:00	1486.6
2/19/2021 16:00	2/19/2021 17:00	1537.4
2/19/2021 17:00	2/19/2021 18:00	1598.7
2/19/2021 18:00	2/19/2021 19:00	1611.2
2/19/2021 19:00	2/19/2021 20:00	1574.0
2/19/2021 20:00	2/19/2021 21:00	1505.3
2/19/2021 21:00	2/19/2021 22:00	1446.2
2/19/2021 22:00	2/19/2021 23:00	1377.8
2/19/2021 23:00	2/20/2021 0:00	1404.3
2/20/2021 0:00	2/20/2021 1:00	1392.9
2/20/2021 1:00	2/20/2021 2:00	1366.7
2/20/2021 2:00	2/20/2021 3:00	1358.0
2/20/2021 3:00	2/20/2021 4:00	1394.7
2/20/2021 4:00	2/20/2021 5:00	1390.4
2/20/2021 5:00	2/20/2021 6:00	1405.5
2/20/2021 6:00	2/20/2021 7:00	1443.1
2/20/2021 7:00	2/20/2021 8:00	1505.6
2/20/2021 8:00	2/20/2021 9:00	1608.4
2/20/2021 9:00	2/20/2021 10:00	1665.4
2/20/2021 10:00	2/20/2021 11:00	1629.4
2/20/2021 11:00	2/20/2021 12:00	1636.4
2/20/2021 12:00	2/20/2021 13:00	1606.3
2/20/2021 13:00	2/20/2021 14:00	1550.5
2/20/2021 14:00	2/20/2021 15:00	1523.0
2/20/2021 15:00	2/20/2021 16:00	1525.2

Start Time	End Time	ANL_MW
2/20/2021 16:00	2/20/2021 17:00	1569.1
2/20/2021 17:00	2/20/2021 18:00	1584.4
2/20/2021 18:00	2/20/2021 19:00	1584.1
2/20/2021 19:00	2/20/2021 20:00	1533.9
2/20/2021 20:00	2/20/2021 21:00	1473.9
2/20/2021 21:00	2/20/2021 22:00	1448.8
2/20/2021 22:00	2/20/2021 23:00	1325.7
2/20/2021 23:00	2/21/2021 0:00	1249.2
2/21/2021 0:00	2/21/2021 1:00	1233.6
2/21/2021 1:00	2/21/2021 2:00	1207.5
2/21/2021 2:00	2/21/2021 3:00	1195.9
2/21/2021 3:00	2/21/2021 4:00	1201.9
2/21/2021 4:00	2/21/2021 5:00	1209.2
2/21/2021 5:00	2/21/2021 6:00	1165.3
2/21/2021 6:00	2/21/2021 7:00	1233.9
2/21/2021 7:00	2/21/2021 8:00	1296.5
2/21/2021 8:00	2/21/2021 9:00	1308.4
2/21/2021 9:00	2/21/2021 10:00	1313.1
2/21/2021 10:00	2/21/2021 11:00	1305.7
2/21/2021 11:00	2/21/2021 12:00	1265.7
2/21/2021 12:00	2/21/2021 13:00	1241.5
2/21/2021 13:00	2/21/2021 14:00	1186.3
2/21/2021 14:00	2/21/2021 15:00	1176.8
2/21/2021 15:00	2/21/2021 16:00	1183.3
2/21/2021 16:00	2/21/2021 17:00	1295.9
2/21/2021 17:00	2/21/2021 18:00	1433.5
2/21/2021 18:00	2/21/2021 19:00	1498.1
2/21/2021 19:00	2/21/2021 20:00	1419.2
2/21/2021 20:00	2/21/2021 21:00	1320.5
2/21/2021 21:00	2/21/2021 22:00	1249.3
2/21/2021 22:00	2/21/2021 23:00	1160.5
2/21/2021 23:00	2/22/2021 0:00	1122.8
2/22/2021 0:00	2/22/2021 1:00	1069.4
2/22/2021 1:00	2/22/2021 2:00	1060.5
2/22/2021 2:00	2/22/2021 3:00	1058.6
2/22/2021 3:00	2/22/2021 4:00	1127.1
2/22/2021 4:00	2/22/2021 5:00	1139.6
2/22/2021 5:00	2/22/2021 6:00	1194.4
2/22/2021 6:00	2/22/2021 7:00	1417.4
2/22/2021 7:00	2/22/2021 8:00	1506.1
2/22/2021 8:00	2/22/2021 9:00	1571.1
2/22/2021 9:00	2/22/2021 10:00	1556.1
2/22/2021 10:00	2/22/2021 11:00	1508.8
2/22/2021 11:00	2/22/2021 12:00	1451.4
2/22/2021 12:00	2/22/2021 13:00	1441.7
2/22/2021 13:00	2/22/2021 14:00	1389.3
2/22/2021 14:00	2/22/2021 15:00	1370.6
2/22/2021 15:00	2/22/2021 16:00	1385.7
2/22/2021 16:00	2/22/2021 17:00	1454.9
2/22/2021 17:00	2/22/2021 18:00	1522.4
2/22/2021 18:00	2/22/2021 19:00	1532.4
2/22/2021 19:00	2/22/2021 20:00	1449.2
2/22/2021 20:00	2/22/2021 21:00	1369.3
2/22/2021 21:00	2/22/2021 22:00	1296.0
2/22/2021 22:00	2/22/2021 23:00	1206.1
2/22/2021 23:00	2/23/2021 0:00	1191.0
2/23/2021 0:00	2/23/2021 1:00	1096.2
2/23/2021 1:00	2/23/2021 2:00	1029.8
2/23/2021 2:00	2/23/2021 3:00	951.7
2/23/2021 3:00	2/23/2021 4:00	927.6
2/23/2021 4:00	2/23/2021 5:00	944.1
2/23/2021 5:00	2/23/2021 6:00	951.2
2/23/2021 6:00	2/23/2021 7:00	1036.5
2/23/2021 7:00	2/23/2021 8:00	1107.5
2/23/2021 8:00	2/23/2021 9:00	1150.7
2/23/2021 9:00	2/23/2021 10:00	1220.3
2/23/2021 10:00	2/23/2021 11:00	1216.2
2/23/2021 11:00	2/23/2021 12:00	1188.6
2/23/2021 12:00	2/23/2021 13:00	1191.6
2/23/2021 13:00	2/23/2021 14:00	1159.6

Start Time	End Time	ANL_MW
2/23/2021 14:00	2/23/2021 15:00	1117.3
2/23/2021 15:00	2/23/2021 16:00	1094.6
2/23/2021 16:00	2/23/2021 17:00	1138.1
2/23/2021 17:00	2/23/2021 18:00	1254.0
2/23/2021 18:00	2/23/2021 19:00	1272.4
2/23/2021 19:00	2/23/2021 20:00	1251.2
2/23/2021 20:00	2/23/2021 21:00	1211.7
2/23/2021 21:00	2/23/2021 22:00	1135.5
2/23/2021 22:00	2/23/2021 23:00	1069.3
2/23/2021 23:00	2/24/2021 0:00	1051.4
2/24/2021 0:00	2/24/2021 1:00	1138.5
2/24/2021 1:00	2/24/2021 2:00	1168.1
2/24/2021 2:00	2/24/2021 3:00	1145.4
2/24/2021 3:00	2/24/2021 4:00	1155.9
2/24/2021 4:00	2/24/2021 5:00	1180.4
2/24/2021 5:00	2/24/2021 6:00	1179.7
2/24/2021 6:00	2/24/2021 7:00	1296.6
2/24/2021 7:00	2/24/2021 8:00	1381.5
2/24/2021 8:00	2/24/2021 9:00	1377.5
2/24/2021 9:00	2/24/2021 10:00	1334.0
2/24/2021 10:00	2/24/2021 11:00	1258.8
2/24/2021 11:00	2/24/2021 12:00	1216.0
2/24/2021 12:00	2/24/2021 13:00	1185.6
2/24/2021 13:00	2/24/2021 14:00	1177.0
2/24/2021 14:00	2/24/2021 15:00	1139.9
2/24/2021 15:00	2/24/2021 16:00	1171.7
2/24/2021 16:00	2/24/2021 17:00	1296.0
2/24/2021 17:00	2/24/2021 18:00	1317.3
2/24/2021 18:00	2/24/2021 19:00	1354.4
2/24/2021 19:00	2/24/2021 20:00	1322.3
2/24/2021 20:00	2/24/2021 21:00	1258.6
2/24/2021 21:00	2/24/2021 22:00	1163.6
2/24/2021 22:00	2/24/2021 23:00	1145.9
2/24/2021 23:00	2/25/2021 0:00	1114.9
2/25/2021 0:00	2/25/2021 1:00	1069.5
2/25/2021 1:00	2/25/2021 2:00	1051.2
2/25/2021 2:00	2/25/2021 3:00	1006.4
2/25/2021 3:00	2/25/2021 4:00	950.3
2/25/2021 4:00	2/25/2021 5:00	955.1
2/25/2021 5:00	2/25/2021 6:00	998.8
2/25/2021 6:00	2/25/2021 7:00	1079.4
2/25/2021 7:00	2/25/2021 8:00	1185.7
2/25/2021 8:00	2/25/2021 9:00	1185.8
2/25/2021 9:00	2/25/2021 10:00	1155.7
2/25/2021 10:00	2/25/2021 11:00	1134.4
2/25/2021 11:00	2/25/2021 12:00	1093.7
2/25/2021 12:00	2/25/2021 13:00	1096.8
2/25/2021 13:00	2/25/2021 14:00	1069.4
2/25/2021 14:00	2/25/2021 15:00	1041.9
2/25/2021 15:00	2/25/2021 16:00	1066.6
2/25/2021 16:00	2/25/2021 17:00	1077.4
2/25/2021 17:00	2/25/2021 18:00	1109.1
2/25/2021 18:00	2/25/2021 19:00	1172.7
2/25/2021 19:00	2/25/2021 20:00	1172.0
2/25/2021 20:00	2/25/2021 21:00	1142.9
2/25/2021 21:00	2/25/2021 22:00	1073.6
2/25/2021 22:00	2/25/2021 23:00	995.5
2/25/2021 23:00	2/26/2021 0:00	989.8
2/26/2021 0:00	2/26/2021 1:00	970.9
2/26/2021 1:00	2/26/2021 2:00	956.4
2/26/2021 2:00	2/26/2021 3:00	946.4
2/26/2021 3:00	2/26/2021 4:00	935.9
2/26/2021 4:00	2/26/2021 5:00	978.4
2/26/2021 5:00	2/26/2021 6:00	1052.5
2/26/2021 6:00	2/26/2021 7:00	1193.1
2/26/2021 7:00	2/26/2021 8:00	1324.7
2/26/2021 8:00	2/26/2021 9:00	1346.5
2/26/2021 9:00	2/26/2021 10:00	1306.5
2/26/2021 10:00	2/26/2021 11:00	1277.8
2/26/2021 11:00	2/26/2021 12:00	1278.2

Start Time	End Time	ANL_MW
2/26/2021 12:00	2/26/2021 13:00	1276.2
2/26/2021 13:00	2/26/2021 14:00	1203.8
2/26/2021 14:00	2/26/2021 15:00	1128.1
2/26/2021 15:00	2/26/2021 16:00	1157.5
2/26/2021 16:00	2/26/2021 17:00	1227.8
2/26/2021 17:00	2/26/2021 18:00	1351.2
2/26/2021 18:00	2/26/2021 19:00	1395.1
2/26/2021 19:00	2/26/2021 20:00	1371.3
2/26/2021 20:00	2/26/2021 21:00	1366.3
2/26/2021 21:00	2/26/2021 22:00	1339.5
2/26/2021 22:00	2/26/2021 23:00	1333.4
2/26/2021 23:00	2/27/2021 0:00	1436.6
2/27/2021 0:00	2/27/2021 1:00	1475.4
2/27/2021 1:00	2/27/2021 2:00	1499.9
2/27/2021 2:00	2/27/2021 3:00	1528.0
2/27/2021 3:00	2/27/2021 4:00	1521.6
2/27/2021 4:00	2/27/2021 5:00	1449.1
2/27/2021 5:00	2/27/2021 6:00	1423.0
2/27/2021 6:00	2/27/2021 7:00	1470.2
2/27/2021 7:00	2/27/2021 8:00	1549.3
2/27/2021 8:00	2/27/2021 9:00	1527.4
2/27/2021 9:00	2/27/2021 10:00	1503.1
2/27/2021 10:00	2/27/2021 11:00	1434.4
2/27/2021 11:00	2/27/2021 12:00	1377.5
2/27/2021 12:00	2/27/2021 13:00	1316.4
2/27/2021 13:00	2/27/2021 14:00	1208.7
2/27/2021 14:00	2/27/2021 15:00	1115.7
2/27/2021 15:00	2/27/2021 16:00	1110.5
2/27/2021 16:00	2/27/2021 17:00	1134.0
2/27/2021 17:00	2/27/2021 18:00	1173.9
2/27/2021 18:00	2/27/2021 19:00	1174.7
2/27/2021 19:00	2/27/2021 20:00	1106.8
2/27/2021 20:00	2/27/2021 21:00	1040.5
2/27/2021 21:00	2/27/2021 22:00	979.5
2/27/2021 22:00	2/27/2021 23:00	894.8
2/27/2021 23:00	2/28/2021 0:00	838.5
2/28/2021 0:00	2/28/2021 1:00	837.3
2/28/2021 1:00	2/28/2021 2:00	797.1
2/28/2021 2:00	2/28/2021 3:00	835.2
2/28/2021 3:00	2/28/2021 4:00	822.5
2/28/2021 4:00	2/28/2021 5:00	811.3
2/28/2021 5:00	2/28/2021 6:00	821.9
2/28/2021 6:00	2/28/2021 7:00	853.8
2/28/2021 7:00	2/28/2021 8:00	945.5
2/28/2021 8:00	2/28/2021 9:00	999.1
2/28/2021 9:00	2/28/2021 10:00	1026.7
2/28/2021 10:00	2/28/2021 11:00	987.3
2/28/2021 11:00	2/28/2021 12:00	996.9
2/28/2021 12:00	2/28/2021 13:00	970.3
2/28/2021 13:00	2/28/2021 14:00	996.5
2/28/2021 14:00	2/28/2021 15:00	1048.7
2/28/2021 15:00	2/28/2021 16:00	1071.0
2/28/2021 16:00	2/28/2021 17:00	1181.6
2/28/2021 17:00	2/28/2021 18:00	1268.0
2/28/2021 18:00	2/28/2021 19:00	1335.1
2/28/2021 19:00	2/28/2021 20:00	1342.6
2/28/2021 20:00	2/28/2021 21:00	1308.7
2/28/2021 21:00	2/28/2021 22:00	1262.5
2/28/2021 22:00	2/28/2021 23:00	1276.5
2/28/2021 23:00	3/1/2021 0:00	1250.3
3/1/2021 0:00	3/1/2021 1:00	1208.8
3/1/2021 1:00	3/1/2021 2:00	1174.2
3/1/2021 2:00	3/1/2021 3:00	1140.9
3/1/2021 3:00	3/1/2021 4:00	1108.0
3/1/2021 4:00	3/1/2021 5:00	1092.1
3/1/2021 5:00	3/1/2021 6:00	1110.8
3/1/2021 6:00	3/1/2021 7:00	1198.5
3/1/2021 7:00	3/1/2021 8:00	1236.2
3/1/2021 8:00	3/1/2021 9:00	1253.6
3/1/2021 9:00	3/1/2021 10:00	1236.6

Start Time	End Time	ANL_MW
3/1/2021 10:00	3/1/2021 11:00	1205.9
3/1/2021 11:00	3/1/2021 12:00	1181.2
3/1/2021 12:00	3/1/2021 13:00	1157.5
3/1/2021 13:00	3/1/2021 14:00	1125.7
3/1/2021 14:00	3/1/2021 15:00	1114.9
3/1/2021 15:00	3/1/2021 16:00	1144.7
3/1/2021 16:00	3/1/2021 17:00	1215.5
3/1/2021 17:00	3/1/2021 18:00	1224.0
3/1/2021 18:00	3/1/2021 19:00	1239.5
3/1/2021 19:00	3/1/2021 20:00	1217.2
3/1/2021 20:00	3/1/2021 21:00	1196.9
3/1/2021 21:00	3/1/2021 22:00	1101.4
3/1/2021 22:00	3/1/2021 23:00	995.9
3/1/2021 23:00	3/2/2021 0:00	928.1
3/2/2021 0:00	3/2/2021 1:00	875.8
3/2/2021 1:00	3/2/2021 2:00	873.2
3/2/2021 2:00	3/2/2021 3:00	885.7
3/2/2021 3:00	3/2/2021 4:00	881.7
3/2/2021 4:00	3/2/2021 5:00	948.6
3/2/2021 5:00	3/2/2021 6:00	970.7
3/2/2021 6:00	3/2/2021 7:00	1094.7
3/2/2021 7:00	3/2/2021 8:00	1187.1
3/2/2021 8:00	3/2/2021 9:00	1228.6
3/2/2021 9:00	3/2/2021 10:00	1239.4
3/2/2021 10:00	3/2/2021 11:00	1268.4
3/2/2021 11:00	3/2/2021 12:00	1314.9
3/2/2021 12:00	3/2/2021 13:00	1363.7
3/2/2021 13:00	3/2/2021 14:00	1376.5
3/2/2021 14:00	3/2/2021 15:00	1397.9
3/2/2021 15:00	3/2/2021 16:00	1385.4
3/2/2021 16:00	3/2/2021 17:00	1420.6
3/2/2021 17:00	3/2/2021 18:00	1489.2
3/2/2021 18:00	3/2/2021 19:00	1528.6
3/2/2021 19:00	3/2/2021 20:00	1536.7
3/2/2021 20:00	3/2/2021 21:00	1468.0
3/2/2021 21:00	3/2/2021 22:00	1385.8
3/2/2021 22:00	3/2/2021 23:00	1300.4
3/2/2021 23:00	3/3/2021 0:00	1236.8
3/3/2021 0:00	3/3/2021 1:00	1202.5
3/3/2021 1:00	3/3/2021 2:00	1181.1
3/3/2021 2:00	3/3/2021 3:00	1154.4
3/3/2021 3:00	3/3/2021 4:00	1147.1
3/3/2021 4:00	3/3/2021 5:00	1154.7
3/3/2021 5:00	3/3/2021 6:00	1224.0
3/3/2021 6:00	3/3/2021 7:00	1325.1
3/3/2021 7:00	3/3/2021 8:00	1379.3
3/3/2021 8:00	3/3/2021 9:00	1339.9
3/3/2021 9:00	3/3/2021 10:00	1296.5
3/3/2021 10:00	3/3/2021 11:00	1273.1
3/3/2021 11:00	3/3/2021 12:00	1271.2
3/3/2021 12:00	3/3/2021 13:00	1252.6
3/3/2021 13:00	3/3/2021 14:00	1195.2
3/3/2021 14:00	3/3/2021 15:00	1158.4
3/3/2021 15:00	3/3/2021 16:00	1171.5
3/3/2021 16:00	3/3/2021 17:00	1208.2
3/3/2021 17:00	3/3/2021 18:00	1261.4
3/3/2021 18:00	3/3/2021 19:00	1323.3
3/3/2021 19:00	3/3/2021 20:00	1293.4
3/3/2021 20:00	3/3/2021 21:00	1210.4
3/3/2021 21:00	3/3/2021 22:00	1125.7
3/3/2021 22:00	3/3/2021 23:00	1049.9
3/3/2021 23:00	3/4/2021 0:00	1070.9
3/4/2021 0:00	3/4/2021 1:00	1083.6
3/4/2021 1:00	3/4/2021 2:00	1069.2
3/4/2021 2:00	3/4/2021 3:00	1032.5
3/4/2021 3:00	3/4/2021 4:00	1021.0
3/4/2021 4:00	3/4/2021 5:00	1014.1
3/4/2021 5:00	3/4/2021 6:00	1073.0
3/4/2021 6:00	3/4/2021 7:00	1178.8
3/4/2021 7:00	3/4/2021 8:00	1247.6

Start Time	End Time	ANL_MW
3/4/2021 8:00	3/4/2021 9:00	1214.4
3/4/2021 9:00	3/4/2021 10:00	1161.6
3/4/2021 10:00	3/4/2021 11:00	1168.5
3/4/2021 11:00	3/4/2021 12:00	1134.1
3/4/2021 12:00	3/4/2021 13:00	1114.5
3/4/2021 13:00	3/4/2021 14:00	1055.5
3/4/2021 14:00	3/4/2021 15:00	996.2
3/4/2021 15:00	3/4/2021 16:00	993.2
3/4/2021 16:00	3/4/2021 17:00	1053.9
3/4/2021 17:00	3/4/2021 18:00	1155.0
3/4/2021 18:00	3/4/2021 19:00	1256.1
3/4/2021 19:00	3/4/2021 20:00	1302.5
3/4/2021 20:00	3/4/2021 21:00	1242.4
3/4/2021 21:00	3/4/2021 22:00	1201.1
3/4/2021 22:00	3/4/2021 23:00	1158.3
3/4/2021 23:00	3/5/2021 0:00	1152.0
3/5/2021 0:00	3/5/2021 1:00	1169.5
3/5/2021 1:00	3/5/2021 2:00	1268.9
3/5/2021 2:00	3/5/2021 3:00	1285.7
3/5/2021 3:00	3/5/2021 4:00	1291.3
3/5/2021 4:00	3/5/2021 5:00	1302.7
3/5/2021 5:00	3/5/2021 6:00	1400.0
3/5/2021 6:00	3/5/2021 7:00	1459.6
3/5/2021 7:00	3/5/2021 8:00	1526.3
3/5/2021 8:00	3/5/2021 9:00	1533.3
3/5/2021 9:00	3/5/2021 10:00	1470.6
3/5/2021 10:00	3/5/2021 11:00	1460.7
3/5/2021 11:00	3/5/2021 12:00	1451.7
3/5/2021 12:00	3/5/2021 13:00	1427.0
3/5/2021 13:00	3/5/2021 14:00	1373.9
3/5/2021 14:00	3/5/2021 15:00	1380.8
3/5/2021 15:00	3/5/2021 16:00	1396.5
3/5/2021 16:00	3/5/2021 17:00	1440.0
3/5/2021 17:00	3/5/2021 18:00	1522.3
3/5/2021 18:00	3/5/2021 19:00	1580.7
3/5/2021 19:00	3/5/2021 20:00	1534.9
3/5/2021 20:00	3/5/2021 21:00	1433.2
3/5/2021 21:00	3/5/2021 22:00	1353.2
3/5/2021 22:00	3/5/2021 23:00	1290.9
3/5/2021 23:00	3/6/2021 0:00	1328.9
3/6/2021 0:00	3/6/2021 1:00	1351.2
3/6/2021 1:00	3/6/2021 2:00	1330.5
3/6/2021 2:00	3/6/2021 3:00	1300.7
3/6/2021 3:00	3/6/2021 4:00	1278.6
3/6/2021 4:00	3/6/2021 5:00	1272.9
3/6/2021 5:00	3/6/2021 6:00	1290.4
3/6/2021 6:00	3/6/2021 7:00	1268.8
3/6/2021 7:00	3/6/2021 8:00	1324.4
3/6/2021 8:00	3/6/2021 9:00	1354.6
3/6/2021 9:00	3/6/2021 10:00	1336.5
3/6/2021 10:00	3/6/2021 11:00	1323.6
3/6/2021 11:00	3/6/2021 12:00	1290.5
3/6/2021 12:00	3/6/2021 13:00	1283.3
3/6/2021 13:00	3/6/2021 14:00	1252.1
3/6/2021 14:00	3/6/2021 15:00	1253.9
3/6/2021 15:00	3/6/2021 16:00	1252.0
3/6/2021 16:00	3/6/2021 17:00	1286.0
3/6/2021 17:00	3/6/2021 18:00	1330.6
3/6/2021 18:00	3/6/2021 19:00	1404.2
3/6/2021 19:00	3/6/2021 20:00	1380.8
3/6/2021 20:00	3/6/2021 21:00	1339.6
3/6/2021 21:00	3/6/2021 22:00	1301.2
3/6/2021 22:00	3/6/2021 23:00	1261.1
3/6/2021 23:00	3/7/2021 0:00	1243.8
3/7/2021 0:00	3/7/2021 1:00	1213.6
3/7/2021 1:00	3/7/2021 2:00	1243.9
3/7/2021 2:00	3/7/2021 3:00	1269.6
3/7/2021 3:00	3/7/2021 4:00	1285.8
3/7/2021 4:00	3/7/2021 5:00	1325.5
3/7/2021 5:00	3/7/2021 6:00	1374.1

Start Time	End Time	ANL_MW
3/7/2021 6:00	3/7/2021 7:00	1431.0
3/7/2021 7:00	3/7/2021 8:00	1483.1
3/7/2021 8:00	3/7/2021 9:00	1507.1
3/7/2021 9:00	3/7/2021 10:00	1470.2
3/7/2021 10:00	3/7/2021 11:00	1437.0
3/7/2021 11:00	3/7/2021 12:00	1476.8
3/7/2021 12:00	3/7/2021 13:00	1431.0
3/7/2021 13:00	3/7/2021 14:00	1377.9
3/7/2021 14:00	3/7/2021 15:00	1334.2
3/7/2021 15:00	3/7/2021 16:00	1356.1
3/7/2021 16:00	3/7/2021 17:00	1438.5
3/7/2021 17:00	3/7/2021 18:00	1520.0
3/7/2021 18:00	3/7/2021 19:00	1566.0
3/7/2021 19:00	3/7/2021 20:00	1589.2
3/7/2021 20:00	3/7/2021 21:00	1563.5
3/7/2021 21:00	3/7/2021 22:00	1561.8
3/7/2021 22:00	3/7/2021 23:00	1481.1
3/7/2021 23:00	3/8/2021 0:00	1452.6
3/8/2021 0:00	3/8/2021 1:00	1428.2
3/8/2021 1:00	3/8/2021 2:00	1416.6
3/8/2021 2:00	3/8/2021 3:00	1443.8
3/8/2021 3:00	3/8/2021 4:00	1414.5
3/8/2021 4:00	3/8/2021 5:00	1431.6
3/8/2021 5:00	3/8/2021 6:00	1458.6
3/8/2021 6:00	3/8/2021 7:00	1597.1
3/8/2021 7:00	3/8/2021 8:00	1662.7
3/8/2021 8:00	3/8/2021 9:00	1631.5
3/8/2021 9:00	3/8/2021 10:00	1574.2
3/8/2021 10:00	3/8/2021 11:00	1506.1
3/8/2021 11:00	3/8/2021 12:00	1468.7
3/8/2021 12:00	3/8/2021 13:00	1450.6
3/8/2021 13:00	3/8/2021 14:00	1369.6
3/8/2021 14:00	3/8/2021 15:00	1280.1
3/8/2021 15:00	3/8/2021 16:00	1274.5
3/8/2021 16:00	3/8/2021 17:00	1297.7
3/8/2021 17:00	3/8/2021 18:00	1346.4
3/8/2021 18:00	3/8/2021 19:00	1429.4
3/8/2021 19:00	3/8/2021 20:00	1460.7
3/8/2021 20:00	3/8/2021 21:00	1458.4
3/8/2021 21:00	3/8/2021 22:00	1435.0
3/8/2021 22:00	3/8/2021 23:00	1419.0
3/8/2021 23:00	3/9/2021 0:00	1410.7
3/9/2021 0:00	3/9/2021 1:00	1417.8
3/9/2021 1:00	3/9/2021 2:00	1384.9
3/9/2021 2:00	3/9/2021 3:00	1335.4
3/9/2021 3:00	3/9/2021 4:00	1306.3
3/9/2021 4:00	3/9/2021 5:00	1331.0
3/9/2021 5:00	3/9/2021 6:00	1329.8
3/9/2021 6:00	3/9/2021 7:00	1482.9
3/9/2021 7:00	3/9/2021 8:00	1554.6
3/9/2021 8:00	3/9/2021 9:00	1515.4
3/9/2021 9:00	3/9/2021 10:00	1495.9
3/9/2021 10:00	3/9/2021 11:00	1443.5
3/9/2021 11:00	3/9/2021 12:00	1391.9
3/9/2021 12:00	3/9/2021 13:00	1371.1
3/9/2021 13:00	3/9/2021 14:00	1360.0
3/9/2021 14:00	3/9/2021 15:00	1364.0
3/9/2021 15:00	3/9/2021 16:00	1382.4
3/9/2021 16:00	3/9/2021 17:00	1460.4
3/9/2021 17:00	3/9/2021 18:00	1496.4
3/9/2021 18:00	3/9/2021 19:00	1485.1
3/9/2021 19:00	3/9/2021 20:00	1473.9
3/9/2021 20:00	3/9/2021 21:00	1452.1
3/9/2021 21:00	3/9/2021 22:00	1411.7
3/9/2021 22:00	3/9/2021 23:00	1311.1
3/9/2021 23:00	3/10/2021 0:00	1278.7
3/10/2021 0:00	3/10/2021 1:00	1238.2
3/10/2021 1:00	3/10/2021 2:00	1232.2
3/10/2021 2:00	3/10/2021 3:00	1216.8
3/10/2021 3:00	3/10/2021 4:00	1246.4

Start Time	End Time	ANL_MW
3/10/2021 4:00	3/10/2021 5:00	1288.6
3/10/2021 5:00	3/10/2021 6:00	1293.2
3/10/2021 6:00	3/10/2021 7:00	1387.2
3/10/2021 7:00	3/10/2021 8:00	1483.7
3/10/2021 8:00	3/10/2021 9:00	1497.3
3/10/2021 9:00	3/10/2021 10:00	1473.9
3/10/2021 10:00	3/10/2021 11:00	1427.9
3/10/2021 11:00	3/10/2021 12:00	1400.3
3/10/2021 12:00	3/10/2021 13:00	1370.9
3/10/2021 13:00	3/10/2021 14:00	1349.5
3/10/2021 14:00	3/10/2021 15:00	1322.6
3/10/2021 15:00	3/10/2021 16:00	1323.3
3/10/2021 16:00	3/10/2021 17:00	1369.5
3/10/2021 17:00	3/10/2021 18:00	1442.0
3/10/2021 18:00	3/10/2021 19:00	1473.7
3/10/2021 19:00	3/10/2021 20:00	1443.0
3/10/2021 20:00	3/10/2021 21:00	1351.5
3/10/2021 21:00	3/10/2021 22:00	1230.5
3/10/2021 22:00	3/10/2021 23:00	1137.0
3/10/2021 23:00	3/11/2021 0:00	1070.5
3/11/2021 0:00	3/11/2021 1:00	1037.8
3/11/2021 1:00	3/11/2021 2:00	980.4
3/11/2021 2:00	3/11/2021 3:00	921.5
3/11/2021 3:00	3/11/2021 4:00	914.7
3/11/2021 4:00	3/11/2021 5:00	932.9
3/11/2021 5:00	3/11/2021 6:00	999.3
3/11/2021 6:00	3/11/2021 7:00	1145.5
3/11/2021 7:00	3/11/2021 8:00	1229.8
3/11/2021 8:00	3/11/2021 9:00	1180.8
3/11/2021 9:00	3/11/2021 10:00	1190.8
3/11/2021 10:00	3/11/2021 11:00	1156.8
3/11/2021 11:00	3/11/2021 12:00	1079.4
3/11/2021 12:00	3/11/2021 13:00	1034.4
3/11/2021 13:00	3/11/2021 14:00	980.1
3/11/2021 14:00	3/11/2021 15:00	956.5
3/11/2021 15:00	3/11/2021 16:00	970.8
3/11/2021 16:00	3/11/2021 17:00	994.9
3/11/2021 17:00	3/11/2021 18:00	1010.4
3/11/2021 18:00	3/11/2021 19:00	996.2
3/11/2021 19:00	3/11/2021 20:00	975.6
3/11/2021 20:00	3/11/2021 21:00	937.0
3/11/2021 21:00	3/11/2021 22:00	859.1
3/11/2021 22:00	3/11/2021 23:00	803.9
3/11/2021 23:00	3/12/2021 0:00	764.3
3/12/2021 0:00	3/12/2021 1:00	725.5
3/12/2021 1:00	3/12/2021 2:00	687.6
3/12/2021 2:00	3/12/2021 3:00	644.4
3/12/2021 3:00	3/12/2021 4:00	656.0
3/12/2021 4:00	3/12/2021 5:00	673.8
3/12/2021 5:00	3/12/2021 6:00	695.2
3/12/2021 6:00	3/12/2021 7:00	802.3
3/12/2021 7:00	3/12/2021 8:00	916.5
3/12/2021 8:00	3/12/2021 9:00	953.2
3/12/2021 9:00	3/12/2021 10:00	924.9
3/12/2021 10:00	3/12/2021 11:00	901.7
3/12/2021 11:00	3/12/2021 12:00	880.8
3/12/2021 12:00	3/12/2021 13:00	914.9
3/12/2021 13:00	3/12/2021 14:00	872.0
3/12/2021 14:00	3/12/2021 15:00	843.5
3/12/2021 15:00	3/12/2021 16:00	802.3
3/12/2021 16:00	3/12/2021 17:00	823.2
3/12/2021 17:00	3/12/2021 18:00	795.0
3/12/2021 18:00	3/12/2021 19:00	855.1
3/12/2021 19:00	3/12/2021 20:00	879.7
3/12/2021 20:00	3/12/2021 21:00	864.7
3/12/2021 21:00	3/12/2021 22:00	854.3
3/12/2021 22:00	3/12/2021 23:00	809.6
3/12/2021 23:00	3/13/2021 0:00	821.9
3/13/2021 0:00	3/13/2021 1:00	877.3
3/13/2021 1:00	3/13/2021 2:00	899.1

Start Time	End Time	ANL_MW
3/13/2021 2:00	3/13/2021 3:00	879.1
3/13/2021 3:00	3/13/2021 4:00	852.9
3/13/2021 4:00	3/13/2021 5:00	880.4
3/13/2021 5:00	3/13/2021 6:00	880.9
3/13/2021 6:00	3/13/2021 7:00	876.8
3/13/2021 7:00	3/13/2021 8:00	879.4
3/13/2021 8:00	3/13/2021 9:00	914.5
3/13/2021 9:00	3/13/2021 10:00	953.3
3/13/2021 10:00	3/13/2021 11:00	993.9
3/13/2021 11:00	3/13/2021 12:00	983.0
3/13/2021 12:00	3/13/2021 13:00	972.5
3/13/2021 13:00	3/13/2021 14:00	955.2
3/13/2021 14:00	3/13/2021 15:00	920.7
3/13/2021 15:00	3/13/2021 16:00	890.8
3/13/2021 16:00	3/13/2021 17:00	924.8
3/13/2021 17:00	3/13/2021 18:00	998.8
3/13/2021 18:00	3/13/2021 19:00	1094.4
3/13/2021 19:00	3/13/2021 20:00	1123.1
3/13/2021 20:00	3/13/2021 21:00	1111.3
3/13/2021 21:00	3/13/2021 22:00	1096.0
3/13/2021 22:00	3/13/2021 23:00	1064.4
3/13/2021 23:00	3/14/2021 0:00	1061.6
3/14/2021 0:00	3/14/2021 1:00	1042.2
3/14/2021 1:00	3/14/2021 1:59	1050.4
3/14/2021 1:59	3/14/2021 4:00	1070.6
3/14/2021 4:00	3/14/2021 5:00	1104.0
3/14/2021 5:00	3/14/2021 6:00	1164.6
3/14/2021 6:00	3/14/2021 7:00	1149.5
3/14/2021 7:00	3/14/2021 8:00	1208.3
3/14/2021 8:00	3/14/2021 9:00	1262.4
3/14/2021 9:00	3/14/2021 10:00	1296.3
3/14/2021 10:00	3/14/2021 11:00	1277.3
3/14/2021 11:00	3/14/2021 12:00	1241.1
3/14/2021 12:00	3/14/2021 13:00	1237.0
3/14/2021 13:00	3/14/2021 14:00	1232.8
3/14/2021 14:00	3/14/2021 15:00	1213.4
3/14/2021 15:00	3/14/2021 16:00	1225.0
3/14/2021 16:00	3/14/2021 17:00	1202.8
3/14/2021 17:00	3/14/2021 18:00	1256.4
3/14/2021 18:00	3/14/2021 19:00	1296.5
3/14/2021 19:00	3/14/2021 20:00	1419.0
3/14/2021 20:00	3/14/2021 21:00	1439.3
3/14/2021 21:00	3/14/2021 22:00	1362.4
3/14/2021 22:00	3/14/2021 23:00	1275.4
3/14/2021 23:00	3/15/2021 0:00	1165.7
3/15/2021 0:00	3/15/2021 1:00	1158.5
3/15/2021 1:00	3/15/2021 2:00	1101.9
3/15/2021 2:00	3/15/2021 3:00	1133.9
3/15/2021 3:00	3/15/2021 4:00	1139.0
3/15/2021 4:00	3/15/2021 5:00	1182.5
3/15/2021 5:00	3/15/2021 6:00	1245.5
3/15/2021 6:00	3/15/2021 7:00	1266.3
3/15/2021 7:00	3/15/2021 8:00	1329.0
3/15/2021 8:00	3/15/2021 9:00	1332.2
3/15/2021 9:00	3/15/2021 10:00	1282.5
3/15/2021 10:00	3/15/2021 11:00	1253.7
3/15/2021 11:00	3/15/2021 12:00	1236.8
3/15/2021 12:00	3/15/2021 13:00	1254.5
3/15/2021 13:00	3/15/2021 14:00	1292.5
3/15/2021 14:00	3/15/2021 15:00	1271.4
3/15/2021 15:00	3/15/2021 16:00	1261.3
3/15/2021 16:00	3/15/2021 17:00	1289.3
3/15/2021 17:00	3/15/2021 18:00	1334.6
3/15/2021 18:00	3/15/2021 19:00	1315.9
3/15/2021 19:00	3/15/2021 20:00	1365.6
3/15/2021 20:00	3/15/2021 21:00	1383.4
3/15/2021 21:00	3/15/2021 22:00	1324.8
3/15/2021 22:00	3/15/2021 23:00	1255.2
3/15/2021 23:00	3/16/2021 0:00	1224.5
3/16/2021 0:00	3/16/2021 1:00	1228.8

Start Time	End Time	ANL_MW
3/16/2021 1:00	3/16/2021 2:00	1210.3
3/16/2021 2:00	3/16/2021 3:00	1178.5
3/16/2021 3:00	3/16/2021 4:00	1206.3
3/16/2021 4:00	3/16/2021 5:00	1231.0
3/16/2021 5:00	3/16/2021 6:00	1258.2
3/16/2021 6:00	3/16/2021 7:00	1318.2
3/16/2021 7:00	3/16/2021 8:00	1408.2
3/16/2021 8:00	3/16/2021 9:00	1442.2
3/16/2021 9:00	3/16/2021 10:00	1394.6
3/16/2021 10:00	3/16/2021 11:00	1368.2
3/16/2021 11:00	3/16/2021 12:00	1330.7
3/16/2021 12:00	3/16/2021 13:00	1371.0
3/16/2021 13:00	3/16/2021 14:00	1336.5
3/16/2021 14:00	3/16/2021 15:00	1255.0
3/16/2021 15:00	3/16/2021 16:00	1204.3
3/16/2021 16:00	3/16/2021 17:00	1217.5
3/16/2021 17:00	3/16/2021 18:00	1272.8
3/16/2021 18:00	3/16/2021 19:00	1353.1
3/16/2021 19:00	3/16/2021 20:00	1483.9
3/16/2021 20:00	3/16/2021 21:00	1542.5
3/16/2021 21:00	3/16/2021 22:00	1535.2
3/16/2021 22:00	3/16/2021 23:00	1466.4
3/16/2021 23:00	3/17/2021 0:00	1449.2
3/17/2021 0:00	3/17/2021 1:00	1471.3
3/17/2021 1:00	3/17/2021 2:00	1456.7
3/17/2021 2:00	3/17/2021 3:00	1437.5
3/17/2021 3:00	3/17/2021 4:00	1424.5
3/17/2021 4:00	3/17/2021 5:00	1433.6
3/17/2021 5:00	3/17/2021 6:00	1459.8
3/17/2021 6:00	3/17/2021 7:00	1507.1
3/17/2021 7:00	3/17/2021 8:00	1523.1
3/17/2021 8:00	3/17/2021 9:00	1484.9
3/17/2021 9:00	3/17/2021 10:00	1440.0
3/17/2021 10:00	3/17/2021 11:00	1393.0
3/17/2021 11:00	3/17/2021 12:00	1298.8
3/17/2021 12:00	3/17/2021 13:00	1200.4
3/17/2021 13:00	3/17/2021 14:00	1181.0
3/17/2021 14:00	3/17/2021 15:00	1120.8
3/17/2021 15:00	3/17/2021 16:00	1130.9
3/17/2021 16:00	3/17/2021 17:00	1145.3
3/17/2021 17:00	3/17/2021 18:00	1171.0
3/17/2021 18:00	3/17/2021 19:00	1183.5
3/17/2021 19:00	3/17/2021 20:00	1256.6
3/17/2021 20:00	3/17/2021 21:00	1260.1
3/17/2021 21:00	3/17/2021 22:00	1191.6
3/17/2021 22:00	3/17/2021 23:00	1113.7
3/17/2021 23:00	3/18/2021 0:00	1110.7
3/18/2021 0:00	3/18/2021 1:00	1112.3
3/18/2021 1:00	3/18/2021 2:00	1112.7
3/18/2021 2:00	3/18/2021 3:00	1108.5
3/18/2021 3:00	3/18/2021 4:00	1092.7
3/18/2021 4:00	3/18/2021 5:00	1113.3
3/18/2021 5:00	3/18/2021 6:00	1118.1
3/18/2021 6:00	3/18/2021 7:00	1164.3
3/18/2021 7:00	3/18/2021 8:00	1195.9
3/18/2021 8:00	3/18/2021 9:00	1205.0
3/18/2021 9:00	3/18/2021 10:00	1211.8
3/18/2021 10:00	3/18/2021 11:00	1175.9
3/18/2021 11:00	3/18/2021 12:00	1111.1
3/18/2021 12:00	3/18/2021 13:00	1175.4
3/18/2021 13:00	3/18/2021 14:00	1161.0
3/18/2021 14:00	3/18/2021 15:00	1120.2
3/18/2021 15:00	3/18/2021 16:00	1146.3
3/18/2021 16:00	3/18/2021 17:00	1182.0
3/18/2021 17:00	3/18/2021 18:00	1221.4
3/18/2021 18:00	3/18/2021 19:00	1232.1
3/18/2021 19:00	3/18/2021 20:00	1299.2
3/18/2021 20:00	3/18/2021 21:00	1294.6
3/18/2021 21:00	3/18/2021 22:00	1255.4
3/18/2021 22:00	3/18/2021 23:00	1215.6

Start Time	End Time	ANL_MW
3/18/2021 23:00	3/19/2021 0:00	1176.0
3/19/2021 0:00	3/19/2021 1:00	1133.4
3/19/2021 1:00	3/19/2021 2:00	1060.4
3/19/2021 2:00	3/19/2021 3:00	968.1
3/19/2021 3:00	3/19/2021 4:00	973.2
3/19/2021 4:00	3/19/2021 5:00	961.4
3/19/2021 5:00	3/19/2021 6:00	1000.9
3/19/2021 6:00	3/19/2021 7:00	1057.0
3/19/2021 7:00	3/19/2021 8:00	1113.8
3/19/2021 8:00	3/19/2021 9:00	1203.8
3/19/2021 9:00	3/19/2021 10:00	1264.5
3/19/2021 10:00	3/19/2021 11:00	1317.6
3/19/2021 11:00	3/19/2021 12:00	1365.3
3/19/2021 12:00	3/19/2021 13:00	1414.3
3/19/2021 13:00	3/19/2021 14:00	1390.2
3/19/2021 14:00	3/19/2021 15:00	1298.4
3/19/2021 15:00	3/19/2021 16:00	1259.3
3/19/2021 16:00	3/19/2021 17:00	1191.6
3/19/2021 17:00	3/19/2021 18:00	1193.7
3/19/2021 18:00	3/19/2021 19:00	1197.6
3/19/2021 19:00	3/19/2021 20:00	1257.2
3/19/2021 20:00	3/19/2021 21:00	1268.3
3/19/2021 21:00	3/19/2021 22:00	1315.0
3/19/2021 22:00	3/19/2021 23:00	1254.4
3/19/2021 23:00	3/20/2021 0:00	1226.6
3/20/2021 0:00	3/20/2021 1:00	1248.2
3/20/2021 1:00	3/20/2021 2:00	1232.1
3/20/2021 2:00	3/20/2021 3:00	1215.7
3/20/2021 3:00	3/20/2021 4:00	1218.2
3/20/2021 4:00	3/20/2021 5:00	1281.1
3/20/2021 5:00	3/20/2021 6:00	1361.2
3/20/2021 6:00	3/20/2021 7:00	1463.0
3/20/2021 7:00	3/20/2021 8:00	1460.0
3/20/2021 8:00	3/20/2021 9:00	1477.6
3/20/2021 9:00	3/20/2021 10:00	1486.9
3/20/2021 10:00	3/20/2021 11:00	1432.8
3/20/2021 11:00	3/20/2021 12:00	1362.1
3/20/2021 12:00	3/20/2021 13:00	1254.7
3/20/2021 13:00	3/20/2021 14:00	1140.7
3/20/2021 14:00	3/20/2021 15:00	1053.5
3/20/2021 15:00	3/20/2021 16:00	1035.9
3/20/2021 16:00	3/20/2021 17:00	1021.2
3/20/2021 17:00	3/20/2021 18:00	1077.5
3/20/2021 18:00	3/20/2021 19:00	1158.1
3/20/2021 19:00	3/20/2021 20:00	1232.6
3/20/2021 20:00	3/20/2021 21:00	1252.3
3/20/2021 21:00	3/20/2021 22:00	1186.6
3/20/2021 22:00	3/20/2021 23:00	1136.3
3/20/2021 23:00	3/21/2021 0:00	1070.7
3/21/2021 0:00	3/21/2021 1:00	1000.8
3/21/2021 1:00	3/21/2021 2:00	979.6
3/21/2021 2:00	3/21/2021 3:00	1037.2
3/21/2021 3:00	3/21/2021 4:00	1124.3
3/21/2021 4:00	3/21/2021 5:00	1158.1
3/21/2021 5:00	3/21/2021 6:00	1231.5
3/21/2021 6:00	3/21/2021 7:00	1279.4
3/21/2021 7:00	3/21/2021 8:00	1384.7
3/21/2021 8:00	3/21/2021 9:00	1411.7
3/21/2021 9:00	3/21/2021 10:00	1366.3
3/21/2021 10:00	3/21/2021 11:00	1327.6
3/21/2021 11:00	3/21/2021 12:00	1276.0
3/21/2021 12:00	3/21/2021 13:00	1182.0
3/21/2021 13:00	3/21/2021 14:00	1076.9
3/21/2021 14:00	3/21/2021 15:00	1017.4
3/21/2021 15:00	3/21/2021 16:00	995.0
3/21/2021 16:00	3/21/2021 17:00	1009.0
3/21/2021 17:00	3/21/2021 18:00	995.1
3/21/2021 18:00	3/21/2021 19:00	996.4
3/21/2021 19:00	3/21/2021 20:00	994.6
3/21/2021 20:00	3/21/2021 21:00	992.0

Start Time	End Time	ANL_MW
3/21/2021 21:00	3/21/2021 22:00	969.4
3/21/2021 22:00	3/21/2021 23:00	971.8
3/21/2021 23:00	3/22/2021 0:00	959.0
3/22/2021 0:00	3/22/2021 1:00	924.1
3/22/2021 1:00	3/22/2021 2:00	917.4
3/22/2021 2:00	3/22/2021 3:00	923.7
3/22/2021 3:00	3/22/2021 4:00	927.4
3/22/2021 4:00	3/22/2021 5:00	928.2
3/22/2021 5:00	3/22/2021 6:00	954.0
3/22/2021 6:00	3/22/2021 7:00	1038.5
3/22/2021 7:00	3/22/2021 8:00	1115.1
3/22/2021 8:00	3/22/2021 9:00	1140.0
3/22/2021 9:00	3/22/2021 10:00	1186.8
3/22/2021 10:00	3/22/2021 11:00	1209.4
3/22/2021 11:00	3/22/2021 12:00	1174.5
3/22/2021 12:00	3/22/2021 13:00	1136.8
3/22/2021 13:00	3/22/2021 14:00	1070.7
3/22/2021 14:00	3/22/2021 15:00	995.0
3/22/2021 15:00	3/22/2021 16:00	987.4
3/22/2021 16:00	3/22/2021 17:00	1017.4
3/22/2021 17:00	3/22/2021 18:00	1046.4
3/22/2021 18:00	3/22/2021 19:00	1016.2
3/22/2021 19:00	3/22/2021 20:00	1003.5
3/22/2021 20:00	3/22/2021 21:00	981.9
3/22/2021 21:00	3/22/2021 22:00	938.6
3/22/2021 22:00	3/22/2021 23:00	922.2
3/22/2021 23:00	3/23/2021 0:00	894.0
3/23/2021 0:00	3/23/2021 1:00	916.9
3/23/2021 1:00	3/23/2021 2:00	900.1
3/23/2021 2:00	3/23/2021 3:00	858.8
3/23/2021 3:00	3/23/2021 4:00	879.0
3/23/2021 4:00	3/23/2021 5:00	872.0
3/23/2021 5:00	3/23/2021 6:00	931.2
3/23/2021 6:00	3/23/2021 7:00	1095.3
3/23/2021 7:00	3/23/2021 8:00	1224.8
3/23/2021 8:00	3/23/2021 9:00	1281.0
3/23/2021 9:00	3/23/2021 10:00	1304.8
3/23/2021 10:00	3/23/2021 11:00	1276.0
3/23/2021 11:00	3/23/2021 12:00	1201.4
3/23/2021 12:00	3/23/2021 13:00	1131.1
3/23/2021 13:00	3/23/2021 14:00	1073.4
3/23/2021 14:00	3/23/2021 15:00	991.4
3/23/2021 15:00	3/23/2021 16:00	994.0
3/23/2021 16:00	3/23/2021 17:00	1032.8
3/23/2021 17:00	3/23/2021 18:00	1068.8
3/23/2021 18:00	3/23/2021 19:00	1092.9
3/23/2021 19:00	3/23/2021 20:00	1098.1
3/23/2021 20:00	3/23/2021 21:00	1067.9
3/23/2021 21:00	3/23/2021 22:00	1014.6
3/23/2021 22:00	3/23/2021 23:00	958.6
3/23/2021 23:00	3/24/2021 0:00	941.6
3/24/2021 0:00	3/24/2021 1:00	983.8
3/24/2021 1:00	3/24/2021 2:00	948.5
3/24/2021 2:00	3/24/2021 3:00	960.4
3/24/2021 3:00	3/24/2021 4:00	996.6
3/24/2021 4:00	3/24/2021 5:00	1020.5
3/24/2021 5:00	3/24/2021 6:00	1091.1
3/24/2021 6:00	3/24/2021 7:00	1198.6
3/24/2021 7:00	3/24/2021 8:00	1333.3
3/24/2021 8:00	3/24/2021 9:00	1347.2
3/24/2021 9:00	3/24/2021 10:00	1316.7
3/24/2021 10:00	3/24/2021 11:00	1282.5
3/24/2021 11:00	3/24/2021 12:00	1229.0
3/24/2021 12:00	3/24/2021 13:00	1185.6
3/24/2021 13:00	3/24/2021 14:00	1141.5
3/24/2021 14:00	3/24/2021 15:00	1098.7
3/24/2021 15:00	3/24/2021 16:00	1094.2
3/24/2021 16:00	3/24/2021 17:00	1128.6
3/24/2021 17:00	3/24/2021 18:00	1163.3
3/24/2021 18:00	3/24/2021 19:00	1151.9

Start Time	End Time	ANL_MW
3/24/2021 19:00	3/24/2021 20:00	1149.0
3/24/2021 20:00	3/24/2021 21:00	1135.6
3/24/2021 21:00	3/24/2021 22:00	1094.3
3/24/2021 22:00	3/24/2021 23:00	992.7
3/24/2021 23:00	3/25/2021 0:00	932.8
3/25/2021 0:00	3/25/2021 1:00	896.0
3/25/2021 1:00	3/25/2021 2:00	928.1
3/25/2021 2:00	3/25/2021 3:00	906.6
3/25/2021 3:00	3/25/2021 4:00	919.4
3/25/2021 4:00	3/25/2021 5:00	944.8
3/25/2021 5:00	3/25/2021 6:00	1024.5
3/25/2021 6:00	3/25/2021 7:00	1098.7
3/25/2021 7:00	3/25/2021 8:00	1200.7
3/25/2021 8:00	3/25/2021 9:00	1247.9
3/25/2021 9:00	3/25/2021 10:00	1252.0
3/25/2021 10:00	3/25/2021 11:00	1258.4
3/25/2021 11:00	3/25/2021 12:00	1230.4
3/25/2021 12:00	3/25/2021 13:00	1167.6
3/25/2021 13:00	3/25/2021 14:00	1072.6
3/25/2021 14:00	3/25/2021 15:00	1042.4
3/25/2021 15:00	3/25/2021 16:00	1040.2
3/25/2021 16:00	3/25/2021 17:00	1017.0
3/25/2021 17:00	3/25/2021 18:00	1062.2
3/25/2021 18:00	3/25/2021 19:00	1027.9
3/25/2021 19:00	3/25/2021 20:00	1028.1
3/25/2021 20:00	3/25/2021 21:00	1025.5
3/25/2021 21:00	3/25/2021 22:00	960.8
3/25/2021 22:00	3/25/2021 23:00	939.4
3/25/2021 23:00	3/26/2021 0:00	911.4
3/26/2021 0:00	3/26/2021 1:00	863.1
3/26/2021 1:00	3/26/2021 2:00	811.8
3/26/2021 2:00	3/26/2021 3:00	813.8
3/26/2021 3:00	3/26/2021 4:00	826.2
3/26/2021 4:00	3/26/2021 5:00	838.0
3/26/2021 5:00	3/26/2021 6:00	870.3
3/26/2021 6:00	3/26/2021 7:00	959.0
3/26/2021 7:00	3/26/2021 8:00	1078.5
3/26/2021 8:00	3/26/2021 9:00	1127.3
3/26/2021 9:00	3/26/2021 10:00	1161.7
3/26/2021 10:00	3/26/2021 11:00	1185.7
3/26/2021 11:00	3/26/2021 12:00	1162.4
3/26/2021 12:00	3/26/2021 13:00	1160.4
3/26/2021 13:00	3/26/2021 14:00	1117.9
3/26/2021 14:00	3/26/2021 15:00	1078.9
3/26/2021 15:00	3/26/2021 16:00	1067.2
3/26/2021 16:00	3/26/2021 17:00	1047.5
3/26/2021 17:00	3/26/2021 18:00	998.0
3/26/2021 18:00	3/26/2021 19:00	931.2
3/26/2021 19:00	3/26/2021 20:00	920.8
3/26/2021 20:00	3/26/2021 21:00	880.8
3/26/2021 21:00	3/26/2021 22:00	834.4
3/26/2021 22:00	3/26/2021 23:00	855.8
3/26/2021 23:00	3/27/2021 0:00	881.9
3/27/2021 0:00	3/27/2021 1:00	880.9
3/27/2021 1:00	3/27/2021 2:00	863.6
3/27/2021 2:00	3/27/2021 3:00	868.3
3/27/2021 3:00	3/27/2021 4:00	815.2
3/27/2021 4:00	3/27/2021 5:00	789.6
3/27/2021 5:00	3/27/2021 6:00	769.3
3/27/2021 6:00	3/27/2021 7:00	826.9
3/27/2021 7:00	3/27/2021 8:00	934.4
3/27/2021 8:00	3/27/2021 9:00	1073.1
3/27/2021 9:00	3/27/2021 10:00	1142.5
3/27/2021 10:00	3/27/2021 11:00	1233.6
3/27/2021 11:00	3/27/2021 12:00	1228.3
3/27/2021 12:00	3/27/2021 13:00	1220.8
3/27/2021 13:00	3/27/2021 14:00	1194.9
3/27/2021 14:00	3/27/2021 15:00	1170.0
3/27/2021 15:00	3/27/2021 16:00	1146.5
3/27/2021 16:00	3/27/2021 17:00	1177.4

Start Time	End Time	ANL_MW
3/27/2021 17:00	3/27/2021 18:00	1243.6
3/27/2021 18:00	3/27/2021 19:00	1271.6
3/27/2021 19:00	3/27/2021 20:00	1338.6
3/27/2021 20:00	3/27/2021 21:00	1391.9
3/27/2021 21:00	3/27/2021 22:00	1371.3
3/27/2021 22:00	3/27/2021 23:00	1299.4
3/27/2021 23:00	3/28/2021 0:00	1177.9
3/28/2021 0:00	3/28/2021 1:00	1130.9
3/28/2021 1:00	3/28/2021 2:00	1119.3
3/28/2021 2:00	3/28/2021 3:00	1127.0
3/28/2021 3:00	3/28/2021 4:00	1134.1
3/28/2021 4:00	3/28/2021 5:00	1140.9
3/28/2021 5:00	3/28/2021 6:00	1164.4
3/28/2021 6:00	3/28/2021 7:00	1210.3
3/28/2021 7:00	3/28/2021 8:00	1266.6
3/28/2021 8:00	3/28/2021 9:00	1348.0
3/28/2021 9:00	3/28/2021 10:00	1410.7
3/28/2021 10:00	3/28/2021 11:00	1442.1
3/28/2021 11:00	3/28/2021 12:00	1442.4
3/28/2021 12:00	3/28/2021 13:00	1438.7
3/28/2021 13:00	3/28/2021 14:00	1348.8
3/28/2021 14:00	3/28/2021 15:00	1269.1
3/28/2021 15:00	3/28/2021 16:00	1227.0
3/28/2021 16:00	3/28/2021 17:00	1263.4
3/28/2021 17:00	3/28/2021 18:00	1279.5
3/28/2021 18:00	3/28/2021 19:00	1233.9
3/28/2021 19:00	3/28/2021 20:00	1165.1
3/28/2021 20:00	3/28/2021 21:00	1124.6
3/28/2021 21:00	3/28/2021 22:00	1057.9
3/28/2021 22:00	3/28/2021 23:00	1055.1
3/28/2021 23:00	3/29/2021 0:00	1003.7
3/29/2021 0:00	3/29/2021 1:00	951.1
3/29/2021 1:00	3/29/2021 2:00	894.9
3/29/2021 2:00	3/29/2021 3:00	835.7
3/29/2021 3:00	3/29/2021 4:00	796.4
3/29/2021 4:00	3/29/2021 5:00	768.7
3/29/2021 5:00	3/29/2021 6:00	784.3
3/29/2021 6:00	3/29/2021 7:00	957.5
3/29/2021 7:00	3/29/2021 8:00	1008.6
3/29/2021 8:00	3/29/2021 9:00	1028.8
3/29/2021 9:00	3/29/2021 10:00	998.2
3/29/2021 10:00	3/29/2021 11:00	971.0
3/29/2021 11:00	3/29/2021 12:00	951.3
3/29/2021 12:00	3/29/2021 13:00	901.5
3/29/2021 13:00	3/29/2021 14:00	853.7
3/29/2021 14:00	3/29/2021 15:00	820.2
3/29/2021 15:00	3/29/2021 16:00	838.7
3/29/2021 16:00	3/29/2021 17:00	905.6
3/29/2021 17:00	3/29/2021 18:00	933.4
3/29/2021 18:00	3/29/2021 19:00	903.6
3/29/2021 19:00	3/29/2021 20:00	916.6
3/29/2021 20:00	3/29/2021 21:00	927.2
3/29/2021 21:00	3/29/2021 22:00	972.0
3/29/2021 22:00	3/29/2021 23:00	908.3
3/29/2021 23:00	3/30/2021 0:00	842.5
3/30/2021 0:00	3/30/2021 1:00	823.4
3/30/2021 1:00	3/30/2021 2:00	814.3
3/30/2021 2:00	3/30/2021 3:00	813.1
3/30/2021 3:00	3/30/2021 4:00	829.6
3/30/2021 4:00	3/30/2021 5:00	846.4
3/30/2021 5:00	3/30/2021 6:00	932.8
3/30/2021 6:00	3/30/2021 7:00	1037.7
3/30/2021 7:00	3/30/2021 8:00	1184.0
3/30/2021 8:00	3/30/2021 9:00	1190.0
3/30/2021 9:00	3/30/2021 10:00	1180.5
3/30/2021 10:00	3/30/2021 11:00	1159.2
3/30/2021 11:00	3/30/2021 12:00	1186.3
3/30/2021 12:00	3/30/2021 13:00	1204.0
3/30/2021 13:00	3/30/2021 14:00	1213.9
3/30/2021 14:00	3/30/2021 15:00	1174.3

Start Time	End Time	ANL_MW
3/30/2021 15:00	3/30/2021 16:00	1161.3
3/30/2021 16:00	3/30/2021 17:00	1199.3
3/30/2021 17:00	3/30/2021 18:00	1218.0
3/30/2021 18:00	3/30/2021 19:00	1219.4
3/30/2021 19:00	3/30/2021 20:00	1264.2
3/30/2021 20:00	3/30/2021 21:00	1294.0
3/30/2021 21:00	3/30/2021 22:00	1225.0
3/30/2021 22:00	3/30/2021 23:00	1057.1
3/30/2021 23:00	3/31/2021 0:00	973.7
3/31/2021 0:00	3/31/2021 1:00	928.0
3/31/2021 1:00	3/31/2021 2:00	940.9
3/31/2021 2:00	3/31/2021 3:00	907.7
3/31/2021 3:00	3/31/2021 4:00	893.3
3/31/2021 4:00	3/31/2021 5:00	908.0
3/31/2021 5:00	3/31/2021 6:00	882.2
3/31/2021 6:00	3/31/2021 7:00	998.3
3/31/2021 7:00	3/31/2021 8:00	1080.0
3/31/2021 8:00	3/31/2021 9:00	1128.3
3/31/2021 9:00	3/31/2021 10:00	1117.8
3/31/2021 10:00	3/31/2021 11:00	1098.5
3/31/2021 11:00	3/31/2021 12:00	986.7
3/31/2021 12:00	3/31/2021 13:00	933.0
3/31/2021 13:00	3/31/2021 14:00	866.0
3/31/2021 14:00	3/31/2021 15:00	816.9
3/31/2021 15:00	3/31/2021 16:00	864.9
3/31/2021 16:00	3/31/2021 17:00	891.8
3/31/2021 17:00	3/31/2021 18:00	902.2
3/31/2021 18:00	3/31/2021 19:00	910.8
3/31/2021 19:00	3/31/2021 20:00	928.2
3/31/2021 20:00	3/31/2021 21:00	928.9
3/31/2021 21:00	3/31/2021 22:00	856.8
3/31/2021 22:00	3/31/2021 23:00	774.8
3/31/2021 23:00	4/1/2021 0:00	728.3
4/1/2021 0:00	4/1/2021 1:00	698.4
4/1/2021 1:00	4/1/2021 2:00	680.4
4/1/2021 2:00	4/1/2021 3:00	642.2
4/1/2021 3:00	4/1/2021 4:00	656.9
4/1/2021 4:00	4/1/2021 5:00	682.0
4/1/2021 5:00	4/1/2021 6:00	729.1
4/1/2021 6:00	4/1/2021 7:00	773.1
4/1/2021 7:00	4/1/2021 8:00	844.0
4/1/2021 8:00	4/1/2021 9:00	853.3
4/1/2021 9:00	4/1/2021 10:00	898.6
4/1/2021 10:00	4/1/2021 11:00	871.4
4/1/2021 11:00	4/1/2021 12:00	856.8
4/1/2021 12:00	4/1/2021 13:00	872.3
4/1/2021 13:00	4/1/2021 14:00	878.3
4/1/2021 14:00	4/1/2021 15:00	857.7
4/1/2021 15:00	4/1/2021 16:00	836.7
4/1/2021 16:00	4/1/2021 17:00	840.8
4/1/2021 17:00	4/1/2021 18:00	844.5
4/1/2021 18:00	4/1/2021 19:00	826.1
4/1/2021 19:00	4/1/2021 20:00	829.1
4/1/2021 20:00	4/1/2021 21:00	820.9
4/1/2021 21:00	4/1/2021 22:00	808.9
4/1/2021 22:00	4/1/2021 23:00	777.2
4/1/2021 23:00	4/2/2021 0:00	716.6
4/2/2021 0:00	4/2/2021 1:00	693.0
4/2/2021 1:00	4/2/2021 2:00	698.9
4/2/2021 2:00	4/2/2021 3:00	734.4
4/2/2021 3:00	4/2/2021 4:00	750.1
4/2/2021 4:00	4/2/2021 5:00	805.9
4/2/2021 5:00	4/2/2021 6:00	831.6
4/2/2021 6:00	4/2/2021 7:00	893.4
4/2/2021 7:00	4/2/2021 8:00	956.0
4/2/2021 8:00	4/2/2021 9:00	966.6
4/2/2021 9:00	4/2/2021 10:00	1092.7
4/2/2021 10:00	4/2/2021 11:00	1173.8
4/2/2021 11:00	4/2/2021 12:00	1219.2
4/2/2021 12:00	4/2/2021 13:00	1246.5

Start Time	End Time	ANL_MW
4/2/2021 13:00	4/2/2021 14:00	1240.0
4/2/2021 14:00	4/2/2021 15:00	1244.4
4/2/2021 15:00	4/2/2021 16:00	1258.6
4/2/2021 16:00	4/2/2021 17:00	1304.2
4/2/2021 17:00	4/2/2021 18:00	1323.7
4/2/2021 18:00	4/2/2021 19:00	1288.2
4/2/2021 19:00	4/2/2021 20:00	1281.4
4/2/2021 20:00	4/2/2021 21:00	1280.0
4/2/2021 21:00	4/2/2021 22:00	1229.1
4/2/2021 22:00	4/2/2021 23:00	1181.9
4/2/2021 23:00	4/3/2021 0:00	1142.7
4/3/2021 0:00	4/3/2021 1:00	1157.7
4/3/2021 1:00	4/3/2021 2:00	1138.4
4/3/2021 2:00	4/3/2021 3:00	1131.6
4/3/2021 3:00	4/3/2021 4:00	1116.6
4/3/2021 4:00	4/3/2021 5:00	1121.4
4/3/2021 5:00	4/3/2021 6:00	1155.3
4/3/2021 6:00	4/3/2021 7:00	1218.6
4/3/2021 7:00	4/3/2021 8:00	1228.4
4/3/2021 8:00	4/3/2021 9:00	1346.5
4/3/2021 9:00	4/3/2021 10:00	1376.1
4/3/2021 10:00	4/3/2021 11:00	1359.5
4/3/2021 11:00	4/3/2021 12:00	1314.9
4/3/2021 12:00	4/3/2021 13:00	1293.7
4/3/2021 13:00	4/3/2021 14:00	1312.7
4/3/2021 14:00	4/3/2021 15:00	1211.8
4/3/2021 15:00	4/3/2021 16:00	1210.8
4/3/2021 16:00	4/3/2021 17:00	1228.5
4/3/2021 17:00	4/3/2021 18:00	1245.9
4/3/2021 18:00	4/3/2021 19:00	1207.9
4/3/2021 19:00	4/3/2021 20:00	1195.7
4/3/2021 20:00	4/3/2021 21:00	1232.7
4/3/2021 21:00	4/3/2021 22:00	1214.0
4/3/2021 22:00	4/3/2021 23:00	1120.6
4/3/2021 23:00	4/4/2021 0:00	1118.0
4/4/2021 0:00	4/4/2021 1:00	1047.8
4/4/2021 1:00	4/4/2021 2:00	980.4
4/4/2021 2:00	4/4/2021 3:00	938.8
4/4/2021 3:00	4/4/2021 4:00	973.6
4/4/2021 4:00	4/4/2021 5:00	1014.6
4/4/2021 5:00	4/4/2021 6:00	1027.7
4/4/2021 6:00	4/4/2021 7:00	1104.5
4/4/2021 7:00	4/4/2021 8:00	1211.1
4/4/2021 8:00	4/4/2021 9:00	1297.2
4/4/2021 9:00	4/4/2021 10:00	1322.5
4/4/2021 10:00	4/4/2021 11:00	1351.8
4/4/2021 11:00	4/4/2021 12:00	1355.0
4/4/2021 12:00	4/4/2021 13:00	1360.1
4/4/2021 13:00	4/4/2021 14:00	1313.6
4/4/2021 14:00	4/4/2021 15:00	1266.9
4/4/2021 15:00	4/4/2021 16:00	1238.8
4/4/2021 16:00	4/4/2021 17:00	1244.1
4/4/2021 17:00	4/4/2021 18:00	1217.8
4/4/2021 18:00	4/4/2021 19:00	1185.9
4/4/2021 19:00	4/4/2021 20:00	1221.3
4/4/2021 20:00	4/4/2021 21:00	1224.5
4/4/2021 21:00	4/4/2021 22:00	1178.9
4/4/2021 22:00	4/4/2021 23:00	1117.0
4/4/2021 23:00	4/5/2021 0:00	1083.7
4/5/2021 0:00	4/5/2021 1:00	1034.4
4/5/2021 1:00	4/5/2021 2:00	1005.5
4/5/2021 2:00	4/5/2021 3:00	979.2
4/5/2021 3:00	4/5/2021 4:00	950.8
4/5/2021 4:00	4/5/2021 5:00	906.6
4/5/2021 5:00	4/5/2021 6:00	934.4
4/5/2021 6:00	4/5/2021 7:00	988.5
4/5/2021 7:00	4/5/2021 8:00	1062.2
4/5/2021 8:00	4/5/2021 9:00	1131.8
4/5/2021 9:00	4/5/2021 10:00	1196.6
4/5/2021 10:00	4/5/2021 11:00	1222.0

Start Time	End Time	ANL_MW
4/5/2021 11:00	4/5/2021 12:00	1225.3
4/5/2021 12:00	4/5/2021 13:00	1227.6
4/5/2021 13:00	4/5/2021 14:00	1198.9
4/5/2021 14:00	4/5/2021 15:00	1186.8
4/5/2021 15:00	4/5/2021 16:00	1137.9
4/5/2021 16:00	4/5/2021 17:00	1141.8
4/5/2021 17:00	4/5/2021 18:00	1180.1
4/5/2021 18:00	4/5/2021 19:00	1201.4
4/5/2021 19:00	4/5/2021 20:00	1226.7
4/5/2021 20:00	4/5/2021 21:00	1235.9
4/5/2021 21:00	4/5/2021 22:00	1181.3
4/5/2021 22:00	4/5/2021 23:00	1084.8
4/5/2021 23:00	4/6/2021 0:00	1038.4
4/6/2021 0:00	4/6/2021 1:00	1029.1
4/6/2021 1:00	4/6/2021 2:00	1024.1
4/6/2021 2:00	4/6/2021 3:00	1030.3
4/6/2021 3:00	4/6/2021 4:00	1035.7
4/6/2021 4:00	4/6/2021 5:00	1054.9
4/6/2021 5:00	4/6/2021 6:00	1106.6
4/6/2021 6:00	4/6/2021 7:00	1216.9
4/6/2021 7:00	4/6/2021 8:00	1267.6
4/6/2021 8:00	4/6/2021 9:00	1299.9
4/6/2021 9:00	4/6/2021 10:00	1282.7
4/6/2021 10:00	4/6/2021 11:00	1259.6
4/6/2021 11:00	4/6/2021 12:00	1234.3
4/6/2021 12:00	4/6/2021 13:00	1212.5
4/6/2021 13:00	4/6/2021 14:00	1182.0
4/6/2021 14:00	4/6/2021 15:00	1145.6
4/6/2021 15:00	4/6/2021 16:00	1165.9
4/6/2021 16:00	4/6/2021 17:00	1177.3
4/6/2021 17:00	4/6/2021 18:00	1173.8
4/6/2021 18:00	4/6/2021 19:00	1134.2
4/6/2021 19:00	4/6/2021 20:00	1139.6
4/6/2021 20:00	4/6/2021 21:00	1142.3
4/6/2021 21:00	4/6/2021 22:00	1106.9
4/6/2021 22:00	4/6/2021 23:00	1044.5
4/6/2021 23:00	4/7/2021 0:00	1031.5
4/7/2021 0:00	4/7/2021 1:00	1022.6
4/7/2021 1:00	4/7/2021 2:00	982.9
4/7/2021 2:00	4/7/2021 3:00	963.2
4/7/2021 3:00	4/7/2021 4:00	951.9
4/7/2021 4:00	4/7/2021 5:00	935.4
4/7/2021 5:00	4/7/2021 6:00	974.8
4/7/2021 6:00	4/7/2021 7:00	1096.3
4/7/2021 7:00	4/7/2021 8:00	1218.2
4/7/2021 8:00	4/7/2021 9:00	1238.5
4/7/2021 9:00	4/7/2021 10:00	1225.1
4/7/2021 10:00	4/7/2021 11:00	1174.6
4/7/2021 11:00	4/7/2021 12:00	1113.1
4/7/2021 12:00	4/7/2021 13:00	1089.0
4/7/2021 13:00	4/7/2021 14:00	1064.9
4/7/2021 14:00	4/7/2021 15:00	998.6
4/7/2021 15:00	4/7/2021 16:00	964.0
4/7/2021 16:00	4/7/2021 17:00	985.7
4/7/2021 17:00	4/7/2021 18:00	998.9
4/7/2021 18:00	4/7/2021 19:00	1013.8
4/7/2021 19:00	4/7/2021 20:00	996.0
4/7/2021 20:00	4/7/2021 21:00	993.0
4/7/2021 21:00	4/7/2021 22:00	969.0
4/7/2021 22:00	4/7/2021 23:00	974.1
4/7/2021 23:00	4/8/2021 0:00	979.3
4/8/2021 0:00	4/8/2021 1:00	990.1
4/8/2021 1:00	4/8/2021 2:00	967.8
4/8/2021 2:00	4/8/2021 3:00	946.6
4/8/2021 3:00	4/8/2021 4:00	918.0
4/8/2021 4:00	4/8/2021 5:00	907.1
4/8/2021 5:00	4/8/2021 6:00	813.2
4/8/2021 6:00	4/8/2021 7:00	911.9
4/8/2021 7:00	4/8/2021 8:00	1003.1
4/8/2021 8:00	4/8/2021 9:00	1057.3

Start Time	End Time	ANL_MW
4/8/2021 9:00	4/8/2021 10:00	1066.3
4/8/2021 10:00	4/8/2021 11:00	1019.9
4/8/2021 11:00	4/8/2021 12:00	980.2
4/8/2021 12:00	4/8/2021 13:00	968.2
4/8/2021 13:00	4/8/2021 14:00	899.7
4/8/2021 14:00	4/8/2021 15:00	828.6
4/8/2021 15:00	4/8/2021 16:00	782.3
4/8/2021 16:00	4/8/2021 17:00	784.7
4/8/2021 17:00	4/8/2021 18:00	805.6
4/8/2021 18:00	4/8/2021 19:00	834.5
4/8/2021 19:00	4/8/2021 20:00	875.0
4/8/2021 20:00	4/8/2021 21:00	928.3
4/8/2021 21:00	4/8/2021 22:00	895.3
4/8/2021 22:00	4/8/2021 23:00	841.0
4/8/2021 23:00	4/9/2021 0:00	787.2
4/9/2021 0:00	4/9/2021 1:00	763.2
4/9/2021 1:00	4/9/2021 2:00	746.7
4/9/2021 2:00	4/9/2021 3:00	736.7
4/9/2021 3:00	4/9/2021 4:00	793.4
4/9/2021 4:00	4/9/2021 5:00	818.3
4/9/2021 5:00	4/9/2021 6:00	856.0
4/9/2021 6:00	4/9/2021 7:00	990.0
4/9/2021 7:00	4/9/2021 8:00	1109.3
4/9/2021 8:00	4/9/2021 9:00	1159.1
4/9/2021 9:00	4/9/2021 10:00	1138.4
4/9/2021 10:00	4/9/2021 11:00	1100.3
4/9/2021 11:00	4/9/2021 12:00	1047.3
4/9/2021 12:00	4/9/2021 13:00	1009.5
4/9/2021 13:00	4/9/2021 14:00	931.5
4/9/2021 14:00	4/9/2021 15:00	866.2
4/9/2021 15:00	4/9/2021 16:00	868.6
4/9/2021 16:00	4/9/2021 17:00	956.3
4/9/2021 17:00	4/9/2021 18:00	1012.3
4/9/2021 18:00	4/9/2021 19:00	1046.7
4/9/2021 19:00	4/9/2021 20:00	1066.3
4/9/2021 20:00	4/9/2021 21:00	1063.3
4/9/2021 21:00	4/9/2021 22:00	970.3
4/9/2021 22:00	4/9/2021 23:00	919.1
4/9/2021 23:00	4/10/2021 0:00	930.4
4/10/2021 0:00	4/10/2021 1:00	940.2
4/10/2021 1:00	4/10/2021 2:00	900.6
4/10/2021 2:00	4/10/2021 3:00	909.5
4/10/2021 3:00	4/10/2021 4:00	926.0
4/10/2021 4:00	4/10/2021 5:00	921.9
4/10/2021 5:00	4/10/2021 6:00	939.8
4/10/2021 6:00	4/10/2021 7:00	1003.2
4/10/2021 7:00	4/10/2021 8:00	1094.5
4/10/2021 8:00	4/10/2021 9:00	1185.0
4/10/2021 9:00	4/10/2021 10:00	1137.4
4/10/2021 10:00	4/10/2021 11:00	1108.1
4/10/2021 11:00	4/10/2021 12:00	1070.1
4/10/2021 12:00	4/10/2021 13:00	1016.8
4/10/2021 13:00	4/10/2021 14:00	980.4
4/10/2021 14:00	4/10/2021 15:00	993.3
4/10/2021 15:00	4/10/2021 16:00	978.8
4/10/2021 16:00	4/10/2021 17:00	1002.2
4/10/2021 17:00	4/10/2021 18:00	1009.5
4/10/2021 18:00	4/10/2021 19:00	1030.9
4/10/2021 19:00	4/10/2021 20:00	1112.7
4/10/2021 20:00	4/10/2021 21:00	1141.0
4/10/2021 21:00	4/10/2021 22:00	1041.6
4/10/2021 22:00	4/10/2021 23:00	977.2
4/10/2021 23:00	4/11/2021 0:00	980.6
4/11/2021 0:00	4/11/2021 1:00	981.2
4/11/2021 1:00	4/11/2021 2:00	975.2
4/11/2021 2:00	4/11/2021 3:00	968.5
4/11/2021 3:00	4/11/2021 4:00	970.8
4/11/2021 4:00	4/11/2021 5:00	996.1
4/11/2021 5:00	4/11/2021 6:00	1007.7
4/11/2021 6:00	4/11/2021 7:00	1021.0

Start Time	End Time	ANL_MW
4/11/2021 7:00	4/11/2021 8:00	1066.8
4/11/2021 8:00	4/11/2021 9:00	1115.3
4/11/2021 9:00	4/11/2021 10:00	1112.4
4/11/2021 10:00	4/11/2021 11:00	1074.4
4/11/2021 11:00	4/11/2021 12:00	1035.0
4/11/2021 12:00	4/11/2021 13:00	1052.3
4/11/2021 13:00	4/11/2021 14:00	970.5
4/11/2021 14:00	4/11/2021 15:00	914.1
4/11/2021 15:00	4/11/2021 16:00	915.4
4/11/2021 16:00	4/11/2021 17:00	927.0
4/11/2021 17:00	4/11/2021 18:00	971.1
4/11/2021 18:00	4/11/2021 19:00	1019.0
4/11/2021 19:00	4/11/2021 20:00	1085.8
4/11/2021 20:00	4/11/2021 21:00	1132.4
4/11/2021 21:00	4/11/2021 22:00	1104.7
4/11/2021 22:00	4/11/2021 23:00	1009.1
4/11/2021 23:00	4/12/2021 0:00	911.4
4/12/2021 0:00	4/12/2021 1:00	847.6
4/12/2021 1:00	4/12/2021 2:00	829.4
4/12/2021 2:00	4/12/2021 3:00	842.2
4/12/2021 3:00	4/12/2021 4:00	838.9
4/12/2021 4:00	4/12/2021 5:00	873.4
4/12/2021 5:00	4/12/2021 6:00	850.7
4/12/2021 6:00	4/12/2021 7:00	975.6
4/12/2021 7:00	4/12/2021 8:00	1096.0
4/12/2021 8:00	4/12/2021 9:00	1153.2
4/12/2021 9:00	4/12/2021 10:00	1160.2
4/12/2021 10:00	4/12/2021 11:00	1148.6
4/12/2021 11:00	4/12/2021 12:00	1118.0
4/12/2021 12:00	4/12/2021 13:00	1095.8
4/12/2021 13:00	4/12/2021 14:00	1041.4
4/12/2021 14:00	4/12/2021 15:00	946.9
4/12/2021 15:00	4/12/2021 16:00	879.3
4/12/2021 16:00	4/12/2021 17:00	856.3
4/12/2021 17:00	4/12/2021 18:00	862.4
4/12/2021 18:00	4/12/2021 19:00	868.6
4/12/2021 19:00	4/12/2021 20:00	883.1
4/12/2021 20:00	4/12/2021 21:00	889.2
4/12/2021 21:00	4/12/2021 22:00	904.3
4/12/2021 22:00	4/12/2021 23:00	820.5
4/12/2021 23:00	4/13/2021 0:00	762.8
4/13/2021 0:00	4/13/2021 1:00	729.7
4/13/2021 1:00	4/13/2021 2:00	701.1
4/13/2021 2:00	4/13/2021 3:00	689.4
4/13/2021 3:00	4/13/2021 4:00	689.1
4/13/2021 4:00	4/13/2021 5:00	706.1
4/13/2021 5:00	4/13/2021 6:00	774.4
4/13/2021 6:00	4/13/2021 7:00	893.6
4/13/2021 7:00	4/13/2021 8:00	954.1
4/13/2021 8:00	4/13/2021 9:00	975.3
4/13/2021 9:00	4/13/2021 10:00	959.4
4/13/2021 10:00	4/13/2021 11:00	961.7
4/13/2021 11:00	4/13/2021 12:00	929.6
4/13/2021 12:00	4/13/2021 13:00	924.8
4/13/2021 13:00	4/13/2021 14:00	894.9
4/13/2021 14:00	4/13/2021 15:00	870.5
4/13/2021 15:00	4/13/2021 16:00	862.8
4/13/2021 16:00	4/13/2021 17:00	875.5
4/13/2021 17:00	4/13/2021 18:00	882.4
4/13/2021 18:00	4/13/2021 19:00	883.3
4/13/2021 19:00	4/13/2021 20:00	915.5
4/13/2021 20:00	4/13/2021 21:00	909.7
4/13/2021 21:00	4/13/2021 22:00	870.4
4/13/2021 22:00	4/13/2021 23:00	862.4
4/13/2021 23:00	4/14/2021 0:00	843.5
4/14/2021 0:00	4/14/2021 1:00	844.5
4/14/2021 1:00	4/14/2021 2:00	823.4
4/14/2021 2:00	4/14/2021 3:00	789.9
4/14/2021 3:00	4/14/2021 4:00	790.8
4/14/2021 4:00	4/14/2021 5:00	797.7

Start Time	End Time	ANL_MW
4/14/2021 5:00	4/14/2021 6:00	854.3
4/14/2021 6:00	4/14/2021 7:00	979.8
4/14/2021 7:00	4/14/2021 8:00	1066.2
4/14/2021 8:00	4/14/2021 9:00	1105.9
4/14/2021 9:00	4/14/2021 10:00	1092.9
4/14/2021 10:00	4/14/2021 11:00	1042.4
4/14/2021 11:00	4/14/2021 12:00	1014.3
4/14/2021 12:00	4/14/2021 13:00	981.8
4/14/2021 13:00	4/14/2021 14:00	952.2
4/14/2021 14:00	4/14/2021 15:00	894.2
4/14/2021 15:00	4/14/2021 16:00	950.3
4/14/2021 16:00	4/14/2021 17:00	962.6
4/14/2021 17:00	4/14/2021 18:00	965.7
4/14/2021 18:00	4/14/2021 19:00	983.3
4/14/2021 19:00	4/14/2021 20:00	1023.2
4/14/2021 20:00	4/14/2021 21:00	1107.5
4/14/2021 21:00	4/14/2021 22:00	1093.8
4/14/2021 22:00	4/14/2021 23:00	1045.1
4/14/2021 23:00	4/15/2021 0:00	1027.1
4/15/2021 0:00	4/15/2021 1:00	1023.3
4/15/2021 1:00	4/15/2021 2:00	1005.2
4/15/2021 2:00	4/15/2021 3:00	1004.7
4/15/2021 3:00	4/15/2021 4:00	1032.5
4/15/2021 4:00	4/15/2021 5:00	1059.6
4/15/2021 5:00	4/15/2021 6:00	1054.7
4/15/2021 6:00	4/15/2021 7:00	1181.3
4/15/2021 7:00	4/15/2021 8:00	1281.2
4/15/2021 8:00	4/15/2021 9:00	1307.7
4/15/2021 9:00	4/15/2021 10:00	1270.6
4/15/2021 10:00	4/15/2021 11:00	1210.9
4/15/2021 11:00	4/15/2021 12:00	1241.1
4/15/2021 12:00	4/15/2021 13:00	1205.1
4/15/2021 13:00	4/15/2021 14:00	1156.3
4/15/2021 14:00	4/15/2021 15:00	1122.0
4/15/2021 15:00	4/15/2021 16:00	1111.7
4/15/2021 16:00	4/15/2021 17:00	1146.9
4/15/2021 17:00	4/15/2021 18:00	1181.7
4/15/2021 18:00	4/15/2021 19:00	1185.0
4/15/2021 19:00	4/15/2021 20:00	1210.6
4/15/2021 20:00	4/15/2021 21:00	1242.0
4/15/2021 21:00	4/15/2021 22:00	1205.9
4/15/2021 22:00	4/15/2021 23:00	1127.6
4/15/2021 23:00	4/16/2021 0:00	1099.4
4/16/2021 0:00	4/16/2021 1:00	1094.2
4/16/2021 1:00	4/16/2021 2:00	1062.6
4/16/2021 2:00	4/16/2021 3:00	1024.8
4/16/2021 3:00	4/16/2021 4:00	1029.1
4/16/2021 4:00	4/16/2021 5:00	1026.5
4/16/2021 5:00	4/16/2021 6:00	1048.2
4/16/2021 6:00	4/16/2021 7:00	1159.2
4/16/2021 7:00	4/16/2021 8:00	1241.5
4/16/2021 8:00	4/16/2021 9:00	1253.6
4/16/2021 9:00	4/16/2021 10:00	1204.2
4/16/2021 10:00	4/16/2021 11:00	1181.9
4/16/2021 11:00	4/16/2021 12:00	1126.8
4/16/2021 12:00	4/16/2021 13:00	1070.5
4/16/2021 13:00	4/16/2021 14:00	1045.4
4/16/2021 14:00	4/16/2021 15:00	1007.7
4/16/2021 15:00	4/16/2021 16:00	976.4
4/16/2021 16:00	4/16/2021 17:00	974.8
4/16/2021 17:00	4/16/2021 18:00	997.6
4/16/2021 18:00	4/16/2021 19:00	1017.0
4/16/2021 19:00	4/16/2021 20:00	1045.0
4/16/2021 20:00	4/16/2021 21:00	1042.7
4/16/2021 21:00	4/16/2021 22:00	1037.5
4/16/2021 22:00	4/16/2021 23:00	976.8
4/16/2021 23:00	4/17/2021 0:00	930.7
4/17/2021 0:00	4/17/2021 1:00	892.5
4/17/2021 1:00	4/17/2021 2:00	853.4
4/17/2021 2:00	4/17/2021 3:00	814.9

Start Time	End Time	ANL_MW
4/17/2021 3:00	4/17/2021 4:00	804.1
4/17/2021 4:00	4/17/2021 5:00	837.3
4/17/2021 5:00	4/17/2021 6:00	849.2
4/17/2021 6:00	4/17/2021 7:00	894.2
4/17/2021 7:00	4/17/2021 8:00	985.5
4/17/2021 8:00	4/17/2021 9:00	1024.4
4/17/2021 9:00	4/17/2021 10:00	1064.7
4/17/2021 10:00	4/17/2021 11:00	1098.4
4/17/2021 11:00	4/17/2021 12:00	1105.1
4/17/2021 12:00	4/17/2021 13:00	1055.5
4/17/2021 13:00	4/17/2021 14:00	1024.5
4/17/2021 14:00	4/17/2021 15:00	983.2
4/17/2021 15:00	4/17/2021 16:00	978.7
4/17/2021 16:00	4/17/2021 17:00	1030.8
4/17/2021 17:00	4/17/2021 18:00	1101.9
4/17/2021 18:00	4/17/2021 19:00	1085.2
4/17/2021 19:00	4/17/2021 20:00	1061.8
4/17/2021 20:00	4/17/2021 21:00	1018.0
4/17/2021 21:00	4/17/2021 22:00	964.1
4/17/2021 22:00	4/17/2021 23:00	918.5
4/17/2021 23:00	4/18/2021 0:00	912.3
4/18/2021 0:00	4/18/2021 1:00	846.2
4/18/2021 1:00	4/18/2021 2:00	932.1
4/18/2021 2:00	4/18/2021 3:00	953.5
4/18/2021 3:00	4/18/2021 4:00	963.6
4/18/2021 4:00	4/18/2021 5:00	981.8
4/18/2021 5:00	4/18/2021 6:00	1009.8
4/18/2021 6:00	4/18/2021 7:00	1054.3
4/18/2021 7:00	4/18/2021 8:00	1133.4
4/18/2021 8:00	4/18/2021 9:00	1229.4
4/18/2021 9:00	4/18/2021 10:00	1268.3
4/18/2021 10:00	4/18/2021 11:00	1244.1
4/18/2021 11:00	4/18/2021 12:00	1196.8
4/18/2021 12:00	4/18/2021 13:00	1131.2
4/18/2021 13:00	4/18/2021 14:00	1068.6
4/18/2021 14:00	4/18/2021 15:00	1018.9
4/18/2021 15:00	4/18/2021 16:00	1005.6
4/18/2021 16:00	4/18/2021 17:00	1062.6
4/18/2021 17:00	4/18/2021 18:00	1083.2
4/18/2021 18:00	4/18/2021 19:00	1045.6
4/18/2021 19:00	4/18/2021 20:00	1061.2
4/18/2021 20:00	4/18/2021 21:00	1070.5
4/18/2021 21:00	4/18/2021 22:00	1016.4
4/18/2021 22:00	4/18/2021 23:00	938.9
4/18/2021 23:00	4/19/2021 0:00	862.5
4/19/2021 0:00	4/19/2021 1:00	810.4
4/19/2021 1:00	4/19/2021 2:00	823.4
4/19/2021 2:00	4/19/2021 3:00	886.1
4/19/2021 3:00	4/19/2021 4:00	904.0
4/19/2021 4:00	4/19/2021 5:00	918.6
4/19/2021 5:00	4/19/2021 6:00	971.6
4/19/2021 6:00	4/19/2021 7:00	1045.6
4/19/2021 7:00	4/19/2021 8:00	1084.5
4/19/2021 8:00	4/19/2021 9:00	1120.0
4/19/2021 9:00	4/19/2021 10:00	1063.3
4/19/2021 10:00	4/19/2021 11:00	1068.6
4/19/2021 11:00	4/19/2021 12:00	1102.9
4/19/2021 12:00	4/19/2021 13:00	1058.5
4/19/2021 13:00	4/19/2021 14:00	1006.4
4/19/2021 14:00	4/19/2021 15:00	988.5
4/19/2021 15:00	4/19/2021 16:00	978.4
4/19/2021 16:00	4/19/2021 17:00	1002.6
4/19/2021 17:00	4/19/2021 18:00	1032.1
4/19/2021 18:00	4/19/2021 19:00	1030.4
4/19/2021 19:00	4/19/2021 20:00	1043.9
4/19/2021 20:00	4/19/2021 21:00	1065.8
4/19/2021 21:00	4/19/2021 22:00	1014.2
4/19/2021 22:00	4/19/2021 23:00	923.0
4/19/2021 23:00	4/20/2021 0:00	859.3
4/20/2021 0:00	4/20/2021 1:00	908.5

Start Time	End Time	ANL_MW
4/20/2021 1:00	4/20/2021 2:00	917.5
4/20/2021 2:00	4/20/2021 3:00	871.2
4/20/2021 3:00	4/20/2021 4:00	878.1
4/20/2021 4:00	4/20/2021 5:00	908.8
4/20/2021 5:00	4/20/2021 6:00	1005.8
4/20/2021 6:00	4/20/2021 7:00	1084.0
4/20/2021 7:00	4/20/2021 8:00	1110.0
4/20/2021 8:00	4/20/2021 9:00	1141.6
4/20/2021 9:00	4/20/2021 10:00	1103.0
4/20/2021 10:00	4/20/2021 11:00	1078.0
4/20/2021 11:00	4/20/2021 12:00	1072.0
4/20/2021 12:00	4/20/2021 13:00	1095.5
4/20/2021 13:00	4/20/2021 14:00	1088.6
4/20/2021 14:00	4/20/2021 15:00	1045.7
4/20/2021 15:00	4/20/2021 16:00	1044.4
4/20/2021 16:00	4/20/2021 17:00	1084.0
4/20/2021 17:00	4/20/2021 18:00	1096.9
4/20/2021 18:00	4/20/2021 19:00	1082.9
4/20/2021 19:00	4/20/2021 20:00	1057.9
4/20/2021 20:00	4/20/2021 21:00	1061.8
4/20/2021 21:00	4/20/2021 22:00	1006.7
4/20/2021 22:00	4/20/2021 23:00	874.4
4/20/2021 23:00	4/21/2021 0:00	789.9
4/21/2021 0:00	4/21/2021 1:00	774.2
4/21/2021 1:00	4/21/2021 2:00	772.3
4/21/2021 2:00	4/21/2021 3:00	744.9
4/21/2021 3:00	4/21/2021 4:00	787.1
4/21/2021 4:00	4/21/2021 5:00	787.0
4/21/2021 5:00	4/21/2021 6:00	876.2
4/21/2021 6:00	4/21/2021 7:00	1011.3
4/21/2021 7:00	4/21/2021 8:00	1123.2
4/21/2021 8:00	4/21/2021 9:00	1135.8
4/21/2021 9:00	4/21/2021 10:00	1086.8
4/21/2021 10:00	4/21/2021 11:00	1035.9
4/21/2021 11:00	4/21/2021 12:00	963.0
4/21/2021 12:00	4/21/2021 13:00	881.8
4/21/2021 13:00	4/21/2021 14:00	812.4
4/21/2021 14:00	4/21/2021 15:00	721.9
4/21/2021 15:00	4/21/2021 16:00	672.9
4/21/2021 16:00	4/21/2021 17:00	696.2
4/21/2021 17:00	4/21/2021 18:00	737.7
4/21/2021 18:00	4/21/2021 19:00	751.4
4/21/2021 19:00	4/21/2021 20:00	756.6
4/21/2021 20:00	4/21/2021 21:00	817.4
4/21/2021 21:00	4/21/2021 22:00	839.3
4/21/2021 22:00	4/21/2021 23:00	750.4
4/21/2021 23:00	4/22/2021 0:00	661.8
4/22/2021 0:00	4/22/2021 1:00	593.5
4/22/2021 1:00	4/22/2021 2:00	584.9
4/22/2021 2:00	4/22/2021 3:00	560.3
4/22/2021 3:00	4/22/2021 4:00	582.1
4/22/2021 4:00	4/22/2021 5:00	553.5
4/22/2021 5:00	4/22/2021 6:00	566.6
4/22/2021 6:00	4/22/2021 7:00	695.1
4/22/2021 7:00	4/22/2021 8:00	826.1
4/22/2021 8:00	4/22/2021 9:00	736.2
4/22/2021 9:00	4/22/2021 10:00	707.9
4/22/2021 10:00	4/22/2021 11:00	685.8
4/22/2021 11:00	4/22/2021 12:00	707.8
4/22/2021 12:00	4/22/2021 13:00	699.7
4/22/2021 13:00	4/22/2021 14:00	663.6
4/22/2021 14:00	4/22/2021 15:00	672.3
4/22/2021 15:00	4/22/2021 16:00	724.3
4/22/2021 16:00	4/22/2021 17:00	750.1
4/22/2021 17:00	4/22/2021 18:00	800.4
4/22/2021 18:00	4/22/2021 19:00	777.8
4/22/2021 19:00	4/22/2021 20:00	859.7
4/22/2021 20:00	4/22/2021 21:00	893.8
4/22/2021 21:00	4/22/2021 22:00	852.3
4/22/2021 22:00	4/22/2021 23:00	789.6

Start Time	End Time	ANL_MW
4/22/2021 23:00	4/23/2021 0:00	789.5
4/23/2021 0:00	4/23/2021 1:00	774.2
4/23/2021 1:00	4/23/2021 2:00	747.5
4/23/2021 2:00	4/23/2021 3:00	733.6
4/23/2021 3:00	4/23/2021 4:00	715.0
4/23/2021 4:00	4/23/2021 5:00	719.4
4/23/2021 5:00	4/23/2021 6:00	701.4
4/23/2021 6:00	4/23/2021 7:00	826.5
4/23/2021 7:00	4/23/2021 8:00	930.3
4/23/2021 8:00	4/23/2021 9:00	958.8
4/23/2021 9:00	4/23/2021 10:00	958.5
4/23/2021 10:00	4/23/2021 11:00	932.4
4/23/2021 11:00	4/23/2021 12:00	903.9
4/23/2021 12:00	4/23/2021 13:00	912.5
4/23/2021 13:00	4/23/2021 14:00	910.0
4/23/2021 14:00	4/23/2021 15:00	884.7
4/23/2021 15:00	4/23/2021 16:00	906.4
4/23/2021 16:00	4/23/2021 17:00	952.9
4/23/2021 17:00	4/23/2021 18:00	954.8
4/23/2021 18:00	4/23/2021 19:00	952.4
4/23/2021 19:00	4/23/2021 20:00	975.2
4/23/2021 20:00	4/23/2021 21:00	1053.0
4/23/2021 21:00	4/23/2021 22:00	1009.1
4/23/2021 22:00	4/23/2021 23:00	902.7
4/23/2021 23:00	4/24/2021 0:00	812.4
4/24/2021 0:00	4/24/2021 1:00	818.6
4/24/2021 1:00	4/24/2021 2:00	758.3
4/24/2021 2:00	4/24/2021 3:00	744.0
4/24/2021 3:00	4/24/2021 4:00	769.5
4/24/2021 4:00	4/24/2021 5:00	770.2
4/24/2021 5:00	4/24/2021 6:00	791.7
4/24/2021 6:00	4/24/2021 7:00	775.7
4/24/2021 7:00	4/24/2021 8:00	802.3
4/24/2021 8:00	4/24/2021 9:00	846.8
4/24/2021 9:00	4/24/2021 10:00	893.2
4/24/2021 10:00	4/24/2021 11:00	862.9
4/24/2021 11:00	4/24/2021 12:00	865.6
4/24/2021 12:00	4/24/2021 13:00	853.3
4/24/2021 13:00	4/24/2021 14:00	821.6
4/24/2021 14:00	4/24/2021 15:00	816.4
4/24/2021 15:00	4/24/2021 16:00	841.8
4/24/2021 16:00	4/24/2021 17:00	833.4
4/24/2021 17:00	4/24/2021 18:00	883.9
4/24/2021 18:00	4/24/2021 19:00	919.4
4/24/2021 19:00	4/24/2021 20:00	964.6
4/24/2021 20:00	4/24/2021 21:00	1027.1
4/24/2021 21:00	4/24/2021 22:00	1032.4
4/24/2021 22:00	4/24/2021 23:00	969.3
4/24/2021 23:00	4/25/2021 0:00	867.5
4/25/2021 0:00	4/25/2021 1:00	786.7
4/25/2021 1:00	4/25/2021 2:00	765.2
4/25/2021 2:00	4/25/2021 3:00	830.0
4/25/2021 3:00	4/25/2021 4:00	832.2
4/25/2021 4:00	4/25/2021 5:00	844.8
4/25/2021 5:00	4/25/2021 6:00	877.2
4/25/2021 6:00	4/25/2021 7:00	925.3
4/25/2021 7:00	4/25/2021 8:00	977.1
4/25/2021 8:00	4/25/2021 9:00	1015.6
4/25/2021 9:00	4/25/2021 10:00	1064.2
4/25/2021 10:00	4/25/2021 11:00	1072.6
4/25/2021 11:00	4/25/2021 12:00	1035.1
4/25/2021 12:00	4/25/2021 13:00	951.3
4/25/2021 13:00	4/25/2021 14:00	826.8
4/25/2021 14:00	4/25/2021 15:00	847.6
4/25/2021 15:00	4/25/2021 16:00	853.9
4/25/2021 16:00	4/25/2021 17:00	908.6
4/25/2021 17:00	4/25/2021 18:00	990.4
4/25/2021 18:00	4/25/2021 19:00	1045.9
4/25/2021 19:00	4/25/2021 20:00	1054.8
4/25/2021 20:00	4/25/2021 21:00	1007.0

Start Time	End Time	ANL_MW
4/25/2021 21:00	4/25/2021 22:00	923.3
4/25/2021 22:00	4/25/2021 23:00	893.4
4/25/2021 23:00	4/26/2021 0:00	813.4
4/26/2021 0:00	4/26/2021 1:00	724.9
4/26/2021 1:00	4/26/2021 2:00	662.1
4/26/2021 2:00	4/26/2021 3:00	693.2
4/26/2021 3:00	4/26/2021 4:00	723.6
4/26/2021 4:00	4/26/2021 5:00	746.1
4/26/2021 5:00	4/26/2021 6:00	804.1
4/26/2021 6:00	4/26/2021 7:00	909.5
4/26/2021 7:00	4/26/2021 8:00	1022.2
4/26/2021 8:00	4/26/2021 9:00	1073.9
4/26/2021 9:00	4/26/2021 10:00	1086.5
4/26/2021 10:00	4/26/2021 11:00	1061.9
4/26/2021 11:00	4/26/2021 12:00	996.0
4/26/2021 12:00	4/26/2021 13:00	1005.8
4/26/2021 13:00	4/26/2021 14:00	969.6
4/26/2021 14:00	4/26/2021 15:00	990.3
4/26/2021 15:00	4/26/2021 16:00	991.2
4/26/2021 16:00	4/26/2021 17:00	1026.9
4/26/2021 17:00	4/26/2021 18:00	1057.0
4/26/2021 18:00	4/26/2021 19:00	974.8
4/26/2021 19:00	4/26/2021 20:00	989.0
4/26/2021 20:00	4/26/2021 21:00	983.7
4/26/2021 21:00	4/26/2021 22:00	980.2
4/26/2021 22:00	4/26/2021 23:00	915.9
4/26/2021 23:00	4/27/2021 0:00	879.5
4/27/2021 0:00	4/27/2021 1:00	860.5
4/27/2021 1:00	4/27/2021 2:00	834.1
4/27/2021 2:00	4/27/2021 3:00	797.2
4/27/2021 3:00	4/27/2021 4:00	801.0
4/27/2021 4:00	4/27/2021 5:00	829.6
4/27/2021 5:00	4/27/2021 6:00	823.9
4/27/2021 6:00	4/27/2021 7:00	914.4
4/27/2021 7:00	4/27/2021 8:00	1006.9
4/27/2021 8:00	4/27/2021 9:00	1046.1
4/27/2021 9:00	4/27/2021 10:00	1054.4
4/27/2021 10:00	4/27/2021 11:00	1039.8
4/27/2021 11:00	4/27/2021 12:00	1023.6
4/27/2021 12:00	4/27/2021 13:00	1036.5
4/27/2021 13:00	4/27/2021 14:00	1029.9
4/27/2021 14:00	4/27/2021 15:00	1020.0
4/27/2021 15:00	4/27/2021 16:00	1011.4
4/27/2021 16:00	4/27/2021 17:00	1065.9
4/27/2021 17:00	4/27/2021 18:00	1024.2
4/27/2021 18:00	4/27/2021 19:00	1012.5
4/27/2021 19:00	4/27/2021 20:00	1033.3
4/27/2021 20:00	4/27/2021 21:00	1111.1
4/27/2021 21:00	4/27/2021 22:00	1084.8
4/27/2021 22:00	4/27/2021 23:00	1025.6
4/27/2021 23:00	4/28/2021 0:00	984.0
4/28/2021 0:00	4/28/2021 1:00	959.7
4/28/2021 1:00	4/28/2021 2:00	927.5
4/28/2021 2:00	4/28/2021 3:00	891.0
4/28/2021 3:00	4/28/2021 4:00	873.5
4/28/2021 4:00	4/28/2021 5:00	909.0
4/28/2021 5:00	4/28/2021 6:00	888.7
4/28/2021 6:00	4/28/2021 7:00	944.2
4/28/2021 7:00	4/28/2021 8:00	1047.9
4/28/2021 8:00	4/28/2021 9:00	1090.8
4/28/2021 9:00	4/28/2021 10:00	1090.4
4/28/2021 10:00	4/28/2021 11:00	1032.3
4/28/2021 11:00	4/28/2021 12:00	1002.2
4/28/2021 12:00	4/28/2021 13:00	978.7
4/28/2021 13:00	4/28/2021 14:00	949.0
4/28/2021 14:00	4/28/2021 15:00	946.3
4/28/2021 15:00	4/28/2021 16:00	929.0
4/28/2021 16:00	4/28/2021 17:00	959.8
4/28/2021 17:00	4/28/2021 18:00	1046.0
4/28/2021 18:00	4/28/2021 19:00	1036.7

Start Time	End Time	ANL_MW
4/28/2021 19:00	4/28/2021 20:00	1047.3
4/28/2021 20:00	4/28/2021 21:00	1085.3
4/28/2021 21:00	4/28/2021 22:00	1044.5
4/28/2021 22:00	4/28/2021 23:00	999.0
4/28/2021 23:00	4/29/2021 0:00	949.7
4/29/2021 0:00	4/29/2021 1:00	897.8
4/29/2021 1:00	4/29/2021 2:00	881.9
4/29/2021 2:00	4/29/2021 3:00	913.2
4/29/2021 3:00	4/29/2021 4:00	926.6
4/29/2021 4:00	4/29/2021 5:00	939.7
4/29/2021 5:00	4/29/2021 6:00	1005.2
4/29/2021 6:00	4/29/2021 7:00	1018.4
4/29/2021 7:00	4/29/2021 8:00	1092.6
4/29/2021 8:00	4/29/2021 9:00	1122.0
4/29/2021 9:00	4/29/2021 10:00	1112.3
4/29/2021 10:00	4/29/2021 11:00	1101.8
4/29/2021 11:00	4/29/2021 12:00	1112.0
4/29/2021 12:00	4/29/2021 13:00	1097.6
4/29/2021 13:00	4/29/2021 14:00	1115.3
4/29/2021 14:00	4/29/2021 15:00	1079.4
4/29/2021 15:00	4/29/2021 16:00	1028.2
4/29/2021 16:00	4/29/2021 17:00	1068.2
4/29/2021 17:00	4/29/2021 18:00	1101.7
4/29/2021 18:00	4/29/2021 19:00	1079.6
4/29/2021 19:00	4/29/2021 20:00	1046.2
4/29/2021 20:00	4/29/2021 21:00	1042.3
4/29/2021 21:00	4/29/2021 22:00	1022.9
4/29/2021 22:00	4/29/2021 23:00	972.3
4/29/2021 23:00	4/30/2021 0:00	939.4
4/30/2021 0:00	4/30/2021 1:00	937.4
4/30/2021 1:00	4/30/2021 2:00	919.9
4/30/2021 2:00	4/30/2021 3:00	895.8
4/30/2021 3:00	4/30/2021 4:00	858.1
4/30/2021 4:00	4/30/2021 5:00	813.5
4/30/2021 5:00	4/30/2021 6:00	886.0
4/30/2021 6:00	4/30/2021 7:00	919.2
4/30/2021 7:00	4/30/2021 8:00	965.6
4/30/2021 8:00	4/30/2021 9:00	1020.5
4/30/2021 9:00	4/30/2021 10:00	1054.0
4/30/2021 10:00	4/30/2021 11:00	1030.7
4/30/2021 11:00	4/30/2021 12:00	1060.7
4/30/2021 12:00	4/30/2021 13:00	1031.2
4/30/2021 13:00	4/30/2021 14:00	941.7
4/30/2021 14:00	4/30/2021 15:00	911.1
4/30/2021 15:00	4/30/2021 16:00	908.6
4/30/2021 16:00	4/30/2021 17:00	940.8
4/30/2021 17:00	4/30/2021 18:00	1006.2
4/30/2021 18:00	4/30/2021 19:00	973.0
4/30/2021 19:00	4/30/2021 20:00	886.7
4/30/2021 20:00	4/30/2021 21:00	873.6
4/30/2021 21:00	4/30/2021 22:00	914.2
4/30/2021 22:00	4/30/2021 23:00	961.1
4/30/2021 23:00	5/1/2021 0:00	904.0
5/1/2021 0:00	5/1/2021 1:00	840.1
5/1/2021 1:00	5/1/2021 2:00	784.7
5/1/2021 2:00	5/1/2021 3:00	731.7
5/1/2021 3:00	5/1/2021 4:00	685.4
5/1/2021 4:00	5/1/2021 5:00	659.4
5/1/2021 5:00	5/1/2021 6:00	669.0
5/1/2021 6:00	5/1/2021 7:00	699.4
5/1/2021 7:00	5/1/2021 8:00	770.7
5/1/2021 8:00	5/1/2021 9:00	838.4
5/1/2021 9:00	5/1/2021 10:00	889.3
5/1/2021 10:00	5/1/2021 11:00	850.7
5/1/2021 11:00	5/1/2021 12:00	832.0
5/1/2021 12:00	5/1/2021 13:00	845.1
5/1/2021 13:00	5/1/2021 14:00	817.0
5/1/2021 14:00	5/1/2021 15:00	800.4
5/1/2021 15:00	5/1/2021 16:00	806.3
5/1/2021 16:00	5/1/2021 17:00	839.8

Start Time	End Time	ANL_MW
5/1/2021 17:00	5/1/2021 18:00	857.7
5/1/2021 18:00	5/1/2021 19:00	850.8
5/1/2021 19:00	5/1/2021 20:00	906.1
5/1/2021 20:00	5/1/2021 21:00	973.8
5/1/2021 21:00	5/1/2021 22:00	938.8
5/1/2021 22:00	5/1/2021 23:00	817.5
5/1/2021 23:00	5/2/2021 0:00	732.0
5/2/2021 0:00	5/2/2021 1:00	681.8
5/2/2021 1:00	5/2/2021 2:00	725.9
5/2/2021 2:00	5/2/2021 3:00	695.1
5/2/2021 3:00	5/2/2021 4:00	673.3
5/2/2021 4:00	5/2/2021 5:00	692.2
5/2/2021 5:00	5/2/2021 6:00	742.8
5/2/2021 6:00	5/2/2021 7:00	754.7
5/2/2021 7:00	5/2/2021 8:00	829.1
5/2/2021 8:00	5/2/2021 9:00	967.7
5/2/2021 9:00	5/2/2021 10:00	1016.3
5/2/2021 10:00	5/2/2021 11:00	995.1
5/2/2021 11:00	5/2/2021 12:00	971.5
5/2/2021 12:00	5/2/2021 13:00	906.3
5/2/2021 13:00	5/2/2021 14:00	804.2
5/2/2021 14:00	5/2/2021 15:00	767.7
5/2/2021 15:00	5/2/2021 16:00	808.5
5/2/2021 16:00	5/2/2021 17:00	901.7
5/2/2021 17:00	5/2/2021 18:00	1012.0
5/2/2021 18:00	5/2/2021 19:00	1018.8
5/2/2021 19:00	5/2/2021 20:00	1026.5
5/2/2021 20:00	5/2/2021 21:00	1019.9
5/2/2021 21:00	5/2/2021 22:00	967.8
5/2/2021 22:00	5/2/2021 23:00	870.6
5/2/2021 23:00	5/3/2021 0:00	770.3
5/3/2021 0:00	5/3/2021 1:00	664.2
5/3/2021 1:00	5/3/2021 2:00	607.5
5/3/2021 2:00	5/3/2021 3:00	658.2
5/3/2021 3:00	5/3/2021 4:00	655.9
5/3/2021 4:00	5/3/2021 5:00	659.3
5/3/2021 5:00	5/3/2021 6:00	707.7
5/3/2021 6:00	5/3/2021 7:00	781.2
5/3/2021 7:00	5/3/2021 8:00	851.3
5/3/2021 8:00	5/3/2021 9:00	889.6
5/3/2021 9:00	5/3/2021 10:00	936.9
5/3/2021 10:00	5/3/2021 11:00	975.8
5/3/2021 11:00	5/3/2021 12:00	933.7
5/3/2021 12:00	5/3/2021 13:00	938.2
5/3/2021 13:00	5/3/2021 14:00	883.3
5/3/2021 14:00	5/3/2021 15:00	862.1
5/3/2021 15:00	5/3/2021 16:00	863.3
5/3/2021 16:00	5/3/2021 17:00	902.1
5/3/2021 17:00	5/3/2021 18:00	959.9
5/3/2021 18:00	5/3/2021 19:00	991.5
5/3/2021 19:00	5/3/2021 20:00	1007.0
5/3/2021 20:00	5/3/2021 21:00	1006.9
5/3/2021 21:00	5/3/2021 22:00	950.1
5/3/2021 22:00	5/3/2021 23:00	886.7
5/3/2021 23:00	5/4/2021 0:00	825.6
5/4/2021 0:00	5/4/2021 1:00	791.4
5/4/2021 1:00	5/4/2021 2:00	806.2
5/4/2021 2:00	5/4/2021 3:00	825.3
5/4/2021 3:00	5/4/2021 4:00	801.2
5/4/2021 4:00	5/4/2021 5:00	830.8
5/4/2021 5:00	5/4/2021 6:00	924.9
5/4/2021 6:00	5/4/2021 7:00	991.9
5/4/2021 7:00	5/4/2021 8:00	1082.2
5/4/2021 8:00	5/4/2021 9:00	1126.6
5/4/2021 9:00	5/4/2021 10:00	1122.9
5/4/2021 10:00	5/4/2021 11:00	1116.0
5/4/2021 11:00	5/4/2021 12:00	1095.8
5/4/2021 12:00	5/4/2021 13:00	1070.5
5/4/2021 13:00	5/4/2021 14:00	1032.7
5/4/2021 14:00	5/4/2021 15:00	990.6

Start Time	End Time	ANL_MW
5/4/2021 15:00	5/4/2021 16:00	969.9
5/4/2021 16:00	5/4/2021 17:00	1000.8
5/4/2021 17:00	5/4/2021 18:00	1064.6
5/4/2021 18:00	5/4/2021 19:00	1080.4
5/4/2021 19:00	5/4/2021 20:00	1064.8
5/4/2021 20:00	5/4/2021 21:00	1041.1
5/4/2021 21:00	5/4/2021 22:00	1007.8
5/4/2021 22:00	5/4/2021 23:00	936.8
5/4/2021 23:00	5/5/2021 0:00	893.9
5/5/2021 0:00	5/5/2021 1:00	872.2
5/5/2021 1:00	5/5/2021 2:00	832.2
5/5/2021 2:00	5/5/2021 3:00	838.6
5/5/2021 3:00	5/5/2021 4:00	844.6
5/5/2021 4:00	5/5/2021 5:00	878.7
5/5/2021 5:00	5/5/2021 6:00	942.7
5/5/2021 6:00	5/5/2021 7:00	1000.4
5/5/2021 7:00	5/5/2021 8:00	1106.3
5/5/2021 8:00	5/5/2021 9:00	1187.6
5/5/2021 9:00	5/5/2021 10:00	1200.5
5/5/2021 10:00	5/5/2021 11:00	1186.3
5/5/2021 11:00	5/5/2021 12:00	1165.9
5/5/2021 12:00	5/5/2021 13:00	1116.5
5/5/2021 13:00	5/5/2021 14:00	1074.2
5/5/2021 14:00	5/5/2021 15:00	1042.2
5/5/2021 15:00	5/5/2021 16:00	1037.9
5/5/2021 16:00	5/5/2021 17:00	1100.2
5/5/2021 17:00	5/5/2021 18:00	1155.5
5/5/2021 18:00	5/5/2021 19:00	1119.8
5/5/2021 19:00	5/5/2021 20:00	1082.1
5/5/2021 20:00	5/5/2021 21:00	1034.1
5/5/2021 21:00	5/5/2021 22:00	977.7
5/5/2021 22:00	5/5/2021 23:00	871.2
5/5/2021 23:00	5/6/2021 0:00	823.5
5/6/2021 0:00	5/6/2021 1:00	754.8
5/6/2021 1:00	5/6/2021 2:00	737.8
5/6/2021 2:00	5/6/2021 3:00	704.3
5/6/2021 3:00	5/6/2021 4:00	677.3
5/6/2021 4:00	5/6/2021 5:00	696.6
5/6/2021 5:00	5/6/2021 6:00	744.7
5/6/2021 6:00	5/6/2021 7:00	810.0
5/6/2021 7:00	5/6/2021 8:00	942.8
5/6/2021 8:00	5/6/2021 9:00	1058.9
5/6/2021 9:00	5/6/2021 10:00	1090.6
5/6/2021 10:00	5/6/2021 11:00	1110.6
5/6/2021 11:00	5/6/2021 12:00	1107.2
5/6/2021 12:00	5/6/2021 13:00	1085.0
5/6/2021 13:00	5/6/2021 14:00	1045.1
5/6/2021 14:00	5/6/2021 15:00	1016.3
5/6/2021 15:00	5/6/2021 16:00	1002.6
5/6/2021 16:00	5/6/2021 17:00	1023.5
5/6/2021 17:00	5/6/2021 18:00	1044.1
5/6/2021 18:00	5/6/2021 19:00	967.0
5/6/2021 19:00	5/6/2021 20:00	942.2
5/6/2021 20:00	5/6/2021 21:00	914.3
5/6/2021 21:00	5/6/2021 22:00	902.0
5/6/2021 22:00	5/6/2021 23:00	867.5
5/6/2021 23:00	5/7/2021 0:00	852.1
5/7/2021 0:00	5/7/2021 1:00	823.4
5/7/2021 1:00	5/7/2021 2:00	806.2
5/7/2021 2:00	5/7/2021 3:00	765.7
5/7/2021 3:00	5/7/2021 4:00	774.1
5/7/2021 4:00	5/7/2021 5:00	841.4
5/7/2021 5:00	5/7/2021 6:00	953.5
5/7/2021 6:00	5/7/2021 7:00	1030.5
5/7/2021 7:00	5/7/2021 8:00	1148.7
5/7/2021 8:00	5/7/2021 9:00	1180.8
5/7/2021 9:00	5/7/2021 10:00	1152.2
5/7/2021 10:00	5/7/2021 11:00	1142.8
5/7/2021 11:00	5/7/2021 12:00	1145.5
5/7/2021 12:00	5/7/2021 13:00	1149.5

Start Time	End Time	ANL_MW
5/7/2021 13:00	5/7/2021 14:00	1140.6
5/7/2021 14:00	5/7/2021 15:00	1092.8
5/7/2021 15:00	5/7/2021 16:00	1070.8
5/7/2021 16:00	5/7/2021 17:00	1126.9
5/7/2021 17:00	5/7/2021 18:00	1158.3
5/7/2021 18:00	5/7/2021 19:00	1157.2
5/7/2021 19:00	5/7/2021 20:00	1151.8
5/7/2021 20:00	5/7/2021 21:00	1170.9
5/7/2021 21:00	5/7/2021 22:00	1150.2
5/7/2021 22:00	5/7/2021 23:00	1088.8
5/7/2021 23:00	5/8/2021 0:00	1057.6
5/8/2021 0:00	5/8/2021 1:00	1009.9
5/8/2021 1:00	5/8/2021 2:00	947.5
5/8/2021 2:00	5/8/2021 3:00	935.4
5/8/2021 3:00	5/8/2021 4:00	932.8
5/8/2021 4:00	5/8/2021 5:00	930.7
5/8/2021 5:00	5/8/2021 6:00	941.8
5/8/2021 6:00	5/8/2021 7:00	972.2
5/8/2021 7:00	5/8/2021 8:00	982.5
5/8/2021 8:00	5/8/2021 9:00	967.6
5/8/2021 9:00	5/8/2021 10:00	932.0
5/8/2021 10:00	5/8/2021 11:00	960.9
5/8/2021 11:00	5/8/2021 12:00	1059.6
5/8/2021 12:00	5/8/2021 13:00	1046.9
5/8/2021 13:00	5/8/2021 14:00	993.9
5/8/2021 14:00	5/8/2021 15:00	990.2
5/8/2021 15:00	5/8/2021 16:00	948.2
5/8/2021 16:00	5/8/2021 17:00	968.1
5/8/2021 17:00	5/8/2021 18:00	957.1
5/8/2021 18:00	5/8/2021 19:00	892.6
5/8/2021 19:00	5/8/2021 20:00	871.6
5/8/2021 20:00	5/8/2021 21:00	858.0
5/8/2021 21:00	5/8/2021 22:00	819.7
5/8/2021 22:00	5/8/2021 23:00	856.2
5/8/2021 23:00	5/9/2021 0:00	784.5
5/9/2021 0:00	5/9/2021 1:00	690.5
5/9/2021 1:00	5/9/2021 2:00	651.1
5/9/2021 2:00	5/9/2021 3:00	632.6
5/9/2021 3:00	5/9/2021 4:00	652.4
5/9/2021 4:00	5/9/2021 5:00	643.9
5/9/2021 5:00	5/9/2021 6:00	653.0
5/9/2021 6:00	5/9/2021 7:00	658.2
5/9/2021 7:00	5/9/2021 8:00	723.7
5/9/2021 8:00	5/9/2021 9:00	749.5
5/9/2021 9:00	5/9/2021 10:00	802.6
5/9/2021 10:00	5/9/2021 11:00	828.1
5/9/2021 11:00	5/9/2021 12:00	833.4
5/9/2021 12:00	5/9/2021 13:00	798.7
5/9/2021 13:00	5/9/2021 14:00	826.9
5/9/2021 14:00	5/9/2021 15:00	797.2
5/9/2021 15:00	5/9/2021 16:00	779.5
5/9/2021 16:00	5/9/2021 17:00	837.2
5/9/2021 17:00	5/9/2021 18:00	898.8
5/9/2021 18:00	5/9/2021 19:00	875.8
5/9/2021 19:00	5/9/2021 20:00	952.2
5/9/2021 20:00	5/9/2021 21:00	1004.2
5/9/2021 21:00	5/9/2021 22:00	998.5
5/9/2021 22:00	5/9/2021 23:00	915.7
5/9/2021 23:00	5/10/2021 0:00	849.0
5/10/2021 0:00	5/10/2021 1:00	824.5
5/10/2021 1:00	5/10/2021 2:00	796.6
5/10/2021 2:00	5/10/2021 3:00	826.9
5/10/2021 3:00	5/10/2021 4:00	829.5
5/10/2021 4:00	5/10/2021 5:00	845.8
5/10/2021 5:00	5/10/2021 6:00	935.7
5/10/2021 6:00	5/10/2021 7:00	1045.2
5/10/2021 7:00	5/10/2021 8:00	1180.6
5/10/2021 8:00	5/10/2021 9:00	1239.9
5/10/2021 9:00	5/10/2021 10:00	1248.1
5/10/2021 10:00	5/10/2021 11:00	1255.8

Start Time	End Time	ANL_MW
5/10/2021 11:00	5/10/2021 12:00	1210.4
5/10/2021 12:00	5/10/2021 13:00	1178.2
5/10/2021 13:00	5/10/2021 14:00	1115.3
5/10/2021 14:00	5/10/2021 15:00	1074.7
5/10/2021 15:00	5/10/2021 16:00	1080.5
5/10/2021 16:00	5/10/2021 17:00	1140.0
5/10/2021 17:00	5/10/2021 18:00	1154.9
5/10/2021 18:00	5/10/2021 19:00	1094.3
5/10/2021 19:00	5/10/2021 20:00	1148.3
5/10/2021 20:00	5/10/2021 21:00	1155.4
5/10/2021 21:00	5/10/2021 22:00	1155.5
5/10/2021 22:00	5/10/2021 23:00	1075.7
5/10/2021 23:00	5/11/2021 0:00	1038.0
5/11/2021 0:00	5/11/2021 1:00	1004.7
5/11/2021 1:00	5/11/2021 2:00	925.0
5/11/2021 2:00	5/11/2021 3:00	886.8
5/11/2021 3:00	5/11/2021 4:00	893.9
5/11/2021 4:00	5/11/2021 5:00	887.1
5/11/2021 5:00	5/11/2021 6:00	934.8
5/11/2021 6:00	5/11/2021 7:00	1043.7
5/11/2021 7:00	5/11/2021 8:00	1139.0
5/11/2021 8:00	5/11/2021 9:00	1198.2
5/11/2021 9:00	5/11/2021 10:00	1214.8
5/11/2021 10:00	5/11/2021 11:00	1114.1
5/11/2021 11:00	5/11/2021 12:00	1138.2
5/11/2021 12:00	5/11/2021 13:00	1157.8
5/11/2021 13:00	5/11/2021 14:00	1120.0
5/11/2021 14:00	5/11/2021 15:00	1045.8
5/11/2021 15:00	5/11/2021 16:00	1065.9
5/11/2021 16:00	5/11/2021 17:00	1124.3
5/11/2021 17:00	5/11/2021 18:00	1146.4
5/11/2021 18:00	5/11/2021 19:00	1153.0
5/11/2021 19:00	5/11/2021 20:00	1131.3
5/11/2021 20:00	5/11/2021 21:00	1140.0
5/11/2021 21:00	5/11/2021 22:00	1132.9
5/11/2021 22:00	5/11/2021 23:00	1053.5
5/11/2021 23:00	5/12/2021 0:00	1028.5
5/12/2021 0:00	5/12/2021 1:00	1023.8
5/12/2021 1:00	5/12/2021 2:00	980.3
5/12/2021 2:00	5/12/2021 3:00	934.3
5/12/2021 3:00	5/12/2021 4:00	923.1
5/12/2021 4:00	5/12/2021 5:00	919.7
5/12/2021 5:00	5/12/2021 6:00	969.3
5/12/2021 6:00	5/12/2021 7:00	1060.9
5/12/2021 7:00	5/12/2021 8:00	1119.2
5/12/2021 8:00	5/12/2021 9:00	1209.4
5/12/2021 9:00	5/12/2021 10:00	1238.2
5/12/2021 10:00	5/12/2021 11:00	1234.7
5/12/2021 11:00	5/12/2021 12:00	1226.1
5/12/2021 12:00	5/12/2021 13:00	1229.6
5/12/2021 13:00	5/12/2021 14:00	1161.8
5/12/2021 14:00	5/12/2021 15:00	1084.7
5/12/2021 15:00	5/12/2021 16:00	1039.0
5/12/2021 16:00	5/12/2021 17:00	1070.3
5/12/2021 17:00	5/12/2021 18:00	1102.1
5/12/2021 18:00	5/12/2021 19:00	1098.2
5/12/2021 19:00	5/12/2021 20:00	1110.8
5/12/2021 20:00	5/12/2021 21:00	1137.4
5/12/2021 21:00	5/12/2021 22:00	1131.3
5/12/2021 22:00	5/12/2021 23:00	1051.5
5/12/2021 23:00	5/13/2021 0:00	1004.3
5/13/2021 0:00	5/13/2021 1:00	1007.8
5/13/2021 1:00	5/13/2021 2:00	980.3
5/13/2021 2:00	5/13/2021 3:00	1011.5
5/13/2021 3:00	5/13/2021 4:00	1011.5
5/13/2021 4:00	5/13/2021 5:00	1003.3
5/13/2021 5:00	5/13/2021 6:00	1037.2
5/13/2021 6:00	5/13/2021 7:00	1115.3
5/13/2021 7:00	5/13/2021 8:00	1203.2
5/13/2021 8:00	5/13/2021 9:00	1198.2

Start Time	End Time	ANL_MW
5/13/2021 9:00	5/13/2021 10:00	1166.4
5/13/2021 10:00	5/13/2021 11:00	1102.7
5/13/2021 11:00	5/13/2021 12:00	1058.2
5/13/2021 12:00	5/13/2021 13:00	996.5
5/13/2021 13:00	5/13/2021 14:00	986.9
5/13/2021 14:00	5/13/2021 15:00	961.4
5/13/2021 15:00	5/13/2021 16:00	961.3
5/13/2021 16:00	5/13/2021 17:00	946.2
5/13/2021 17:00	5/13/2021 18:00	992.6
5/13/2021 18:00	5/13/2021 19:00	983.3
5/13/2021 19:00	5/13/2021 20:00	998.1
5/13/2021 20:00	5/13/2021 21:00	1018.0
5/13/2021 21:00	5/13/2021 22:00	1058.3
5/13/2021 22:00	5/13/2021 23:00	991.4
5/13/2021 23:00	5/14/2021 0:00	931.4
5/14/2021 0:00	5/14/2021 1:00	909.3
5/14/2021 1:00	5/14/2021 2:00	871.4
5/14/2021 2:00	5/14/2021 3:00	831.5
5/14/2021 3:00	5/14/2021 4:00	833.7
5/14/2021 4:00	5/14/2021 5:00	806.5
5/14/2021 5:00	5/14/2021 6:00	880.2
5/14/2021 6:00	5/14/2021 7:00	973.3
5/14/2021 7:00	5/14/2021 8:00	1066.6
5/14/2021 8:00	5/14/2021 9:00	1136.3
5/14/2021 9:00	5/14/2021 10:00	1127.9
5/14/2021 10:00	5/14/2021 11:00	1099.4
5/14/2021 11:00	5/14/2021 12:00	1061.3
5/14/2021 12:00	5/14/2021 13:00	1051.0
5/14/2021 13:00	5/14/2021 14:00	1059.4
5/14/2021 14:00	5/14/2021 15:00	1007.2
5/14/2021 15:00	5/14/2021 16:00	977.5
5/14/2021 16:00	5/14/2021 17:00	994.3
5/14/2021 17:00	5/14/2021 18:00	981.8
5/14/2021 18:00	5/14/2021 19:00	983.3
5/14/2021 19:00	5/14/2021 20:00	985.8
5/14/2021 20:00	5/14/2021 21:00	998.3
5/14/2021 21:00	5/14/2021 22:00	999.1
5/14/2021 22:00	5/14/2021 23:00	958.2
5/14/2021 23:00	5/15/2021 0:00	959.0
5/15/2021 0:00	5/15/2021 1:00	944.8
5/15/2021 1:00	5/15/2021 2:00	980.3
5/15/2021 2:00	5/15/2021 3:00	973.0
5/15/2021 3:00	5/15/2021 4:00	982.2
5/15/2021 4:00	5/15/2021 5:00	995.2
5/15/2021 5:00	5/15/2021 6:00	949.6
5/15/2021 6:00	5/15/2021 7:00	974.9
5/15/2021 7:00	5/15/2021 8:00	1011.0
5/15/2021 8:00	5/15/2021 9:00	1061.0
5/15/2021 9:00	5/15/2021 10:00	1095.1
5/15/2021 10:00	5/15/2021 11:00	1083.2
5/15/2021 11:00	5/15/2021 12:00	1065.7
5/15/2021 12:00	5/15/2021 13:00	1021.8
5/15/2021 13:00	5/15/2021 14:00	976.0
5/15/2021 14:00	5/15/2021 15:00	955.6
5/15/2021 15:00	5/15/2021 16:00	946.1
5/15/2021 16:00	5/15/2021 17:00	995.2
5/15/2021 17:00	5/15/2021 18:00	1050.5
5/15/2021 18:00	5/15/2021 19:00	1037.3
5/15/2021 19:00	5/15/2021 20:00	1020.6
5/15/2021 20:00	5/15/2021 21:00	1027.1
5/15/2021 21:00	5/15/2021 22:00	969.6
5/15/2021 22:00	5/15/2021 23:00	921.6
5/15/2021 23:00	5/16/2021 0:00	862.4
5/16/2021 0:00	5/16/2021 1:00	822.6
5/16/2021 1:00	5/16/2021 2:00	784.4
5/16/2021 2:00	5/16/2021 3:00	734.4
5/16/2021 3:00	5/16/2021 4:00	750.4
5/16/2021 4:00	5/16/2021 5:00	740.9
5/16/2021 5:00	5/16/2021 6:00	737.7
5/16/2021 6:00	5/16/2021 7:00	751.8

Start Time	End Time	ANL_MW
5/16/2021 7:00	5/16/2021 8:00	831.7
5/16/2021 8:00	5/16/2021 9:00	939.2
5/16/2021 9:00	5/16/2021 10:00	1028.0
5/16/2021 10:00	5/16/2021 11:00	1073.8
5/16/2021 11:00	5/16/2021 12:00	1092.0
5/16/2021 12:00	5/16/2021 13:00	1084.8
5/16/2021 13:00	5/16/2021 14:00	1043.5
5/16/2021 14:00	5/16/2021 15:00	992.5
5/16/2021 15:00	5/16/2021 16:00	1005.3
5/16/2021 16:00	5/16/2021 17:00	1051.4
5/16/2021 17:00	5/16/2021 18:00	1086.2
5/16/2021 18:00	5/16/2021 19:00	1051.2
5/16/2021 19:00	5/16/2021 20:00	1047.1
5/16/2021 20:00	5/16/2021 21:00	1051.1
5/16/2021 21:00	5/16/2021 22:00	1037.5
5/16/2021 22:00	5/16/2021 23:00	1002.6
5/16/2021 23:00	5/17/2021 0:00	934.8
5/17/2021 0:00	5/17/2021 1:00	870.5
5/17/2021 1:00	5/17/2021 2:00	842.7
5/17/2021 2:00	5/17/2021 3:00	849.3
5/17/2021 3:00	5/17/2021 4:00	854.3
5/17/2021 4:00	5/17/2021 5:00	873.6
5/17/2021 5:00	5/17/2021 6:00	849.4
5/17/2021 6:00	5/17/2021 7:00	948.6
5/17/2021 7:00	5/17/2021 8:00	1009.9
5/17/2021 8:00	5/17/2021 9:00	1089.4
5/17/2021 9:00	5/17/2021 10:00	1100.0
5/17/2021 10:00	5/17/2021 11:00	1083.3
5/17/2021 11:00	5/17/2021 12:00	1071.0
5/17/2021 12:00	5/17/2021 13:00	1100.1
5/17/2021 13:00	5/17/2021 14:00	1066.3
5/17/2021 14:00	5/17/2021 15:00	1007.2
5/17/2021 15:00	5/17/2021 16:00	990.6
5/17/2021 16:00	5/17/2021 17:00	1031.3
5/17/2021 17:00	5/17/2021 18:00	1022.0
5/17/2021 18:00	5/17/2021 19:00	1038.3
5/17/2021 19:00	5/17/2021 20:00	1019.4
5/17/2021 20:00	5/17/2021 21:00	1008.9
5/17/2021 21:00	5/17/2021 22:00	1011.8
5/17/2021 22:00	5/17/2021 23:00	931.0
5/17/2021 23:00	5/18/2021 0:00	872.8
5/18/2021 0:00	5/18/2021 1:00	872.1
5/18/2021 1:00	5/18/2021 2:00	862.3
5/18/2021 2:00	5/18/2021 3:00	861.2
5/18/2021 3:00	5/18/2021 4:00	865.3
5/18/2021 4:00	5/18/2021 5:00	884.1
5/18/2021 5:00	5/18/2021 6:00	866.7
5/18/2021 6:00	5/18/2021 7:00	938.6
5/18/2021 7:00	5/18/2021 8:00	1019.0
5/18/2021 8:00	5/18/2021 9:00	1082.6
5/18/2021 9:00	5/18/2021 10:00	1088.5
5/18/2021 10:00	5/18/2021 11:00	1084.0
5/18/2021 11:00	5/18/2021 12:00	1088.5
5/18/2021 12:00	5/18/2021 13:00	1062.7
5/18/2021 13:00	5/18/2021 14:00	1013.8
5/18/2021 14:00	5/18/2021 15:00	992.6
5/18/2021 15:00	5/18/2021 16:00	1005.4
5/18/2021 16:00	5/18/2021 17:00	1068.1
5/18/2021 17:00	5/18/2021 18:00	1133.9
5/18/2021 18:00	5/18/2021 19:00	1088.1
5/18/2021 19:00	5/18/2021 20:00	1079.2
5/18/2021 20:00	5/18/2021 21:00	1070.6
5/18/2021 21:00	5/18/2021 22:00	1058.0
5/18/2021 22:00	5/18/2021 23:00	971.9
5/18/2021 23:00	5/19/2021 0:00	874.1
5/19/2021 0:00	5/19/2021 1:00	863.5
5/19/2021 1:00	5/19/2021 2:00	845.9
5/19/2021 2:00	5/19/2021 3:00	819.3
5/19/2021 3:00	5/19/2021 4:00	822.8
5/19/2021 4:00	5/19/2021 5:00	810.0

Start Time	End Time	ANL_MW
5/19/2021 5:00	5/19/2021 6:00	818.0
5/19/2021 6:00	5/19/2021 7:00	853.4
5/19/2021 7:00	5/19/2021 8:00	1002.3
5/19/2021 8:00	5/19/2021 9:00	1068.2
5/19/2021 9:00	5/19/2021 10:00	1128.7
5/19/2021 10:00	5/19/2021 11:00	1149.8
5/19/2021 11:00	5/19/2021 12:00	1162.6
5/19/2021 12:00	5/19/2021 13:00	1176.5
5/19/2021 13:00	5/19/2021 14:00	1176.4
5/19/2021 14:00	5/19/2021 15:00	1159.5
5/19/2021 15:00	5/19/2021 16:00	1148.8
5/19/2021 16:00	5/19/2021 17:00	1114.4
5/19/2021 17:00	5/19/2021 18:00	1124.1
5/19/2021 18:00	5/19/2021 19:00	1097.0
5/19/2021 19:00	5/19/2021 20:00	1073.0
5/19/2021 20:00	5/19/2021 21:00	1079.4
5/19/2021 21:00	5/19/2021 22:00	1065.5
5/19/2021 22:00	5/19/2021 23:00	1056.3
5/19/2021 23:00	5/20/2021 0:00	1020.1
5/20/2021 0:00	5/20/2021 1:00	989.7
5/20/2021 1:00	5/20/2021 2:00	977.9
5/20/2021 2:00	5/20/2021 3:00	948.1
5/20/2021 3:00	5/20/2021 4:00	947.9
5/20/2021 4:00	5/20/2021 5:00	972.6
5/20/2021 5:00	5/20/2021 6:00	1012.9
5/20/2021 6:00	5/20/2021 7:00	1029.6
5/20/2021 7:00	5/20/2021 8:00	1135.0
5/20/2021 8:00	5/20/2021 9:00	1196.0
5/20/2021 9:00	5/20/2021 10:00	1206.9
5/20/2021 10:00	5/20/2021 11:00	1204.1
5/20/2021 11:00	5/20/2021 12:00	1188.3
5/20/2021 12:00	5/20/2021 13:00	1169.8
5/20/2021 13:00	5/20/2021 14:00	1135.2
5/20/2021 14:00	5/20/2021 15:00	1093.4
5/20/2021 15:00	5/20/2021 16:00	1054.7
5/20/2021 16:00	5/20/2021 17:00	1075.1
5/20/2021 17:00	5/20/2021 18:00	1098.6
5/20/2021 18:00	5/20/2021 19:00	1074.0
5/20/2021 19:00	5/20/2021 20:00	1041.3
5/20/2021 20:00	5/20/2021 21:00	1026.9
5/20/2021 21:00	5/20/2021 22:00	982.5
5/20/2021 22:00	5/20/2021 23:00	897.3
5/20/2021 23:00	5/21/2021 0:00	854.4
5/21/2021 0:00	5/21/2021 1:00	816.2
5/21/2021 1:00	5/21/2021 2:00	783.7
5/21/2021 2:00	5/21/2021 3:00	771.1
5/21/2021 3:00	5/21/2021 4:00	785.8
5/21/2021 4:00	5/21/2021 5:00	786.9
5/21/2021 5:00	5/21/2021 6:00	812.8
5/21/2021 6:00	5/21/2021 7:00	888.2
5/21/2021 7:00	5/21/2021 8:00	965.5
5/21/2021 8:00	5/21/2021 9:00	1027.4
5/21/2021 9:00	5/21/2021 10:00	1003.6
5/21/2021 10:00	5/21/2021 11:00	1013.9
5/21/2021 11:00	5/21/2021 12:00	1023.4
5/21/2021 12:00	5/21/2021 13:00	1006.1
5/21/2021 13:00	5/21/2021 14:00	964.7
5/21/2021 14:00	5/21/2021 15:00	919.0
5/21/2021 15:00	5/21/2021 16:00	890.5
5/21/2021 16:00	5/21/2021 17:00	881.1
5/21/2021 17:00	5/21/2021 18:00	870.9
5/21/2021 18:00	5/21/2021 19:00	817.2
5/21/2021 19:00	5/21/2021 20:00	787.6
5/21/2021 20:00	5/21/2021 21:00	755.5
5/21/2021 21:00	5/21/2021 22:00	767.8
5/21/2021 22:00	5/21/2021 23:00	640.9
5/21/2021 23:00	5/22/2021 0:00	616.6
5/22/2021 0:00	5/22/2021 1:00	607.9
5/22/2021 1:00	5/22/2021 2:00	576.2
5/22/2021 2:00	5/22/2021 3:00	560.5

Start Time	End Time	ANL_MW
5/22/2021 3:00	5/22/2021 4:00	551.2
5/22/2021 4:00	5/22/2021 5:00	553.1
5/22/2021 5:00	5/22/2021 6:00	576.7
5/22/2021 6:00	5/22/2021 7:00	613.2
5/22/2021 7:00	5/22/2021 8:00	672.7
5/22/2021 8:00	5/22/2021 9:00	744.0
5/22/2021 9:00	5/22/2021 10:00	748.9
5/22/2021 10:00	5/22/2021 11:00	753.6
5/22/2021 11:00	5/22/2021 12:00	776.1
5/22/2021 12:00	5/22/2021 13:00	779.6
5/22/2021 13:00	5/22/2021 14:00	732.8
5/22/2021 14:00	5/22/2021 15:00	739.4
5/22/2021 15:00	5/22/2021 16:00	765.3
5/22/2021 16:00	5/22/2021 17:00	784.9
5/22/2021 17:00	5/22/2021 18:00	780.2
5/22/2021 18:00	5/22/2021 19:00	693.0
5/22/2021 19:00	5/22/2021 20:00	666.5
5/22/2021 20:00	5/22/2021 21:00	702.5
5/22/2021 21:00	5/22/2021 22:00	685.2
5/22/2021 22:00	5/22/2021 23:00	605.2
5/22/2021 23:00	5/23/2021 0:00	530.5
5/23/2021 0:00	5/23/2021 1:00	451.1
5/23/2021 1:00	5/23/2021 2:00	480.2
5/23/2021 2:00	5/23/2021 3:00	495.4
5/23/2021 3:00	5/23/2021 4:00	523.6
5/23/2021 4:00	5/23/2021 5:00	563.8
5/23/2021 5:00	5/23/2021 6:00	590.4
5/23/2021 6:00	5/23/2021 7:00	583.5
5/23/2021 7:00	5/23/2021 8:00	677.1
5/23/2021 8:00	5/23/2021 9:00	819.3
5/23/2021 9:00	5/23/2021 10:00	929.7
5/23/2021 10:00	5/23/2021 11:00	976.0
5/23/2021 11:00	5/23/2021 12:00	994.6
5/23/2021 12:00	5/23/2021 13:00	966.1
5/23/2021 13:00	5/23/2021 14:00	940.6
5/23/2021 14:00	5/23/2021 15:00	918.6
5/23/2021 15:00	5/23/2021 16:00	895.6
5/23/2021 16:00	5/23/2021 17:00	802.7
5/23/2021 17:00	5/23/2021 18:00	762.3
5/23/2021 18:00	5/23/2021 19:00	663.7
5/23/2021 19:00	5/23/2021 20:00	615.3
5/23/2021 20:00	5/23/2021 21:00	601.5
5/23/2021 21:00	5/23/2021 22:00	659.3
5/23/2021 22:00	5/23/2021 23:00	579.9
5/23/2021 23:00	5/24/2021 0:00	548.6
5/24/2021 0:00	5/24/2021 1:00	588.9
5/24/2021 1:00	5/24/2021 2:00	608.4
5/24/2021 2:00	5/24/2021 3:00	617.4
5/24/2021 3:00	5/24/2021 4:00	655.2
5/24/2021 4:00	5/24/2021 5:00	655.0
5/24/2021 5:00	5/24/2021 6:00	601.4
5/24/2021 6:00	5/24/2021 7:00	671.7
5/24/2021 7:00	5/24/2021 8:00	766.7
5/24/2021 8:00	5/24/2021 9:00	830.8
5/24/2021 9:00	5/24/2021 10:00	926.1
5/24/2021 10:00	5/24/2021 11:00	945.4
5/24/2021 11:00	5/24/2021 12:00	943.8
5/24/2021 12:00	5/24/2021 13:00	924.2
5/24/2021 13:00	5/24/2021 14:00	852.3
5/24/2021 14:00	5/24/2021 15:00	824.1
5/24/2021 15:00	5/24/2021 16:00	850.1
5/24/2021 16:00	5/24/2021 17:00	950.5
5/24/2021 17:00	5/24/2021 18:00	1011.0
5/24/2021 18:00	5/24/2021 19:00	995.4
5/24/2021 19:00	5/24/2021 20:00	992.8
5/24/2021 20:00	5/24/2021 21:00	982.5
5/24/2021 21:00	5/24/2021 22:00	929.7
5/24/2021 22:00	5/24/2021 23:00	847.8
5/24/2021 23:00	5/25/2021 0:00	735.7
5/25/2021 0:00	5/25/2021 1:00	659.5

Start Time	End Time	ANL_MW
5/25/2021 1:00	5/25/2021 2:00	580.2
5/25/2021 2:00	5/25/2021 3:00	563.2
5/25/2021 3:00	5/25/2021 4:00	555.3
5/25/2021 4:00	5/25/2021 5:00	558.3
5/25/2021 5:00	5/25/2021 6:00	612.1
5/25/2021 6:00	5/25/2021 7:00	689.4
5/25/2021 7:00	5/25/2021 8:00	776.1
5/25/2021 8:00	5/25/2021 9:00	814.2
5/25/2021 9:00	5/25/2021 10:00	803.5
5/25/2021 10:00	5/25/2021 11:00	806.6
5/25/2021 11:00	5/25/2021 12:00	805.5
5/25/2021 12:00	5/25/2021 13:00	706.3
5/25/2021 13:00	5/25/2021 14:00	693.6
5/25/2021 14:00	5/25/2021 15:00	704.3
5/25/2021 15:00	5/25/2021 16:00	688.7
5/25/2021 16:00	5/25/2021 17:00	735.0
5/25/2021 17:00	5/25/2021 18:00	780.5
5/25/2021 18:00	5/25/2021 19:00	745.2
5/25/2021 19:00	5/25/2021 20:00	734.2
5/25/2021 20:00	5/25/2021 21:00	728.6
5/25/2021 21:00	5/25/2021 22:00	718.7
5/25/2021 22:00	5/25/2021 23:00	629.1
5/25/2021 23:00	5/26/2021 0:00	466.5
5/26/2021 0:00	5/26/2021 1:00	400.1
5/26/2021 1:00	5/26/2021 2:00	355.1
5/26/2021 2:00	5/26/2021 3:00	365.9
5/26/2021 3:00	5/26/2021 4:00	374.7
5/26/2021 4:00	5/26/2021 5:00	432.2
5/26/2021 5:00	5/26/2021 6:00	482.5
5/26/2021 6:00	5/26/2021 7:00	593.2
5/26/2021 7:00	5/26/2021 8:00	731.9
5/26/2021 8:00	5/26/2021 9:00	828.7
5/26/2021 9:00	5/26/2021 10:00	878.4
5/26/2021 10:00	5/26/2021 11:00	870.9
5/26/2021 11:00	5/26/2021 12:00	862.2
5/26/2021 12:00	5/26/2021 13:00	844.2
5/26/2021 13:00	5/26/2021 14:00	775.4
5/26/2021 14:00	5/26/2021 15:00	709.8
5/26/2021 15:00	5/26/2021 16:00	685.8
5/26/2021 16:00	5/26/2021 17:00	711.7
5/26/2021 17:00	5/26/2021 18:00	720.5
5/26/2021 18:00	5/26/2021 19:00	675.4
5/26/2021 19:00	5/26/2021 20:00	620.3
5/26/2021 20:00	5/26/2021 21:00	574.0
5/26/2021 21:00	5/26/2021 22:00	560.8
5/26/2021 22:00	5/26/2021 23:00	543.9
5/26/2021 23:00	5/27/2021 0:00	494.6
5/27/2021 0:00	5/27/2021 1:00	399.1
5/27/2021 1:00	5/27/2021 2:00	417.8
5/27/2021 2:00	5/27/2021 3:00	423.4
5/27/2021 3:00	5/27/2021 4:00	450.3
5/27/2021 4:00	5/27/2021 5:00	452.0
5/27/2021 5:00	5/27/2021 6:00	438.0
5/27/2021 6:00	5/27/2021 7:00	564.2
5/27/2021 7:00	5/27/2021 8:00	709.4
5/27/2021 8:00	5/27/2021 9:00	847.5
5/27/2021 9:00	5/27/2021 10:00	906.9
5/27/2021 10:00	5/27/2021 11:00	980.4
5/27/2021 11:00	5/27/2021 12:00	1097.1
5/27/2021 12:00	5/27/2021 13:00	1110.5
5/27/2021 13:00	5/27/2021 14:00	993.4
5/27/2021 14:00	5/27/2021 15:00	1010.0
5/27/2021 15:00	5/27/2021 16:00	1069.9
5/27/2021 16:00	5/27/2021 17:00	1056.3
5/27/2021 17:00	5/27/2021 18:00	1052.1
5/27/2021 18:00	5/27/2021 19:00	990.2
5/27/2021 19:00	5/27/2021 20:00	928.6
5/27/2021 20:00	5/27/2021 21:00	944.5
5/27/2021 21:00	5/27/2021 22:00	937.5
5/27/2021 22:00	5/27/2021 23:00	852.3

Start Time	End Time	ANL_MW
5/27/2021 23:00	5/28/2021 0:00	756.0
5/28/2021 0:00	5/28/2021 1:00	686.1
5/28/2021 1:00	5/28/2021 2:00	710.9
5/28/2021 2:00	5/28/2021 3:00	706.2
5/28/2021 3:00	5/28/2021 4:00	702.5
5/28/2021 4:00	5/28/2021 5:00	773.9
5/28/2021 5:00	5/28/2021 6:00	836.9
5/28/2021 6:00	5/28/2021 7:00	911.7
5/28/2021 7:00	5/28/2021 8:00	1018.4
5/28/2021 8:00	5/28/2021 9:00	1047.3
5/28/2021 9:00	5/28/2021 10:00	1042.8
5/28/2021 10:00	5/28/2021 11:00	951.4
5/28/2021 11:00	5/28/2021 12:00	933.5
5/28/2021 12:00	5/28/2021 13:00	908.2
5/28/2021 13:00	5/28/2021 14:00	908.1
5/28/2021 14:00	5/28/2021 15:00	878.7
5/28/2021 15:00	5/28/2021 16:00	846.8
5/28/2021 16:00	5/28/2021 17:00	907.5
5/28/2021 17:00	5/28/2021 18:00	961.8
5/28/2021 18:00	5/28/2021 19:00	963.8
5/28/2021 19:00	5/28/2021 20:00	990.8
5/28/2021 20:00	5/28/2021 21:00	1006.2
5/28/2021 21:00	5/28/2021 22:00	1013.9
5/28/2021 22:00	5/28/2021 23:00	958.6
5/28/2021 23:00	5/29/2021 0:00	989.7
5/29/2021 0:00	5/29/2021 1:00	960.3
5/29/2021 1:00	5/29/2021 2:00	932.0
5/29/2021 2:00	5/29/2021 3:00	929.6
5/29/2021 3:00	5/29/2021 4:00	934.6
5/29/2021 4:00	5/29/2021 5:00	936.9
5/29/2021 5:00	5/29/2021 6:00	953.3
5/29/2021 6:00	5/29/2021 7:00	923.8
5/29/2021 7:00	5/29/2021 8:00	987.0
5/29/2021 8:00	5/29/2021 9:00	1010.4
5/29/2021 9:00	5/29/2021 10:00	1058.5
5/29/2021 10:00	5/29/2021 11:00	1073.3
5/29/2021 11:00	5/29/2021 12:00	1101.0
5/29/2021 12:00	5/29/2021 13:00	1115.8
5/29/2021 13:00	5/29/2021 14:00	1098.3
5/29/2021 14:00	5/29/2021 15:00	1071.5
5/29/2021 15:00	5/29/2021 16:00	1077.2
5/29/2021 16:00	5/29/2021 17:00	1109.7
5/29/2021 17:00	5/29/2021 18:00	1112.2
5/29/2021 18:00	5/29/2021 19:00	1084.2
5/29/2021 19:00	5/29/2021 20:00	1061.0
5/29/2021 20:00	5/29/2021 21:00	1035.8
5/29/2021 21:00	5/29/2021 22:00	1024.3
5/29/2021 22:00	5/29/2021 23:00	960.6
5/29/2021 23:00	5/30/2021 0:00	934.5
5/30/2021 0:00	5/30/2021 1:00	928.7
5/30/2021 1:00	5/30/2021 2:00	850.0
5/30/2021 2:00	5/30/2021 3:00	838.1
5/30/2021 3:00	5/30/2021 4:00	854.0
5/30/2021 4:00	5/30/2021 5:00	881.7
5/30/2021 5:00	5/30/2021 6:00	889.7
5/30/2021 6:00	5/30/2021 7:00	893.3
5/30/2021 7:00	5/30/2021 8:00	932.8
5/30/2021 8:00	5/30/2021 9:00	1008.8
5/30/2021 9:00	5/30/2021 10:00	997.6
5/30/2021 10:00	5/30/2021 11:00	1027.7
5/30/2021 11:00	5/30/2021 12:00	1059.3
5/30/2021 12:00	5/30/2021 13:00	1069.4
5/30/2021 13:00	5/30/2021 14:00	1068.3
5/30/2021 14:00	5/30/2021 15:00	1044.5
5/30/2021 15:00	5/30/2021 16:00	1024.4
5/30/2021 16:00	5/30/2021 17:00	1068.9
5/30/2021 17:00	5/30/2021 18:00	1089.4
5/30/2021 18:00	5/30/2021 19:00	1043.0
5/30/2021 19:00	5/30/2021 20:00	990.7
5/30/2021 20:00	5/30/2021 21:00	989.1

Start Time	End Time	ANL_MW
5/30/2021 21:00	5/30/2021 22:00	959.3
5/30/2021 22:00	5/30/2021 23:00	835.3
5/30/2021 23:00	5/31/2021 0:00	719.5
5/31/2021 0:00	5/31/2021 1:00	665.2
5/31/2021 1:00	5/31/2021 2:00	639.3
5/31/2021 2:00	5/31/2021 3:00	655.5
5/31/2021 3:00	5/31/2021 4:00	664.8
5/31/2021 4:00	5/31/2021 5:00	684.9
5/31/2021 5:00	5/31/2021 6:00	724.9
5/31/2021 6:00	5/31/2021 7:00	816.3
5/31/2021 7:00	5/31/2021 8:00	942.3
5/31/2021 8:00	5/31/2021 9:00	1025.0
5/31/2021 9:00	5/31/2021 10:00	1050.4
5/31/2021 10:00	5/31/2021 11:00	1079.8
5/31/2021 11:00	5/31/2021 12:00	1105.3
5/31/2021 12:00	5/31/2021 13:00	1063.1
5/31/2021 13:00	5/31/2021 14:00	999.3
5/31/2021 14:00	5/31/2021 15:00	961.0
5/31/2021 15:00	5/31/2021 16:00	960.0
5/31/2021 16:00	5/31/2021 17:00	993.1
5/31/2021 17:00	5/31/2021 18:00	1004.0
5/31/2021 18:00	5/31/2021 19:00	958.2
5/31/2021 19:00	5/31/2021 20:00	960.3
5/31/2021 20:00	5/31/2021 21:00	963.9
5/31/2021 21:00	5/31/2021 22:00	931.9
5/31/2021 22:00	5/31/2021 23:00	832.8
5/31/2021 23:00	6/1/2021 0:00	809.4
6/1/2021 0:00	6/1/2021 1:00	726.7
6/1/2021 1:00	6/1/2021 2:00	629.8
6/1/2021 2:00	6/1/2021 3:00	645.9
6/1/2021 3:00	6/1/2021 4:00	646.8
6/1/2021 4:00	6/1/2021 5:00	598.1
6/1/2021 5:00	6/1/2021 6:00	661.6
6/1/2021 6:00	6/1/2021 7:00	764.6
6/1/2021 7:00	6/1/2021 8:00	856.2
6/1/2021 8:00	6/1/2021 9:00	929.7
6/1/2021 9:00	6/1/2021 10:00	1035.8
6/1/2021 10:00	6/1/2021 11:00	1093.6
6/1/2021 11:00	6/1/2021 12:00	1116.3
6/1/2021 12:00	6/1/2021 13:00	1068.8
6/1/2021 13:00	6/1/2021 14:00	1032.9
6/1/2021 14:00	6/1/2021 15:00	1010.9
6/1/2021 15:00	6/1/2021 16:00	1001.1
6/1/2021 16:00	6/1/2021 17:00	1018.1
6/1/2021 17:00	6/1/2021 18:00	1033.7
6/1/2021 18:00	6/1/2021 19:00	1002.4
6/1/2021 19:00	6/1/2021 20:00	970.5
6/1/2021 20:00	6/1/2021 21:00	890.4
6/1/2021 21:00	6/1/2021 22:00	800.0
6/1/2021 22:00	6/1/2021 23:00	759.9
6/1/2021 23:00	6/2/2021 0:00	657.6
6/2/2021 0:00	6/2/2021 1:00	608.7
6/2/2021 1:00	6/2/2021 2:00	592.9
6/2/2021 2:00	6/2/2021 3:00	597.5
6/2/2021 3:00	6/2/2021 4:00	595.9
6/2/2021 4:00	6/2/2021 5:00	628.4
6/2/2021 5:00	6/2/2021 6:00	647.5
6/2/2021 6:00	6/2/2021 7:00	727.0
6/2/2021 7:00	6/2/2021 8:00	886.2
6/2/2021 8:00	6/2/2021 9:00	1027.9
6/2/2021 9:00	6/2/2021 10:00	1060.3
6/2/2021 10:00	6/2/2021 11:00	1003.3
6/2/2021 11:00	6/2/2021 12:00	971.4
6/2/2021 12:00	6/2/2021 13:00	979.1
6/2/2021 13:00	6/2/2021 14:00	955.2
6/2/2021 14:00	6/2/2021 15:00	911.7
6/2/2021 15:00	6/2/2021 16:00	926.6
6/2/2021 16:00	6/2/2021 17:00	983.7
6/2/2021 17:00	6/2/2021 18:00	1004.1
6/2/2021 18:00	6/2/2021 19:00	988.5

Start Time	End Time	ANL_MW
6/2/2021 19:00	6/2/2021 20:00	990.1
6/2/2021 20:00	6/2/2021 21:00	955.8
6/2/2021 21:00	6/2/2021 22:00	884.5
6/2/2021 22:00	6/2/2021 23:00	756.5
6/2/2021 23:00	6/3/2021 0:00	692.1
6/3/2021 0:00	6/3/2021 1:00	588.2
6/3/2021 1:00	6/3/2021 2:00	534.3
6/3/2021 2:00	6/3/2021 3:00	505.2
6/3/2021 3:00	6/3/2021 4:00	500.5
6/3/2021 4:00	6/3/2021 5:00	493.2
6/3/2021 5:00	6/3/2021 6:00	575.5
6/3/2021 6:00	6/3/2021 7:00	714.0
6/3/2021 7:00	6/3/2021 8:00	860.5
6/3/2021 8:00	6/3/2021 9:00	928.2
6/3/2021 9:00	6/3/2021 10:00	940.0
6/3/2021 10:00	6/3/2021 11:00	923.9
6/3/2021 11:00	6/3/2021 12:00	899.4
6/3/2021 12:00	6/3/2021 13:00	853.4
6/3/2021 13:00	6/3/2021 14:00	829.8
6/3/2021 14:00	6/3/2021 15:00	778.1
6/3/2021 15:00	6/3/2021 16:00	706.2
6/3/2021 16:00	6/3/2021 17:00	682.7
6/3/2021 17:00	6/3/2021 18:00	679.9
6/3/2021 18:00	6/3/2021 19:00	650.8
6/3/2021 19:00	6/3/2021 20:00	659.3
6/3/2021 20:00	6/3/2021 21:00	652.9
6/3/2021 21:00	6/3/2021 22:00	639.1
6/3/2021 22:00	6/3/2021 23:00	559.6
6/3/2021 23:00	6/4/2021 0:00	527.0
6/4/2021 0:00	6/4/2021 1:00	474.1
6/4/2021 1:00	6/4/2021 2:00	459.1
6/4/2021 2:00	6/4/2021 3:00	403.6
6/4/2021 3:00	6/4/2021 4:00	423.9
6/4/2021 4:00	6/4/2021 5:00	450.1
6/4/2021 5:00	6/4/2021 6:00	518.8
6/4/2021 6:00	6/4/2021 7:00	657.5
6/4/2021 7:00	6/4/2021 8:00	774.0
6/4/2021 8:00	6/4/2021 9:00	811.2
6/4/2021 9:00	6/4/2021 10:00	840.2
6/4/2021 10:00	6/4/2021 11:00	860.8
6/4/2021 11:00	6/4/2021 12:00	890.7
6/4/2021 12:00	6/4/2021 13:00	849.8
6/4/2021 13:00	6/4/2021 14:00	855.3
6/4/2021 14:00	6/4/2021 15:00	856.1
6/4/2021 15:00	6/4/2021 16:00	889.4
6/4/2021 16:00	6/4/2021 17:00	902.4
6/4/2021 17:00	6/4/2021 18:00	912.0
6/4/2021 18:00	6/4/2021 19:00	935.4
6/4/2021 19:00	6/4/2021 20:00	933.3
6/4/2021 20:00	6/4/2021 21:00	902.2
6/4/2021 21:00	6/4/2021 22:00	883.9
6/4/2021 22:00	6/4/2021 23:00	843.7
6/4/2021 23:00	6/5/2021 0:00	809.7
6/5/2021 0:00	6/5/2021 1:00	756.2
6/5/2021 1:00	6/5/2021 2:00	718.8
6/5/2021 2:00	6/5/2021 3:00	721.9
6/5/2021 3:00	6/5/2021 4:00	717.6
6/5/2021 4:00	6/5/2021 5:00	692.1
6/5/2021 5:00	6/5/2021 6:00	716.0
6/5/2021 6:00	6/5/2021 7:00	751.9
6/5/2021 7:00	6/5/2021 8:00	852.7
6/5/2021 8:00	6/5/2021 9:00	952.7
6/5/2021 9:00	6/5/2021 10:00	982.8
6/5/2021 10:00	6/5/2021 11:00	997.4
6/5/2021 11:00	6/5/2021 12:00	987.0
6/5/2021 12:00	6/5/2021 13:00	950.3
6/5/2021 13:00	6/5/2021 14:00	851.3
6/5/2021 14:00	6/5/2021 15:00	754.1
6/5/2021 15:00	6/5/2021 16:00	740.8
6/5/2021 16:00	6/5/2021 17:00	752.3

Start Time	End Time	ANL_MW
6/5/2021 17:00	6/5/2021 18:00	792.9
6/5/2021 18:00	6/5/2021 19:00	813.5
6/5/2021 19:00	6/5/2021 20:00	775.4
6/5/2021 20:00	6/5/2021 21:00	726.1
6/5/2021 21:00	6/5/2021 22:00	713.6
6/5/2021 22:00	6/5/2021 23:00	674.8
6/5/2021 23:00	6/6/2021 0:00	566.7
6/6/2021 0:00	6/6/2021 1:00	532.5
6/6/2021 1:00	6/6/2021 2:00	532.5
6/6/2021 2:00	6/6/2021 3:00	577.9
6/6/2021 3:00	6/6/2021 4:00	659.3
6/6/2021 4:00	6/6/2021 5:00	707.8
6/6/2021 5:00	6/6/2021 6:00	687.3
6/6/2021 6:00	6/6/2021 7:00	674.1
6/6/2021 7:00	6/6/2021 8:00	718.2
6/6/2021 8:00	6/6/2021 9:00	859.1
6/6/2021 9:00	6/6/2021 10:00	962.6
6/6/2021 10:00	6/6/2021 11:00	1012.9
6/6/2021 11:00	6/6/2021 12:00	1013.9
6/6/2021 12:00	6/6/2021 13:00	1025.8
6/6/2021 13:00	6/6/2021 14:00	1010.4
6/6/2021 14:00	6/6/2021 15:00	984.1
6/6/2021 15:00	6/6/2021 16:00	1011.2
6/6/2021 16:00	6/6/2021 17:00	1067.4
6/6/2021 17:00	6/6/2021 18:00	1114.3
6/6/2021 18:00	6/6/2021 19:00	1119.2
6/6/2021 19:00	6/6/2021 20:00	1120.1
6/6/2021 20:00	6/6/2021 21:00	1101.7
6/6/2021 21:00	6/6/2021 22:00	1076.0
6/6/2021 22:00	6/6/2021 23:00	999.6
6/6/2021 23:00	6/7/2021 0:00	849.8
6/7/2021 0:00	6/7/2021 1:00	750.9
6/7/2021 1:00	6/7/2021 2:00	675.4
6/7/2021 2:00	6/7/2021 3:00	637.0
6/7/2021 3:00	6/7/2021 4:00	615.2
6/7/2021 4:00	6/7/2021 5:00	616.1
6/7/2021 5:00	6/7/2021 6:00	644.5
6/7/2021 6:00	6/7/2021 7:00	738.3
6/7/2021 7:00	6/7/2021 8:00	828.6
6/7/2021 8:00	6/7/2021 9:00	950.8
6/7/2021 9:00	6/7/2021 10:00	1011.6
6/7/2021 10:00	6/7/2021 11:00	1048.7
6/7/2021 11:00	6/7/2021 12:00	1061.6
6/7/2021 12:00	6/7/2021 13:00	1000.1
6/7/2021 13:00	6/7/2021 14:00	916.6
6/7/2021 14:00	6/7/2021 15:00	851.1
6/7/2021 15:00	6/7/2021 16:00	837.4
6/7/2021 16:00	6/7/2021 17:00	860.0
6/7/2021 17:00	6/7/2021 18:00	865.6
6/7/2021 18:00	6/7/2021 19:00	835.8
6/7/2021 19:00	6/7/2021 20:00	810.5
6/7/2021 20:00	6/7/2021 21:00	742.9
6/7/2021 21:00	6/7/2021 22:00	735.3
6/7/2021 22:00	6/7/2021 23:00	698.4
6/7/2021 23:00	6/8/2021 0:00	656.8
6/8/2021 0:00	6/8/2021 1:00	572.2
6/8/2021 1:00	6/8/2021 2:00	543.4
6/8/2021 2:00	6/8/2021 3:00	566.5
6/8/2021 3:00	6/8/2021 4:00	590.5
6/8/2021 4:00	6/8/2021 5:00	605.1
6/8/2021 5:00	6/8/2021 6:00	567.4
6/8/2021 6:00	6/8/2021 7:00	626.0
6/8/2021 7:00	6/8/2021 8:00	756.0
6/8/2021 8:00	6/8/2021 9:00	893.9
6/8/2021 9:00	6/8/2021 10:00	972.1
6/8/2021 10:00	6/8/2021 11:00	1031.5
6/8/2021 11:00	6/8/2021 12:00	1055.4
6/8/2021 12:00	6/8/2021 13:00	1007.1
6/8/2021 13:00	6/8/2021 14:00	988.9
6/8/2021 14:00	6/8/2021 15:00	956.9

Start Time	End Time	ANL_MW
6/8/2021 15:00	6/8/2021 16:00	964.0
6/8/2021 16:00	6/8/2021 17:00	991.5
6/8/2021 17:00	6/8/2021 18:00	1047.4
6/8/2021 18:00	6/8/2021 19:00	1085.4
6/8/2021 19:00	6/8/2021 20:00	1037.4
6/8/2021 20:00	6/8/2021 21:00	1000.7
6/8/2021 21:00	6/8/2021 22:00	984.3
6/8/2021 22:00	6/8/2021 23:00	895.8
6/8/2021 23:00	6/9/2021 0:00	809.0
6/9/2021 0:00	6/9/2021 1:00	749.4
6/9/2021 1:00	6/9/2021 2:00	723.6
6/9/2021 2:00	6/9/2021 3:00	704.9
6/9/2021 3:00	6/9/2021 4:00	703.2
6/9/2021 4:00	6/9/2021 5:00	725.1
6/9/2021 5:00	6/9/2021 6:00	761.3
6/9/2021 6:00	6/9/2021 7:00	774.0
6/9/2021 7:00	6/9/2021 8:00	877.2
6/9/2021 8:00	6/9/2021 9:00	911.1
6/9/2021 9:00	6/9/2021 10:00	955.8
6/9/2021 10:00	6/9/2021 11:00	1043.6
6/9/2021 11:00	6/9/2021 12:00	1133.6
6/9/2021 12:00	6/9/2021 13:00	1153.5
6/9/2021 13:00	6/9/2021 14:00	1138.8
6/9/2021 14:00	6/9/2021 15:00	1113.2
6/9/2021 15:00	6/9/2021 16:00	1083.0
6/9/2021 16:00	6/9/2021 17:00	1098.6
6/9/2021 17:00	6/9/2021 18:00	1160.6
6/9/2021 18:00	6/9/2021 19:00	1109.2
6/9/2021 19:00	6/9/2021 20:00	1096.0
6/9/2021 20:00	6/9/2021 21:00	1023.1
6/9/2021 21:00	6/9/2021 22:00	963.9
6/9/2021 22:00	6/9/2021 23:00	846.4
6/9/2021 23:00	6/10/2021 0:00	814.0
6/10/2021 0:00	6/10/2021 1:00	810.3
6/10/2021 1:00	6/10/2021 2:00	796.0
6/10/2021 2:00	6/10/2021 3:00	798.2
6/10/2021 3:00	6/10/2021 4:00	790.2
6/10/2021 4:00	6/10/2021 5:00	752.3
6/10/2021 5:00	6/10/2021 6:00	668.0
6/10/2021 6:00	6/10/2021 7:00	618.4
6/10/2021 7:00	6/10/2021 8:00	733.4
6/10/2021 8:00	6/10/2021 9:00	739.2
6/10/2021 9:00	6/10/2021 10:00	724.2
6/10/2021 10:00	6/10/2021 11:00	678.1
6/10/2021 11:00	6/10/2021 12:00	683.7
6/10/2021 12:00	6/10/2021 13:00	684.0
6/10/2021 13:00	6/10/2021 14:00	676.9
6/10/2021 14:00	6/10/2021 15:00	632.5
6/10/2021 15:00	6/10/2021 16:00	624.4
6/10/2021 16:00	6/10/2021 17:00	632.8
6/10/2021 17:00	6/10/2021 18:00	681.4
6/10/2021 18:00	6/10/2021 19:00	690.4
6/10/2021 19:00	6/10/2021 20:00	752.0
6/10/2021 20:00	6/10/2021 21:00	855.1
6/10/2021 21:00	6/10/2021 22:00	876.6
6/10/2021 22:00	6/10/2021 23:00	903.8
6/10/2021 23:00	6/11/2021 0:00	908.3
6/11/2021 0:00	6/11/2021 1:00	867.8
6/11/2021 1:00	6/11/2021 2:00	851.1
6/11/2021 2:00	6/11/2021 3:00	867.4
6/11/2021 3:00	6/11/2021 4:00	873.8
6/11/2021 4:00	6/11/2021 5:00	877.0
6/11/2021 5:00	6/11/2021 6:00	912.9
6/11/2021 6:00	6/11/2021 7:00	935.3
6/11/2021 7:00	6/11/2021 8:00	1039.2
6/11/2021 8:00	6/11/2021 9:00	1086.3
6/11/2021 9:00	6/11/2021 10:00	1089.2
6/11/2021 10:00	6/11/2021 11:00	1058.4
6/11/2021 11:00	6/11/2021 12:00	1009.8
6/11/2021 12:00	6/11/2021 13:00	990.9

Start Time	End Time	ANL_MW
6/11/2021 13:00	6/11/2021 14:00	977.3
6/11/2021 14:00	6/11/2021 15:00	913.0
6/11/2021 15:00	6/11/2021 16:00	897.6
6/11/2021 16:00	6/11/2021 17:00	911.6
6/11/2021 17:00	6/11/2021 18:00	946.3
6/11/2021 18:00	6/11/2021 19:00	918.4
6/11/2021 19:00	6/11/2021 20:00	946.3
6/11/2021 20:00	6/11/2021 21:00	876.2
6/11/2021 21:00	6/11/2021 22:00	806.1
6/11/2021 22:00	6/11/2021 23:00	776.2
6/11/2021 23:00	6/12/2021 0:00	762.4
6/12/2021 0:00	6/12/2021 1:00	718.0
6/12/2021 1:00	6/12/2021 2:00	686.5
6/12/2021 2:00	6/12/2021 3:00	601.9
6/12/2021 3:00	6/12/2021 4:00	542.6
6/12/2021 4:00	6/12/2021 5:00	559.8
6/12/2021 5:00	6/12/2021 6:00	591.6
6/12/2021 6:00	6/12/2021 7:00	745.0
6/12/2021 7:00	6/12/2021 8:00	845.5
6/12/2021 8:00	6/12/2021 9:00	907.7
6/12/2021 9:00	6/12/2021 10:00	937.2
6/12/2021 10:00	6/12/2021 11:00	964.1
6/12/2021 11:00	6/12/2021 12:00	977.8
6/12/2021 12:00	6/12/2021 13:00	963.5
6/12/2021 13:00	6/12/2021 14:00	940.8
6/12/2021 14:00	6/12/2021 15:00	909.7
6/12/2021 15:00	6/12/2021 16:00	897.0
6/12/2021 16:00	6/12/2021 17:00	919.1
6/12/2021 17:00	6/12/2021 18:00	958.5
6/12/2021 18:00	6/12/2021 19:00	950.8
6/12/2021 19:00	6/12/2021 20:00	977.9
6/12/2021 20:00	6/12/2021 21:00	917.8
6/12/2021 21:00	6/12/2021 22:00	819.6
6/12/2021 22:00	6/12/2021 23:00	694.2
6/12/2021 23:00	6/13/2021 0:00	620.9
6/13/2021 0:00	6/13/2021 1:00	618.2
6/13/2021 1:00	6/13/2021 2:00	587.3
6/13/2021 2:00	6/13/2021 3:00	578.2
6/13/2021 3:00	6/13/2021 4:00	595.4
6/13/2021 4:00	6/13/2021 5:00	619.9
6/13/2021 5:00	6/13/2021 6:00	686.5
6/13/2021 6:00	6/13/2021 7:00	776.7
6/13/2021 7:00	6/13/2021 8:00	853.5
6/13/2021 8:00	6/13/2021 9:00	930.9
6/13/2021 9:00	6/13/2021 10:00	1006.2
6/13/2021 10:00	6/13/2021 11:00	1043.6
6/13/2021 11:00	6/13/2021 12:00	1049.7
6/13/2021 12:00	6/13/2021 13:00	1026.5
6/13/2021 13:00	6/13/2021 14:00	975.2
6/13/2021 14:00	6/13/2021 15:00	937.6
6/13/2021 15:00	6/13/2021 16:00	927.8
6/13/2021 16:00	6/13/2021 17:00	969.5
6/13/2021 17:00	6/13/2021 18:00	1021.1
6/13/2021 18:00	6/13/2021 19:00	1035.3
6/13/2021 19:00	6/13/2021 20:00	1045.7
6/13/2021 20:00	6/13/2021 21:00	1034.7
6/13/2021 21:00	6/13/2021 22:00	1010.1
6/13/2021 22:00	6/13/2021 23:00	919.1
6/13/2021 23:00	6/14/2021 0:00	828.6
6/14/2021 0:00	6/14/2021 1:00	770.5
6/14/2021 1:00	6/14/2021 2:00	798.3
6/14/2021 2:00	6/14/2021 3:00	771.6
6/14/2021 3:00	6/14/2021 4:00	752.9
6/14/2021 4:00	6/14/2021 5:00	733.1
6/14/2021 5:00	6/14/2021 6:00	754.3
6/14/2021 6:00	6/14/2021 7:00	791.5
6/14/2021 7:00	6/14/2021 8:00	873.0
6/14/2021 8:00	6/14/2021 9:00	980.5
6/14/2021 9:00	6/14/2021 10:00	1028.2
6/14/2021 10:00	6/14/2021 11:00	1040.7

Start Time	End Time	ANL_MW
6/14/2021 11:00	6/14/2021 12:00	1036.9
6/14/2021 12:00	6/14/2021 13:00	1019.7
6/14/2021 13:00	6/14/2021 14:00	994.9
6/14/2021 14:00	6/14/2021 15:00	943.7
6/14/2021 15:00	6/14/2021 16:00	918.2
6/14/2021 16:00	6/14/2021 17:00	919.1
6/14/2021 17:00	6/14/2021 18:00	924.2
6/14/2021 18:00	6/14/2021 19:00	877.2
6/14/2021 19:00	6/14/2021 20:00	863.0
6/14/2021 20:00	6/14/2021 21:00	921.7
6/14/2021 21:00	6/14/2021 22:00	931.3
6/14/2021 22:00	6/14/2021 23:00	860.7
6/14/2021 23:00	6/15/2021 0:00	781.5
6/15/2021 0:00	6/15/2021 1:00	702.9
6/15/2021 1:00	6/15/2021 2:00	644.0
6/15/2021 2:00	6/15/2021 3:00	625.0
6/15/2021 3:00	6/15/2021 4:00	624.7
6/15/2021 4:00	6/15/2021 5:00	609.9
6/15/2021 5:00	6/15/2021 6:00	595.8
6/15/2021 6:00	6/15/2021 7:00	683.3
6/15/2021 7:00	6/15/2021 8:00	801.1
6/15/2021 8:00	6/15/2021 9:00	845.5
6/15/2021 9:00	6/15/2021 10:00	866.4
6/15/2021 10:00	6/15/2021 11:00	846.4
6/15/2021 11:00	6/15/2021 12:00	853.0
6/15/2021 12:00	6/15/2021 13:00	869.2
6/15/2021 13:00	6/15/2021 14:00	873.8
6/15/2021 14:00	6/15/2021 15:00	888.5
6/15/2021 15:00	6/15/2021 16:00	884.6
6/15/2021 16:00	6/15/2021 17:00	837.6
6/15/2021 17:00	6/15/2021 18:00	894.3
6/15/2021 18:00	6/15/2021 19:00	896.4
6/15/2021 19:00	6/15/2021 20:00	830.5
6/15/2021 20:00	6/15/2021 21:00	798.9
6/15/2021 21:00	6/15/2021 22:00	784.8
6/15/2021 22:00	6/15/2021 23:00	707.8
6/15/2021 23:00	6/16/2021 0:00	703.1
6/16/2021 0:00	6/16/2021 1:00	670.4
6/16/2021 1:00	6/16/2021 2:00	661.1
6/16/2021 2:00	6/16/2021 3:00	700.4
6/16/2021 3:00	6/16/2021 4:00	702.7
6/16/2021 4:00	6/16/2021 5:00	724.2
6/16/2021 5:00	6/16/2021 6:00	770.3
6/16/2021 6:00	6/16/2021 7:00	807.4
6/16/2021 7:00	6/16/2021 8:00	945.7
6/16/2021 8:00	6/16/2021 9:00	1001.3
6/16/2021 9:00	6/16/2021 10:00	1013.0
6/16/2021 10:00	6/16/2021 11:00	1039.4
6/16/2021 11:00	6/16/2021 12:00	1049.1
6/16/2021 12:00	6/16/2021 13:00	1057.1
6/16/2021 13:00	6/16/2021 14:00	1052.4
6/16/2021 14:00	6/16/2021 15:00	1026.9
6/16/2021 15:00	6/16/2021 16:00	1021.9
6/16/2021 16:00	6/16/2021 17:00	1005.6
6/16/2021 17:00	6/16/2021 18:00	997.5
6/16/2021 18:00	6/16/2021 19:00	946.1
6/16/2021 19:00	6/16/2021 20:00	941.1
6/16/2021 20:00	6/16/2021 21:00	944.2
6/16/2021 21:00	6/16/2021 22:00	936.5
6/16/2021 22:00	6/16/2021 23:00	860.4
6/16/2021 23:00	6/17/2021 0:00	733.9
6/17/2021 0:00	6/17/2021 1:00	647.5
6/17/2021 1:00	6/17/2021 2:00	660.8
6/17/2021 2:00	6/17/2021 3:00	671.0
6/17/2021 3:00	6/17/2021 4:00	662.3
6/17/2021 4:00	6/17/2021 5:00	704.5
6/17/2021 5:00	6/17/2021 6:00	702.6
6/17/2021 6:00	6/17/2021 7:00	795.0
6/17/2021 7:00	6/17/2021 8:00	922.7
6/17/2021 8:00	6/17/2021 9:00	950.0

Start Time	End Time	ANL_MW
6/17/2021 9:00	6/17/2021 10:00	906.5
6/17/2021 10:00	6/17/2021 11:00	798.7
6/17/2021 11:00	6/17/2021 12:00	794.2
6/17/2021 12:00	6/17/2021 13:00	783.8
6/17/2021 13:00	6/17/2021 14:00	766.6
6/17/2021 14:00	6/17/2021 15:00	773.9
6/17/2021 15:00	6/17/2021 16:00	816.9
6/17/2021 16:00	6/17/2021 17:00	862.7
6/17/2021 17:00	6/17/2021 18:00	880.2
6/17/2021 18:00	6/17/2021 19:00	894.8
6/17/2021 19:00	6/17/2021 20:00	960.3
6/17/2021 20:00	6/17/2021 21:00	979.7
6/17/2021 21:00	6/17/2021 22:00	951.4
6/17/2021 22:00	6/17/2021 23:00	851.5
6/17/2021 23:00	6/18/2021 0:00	753.8
6/18/2021 0:00	6/18/2021 1:00	683.2
6/18/2021 1:00	6/18/2021 2:00	666.5
6/18/2021 2:00	6/18/2021 3:00	666.8
6/18/2021 3:00	6/18/2021 4:00	686.1
6/18/2021 4:00	6/18/2021 5:00	732.5
6/18/2021 5:00	6/18/2021 6:00	737.5
6/18/2021 6:00	6/18/2021 7:00	851.9
6/18/2021 7:00	6/18/2021 8:00	999.4
6/18/2021 8:00	6/18/2021 9:00	1080.6
6/18/2021 9:00	6/18/2021 10:00	1061.0
6/18/2021 10:00	6/18/2021 11:00	1054.6
6/18/2021 11:00	6/18/2021 12:00	1025.1
6/18/2021 12:00	6/18/2021 13:00	1009.3
6/18/2021 13:00	6/18/2021 14:00	1007.1
6/18/2021 14:00	6/18/2021 15:00	944.2
6/18/2021 15:00	6/18/2021 16:00	933.9
6/18/2021 16:00	6/18/2021 17:00	915.7
6/18/2021 17:00	6/18/2021 18:00	898.6
6/18/2021 18:00	6/18/2021 19:00	848.5
6/18/2021 19:00	6/18/2021 20:00	825.2
6/18/2021 20:00	6/18/2021 21:00	811.2
6/18/2021 21:00	6/18/2021 22:00	802.5
6/18/2021 22:00	6/18/2021 23:00	772.5
6/18/2021 23:00	6/19/2021 0:00	719.8
6/19/2021 0:00	6/19/2021 1:00	678.0
6/19/2021 1:00	6/19/2021 2:00	649.4
6/19/2021 2:00	6/19/2021 3:00	625.4
6/19/2021 3:00	6/19/2021 4:00	613.9
6/19/2021 4:00	6/19/2021 5:00	565.9
6/19/2021 5:00	6/19/2021 6:00	550.7
6/19/2021 6:00	6/19/2021 7:00	606.9
6/19/2021 7:00	6/19/2021 8:00	712.5
6/19/2021 8:00	6/19/2021 9:00	813.3
6/19/2021 9:00	6/19/2021 10:00	851.3
6/19/2021 10:00	6/19/2021 11:00	827.5
6/19/2021 11:00	6/19/2021 12:00	806.0
6/19/2021 12:00	6/19/2021 13:00	777.8
6/19/2021 13:00	6/19/2021 14:00	713.0
6/19/2021 14:00	6/19/2021 15:00	638.6
6/19/2021 15:00	6/19/2021 16:00	665.0
6/19/2021 16:00	6/19/2021 17:00	691.2
6/19/2021 17:00	6/19/2021 18:00	694.6
6/19/2021 18:00	6/19/2021 19:00	638.2
6/19/2021 19:00	6/19/2021 20:00	653.6
6/19/2021 20:00	6/19/2021 21:00	669.0
6/19/2021 21:00	6/19/2021 22:00	707.0
6/19/2021 22:00	6/19/2021 23:00	708.7
6/19/2021 23:00	6/20/2021 0:00	705.8
6/20/2021 0:00	6/20/2021 1:00	713.9
6/20/2021 1:00	6/20/2021 2:00	684.8
6/20/2021 2:00	6/20/2021 3:00	681.0
6/20/2021 3:00	6/20/2021 4:00	684.7
6/20/2021 4:00	6/20/2021 5:00	699.9
6/20/2021 5:00	6/20/2021 6:00	712.7
6/20/2021 6:00	6/20/2021 7:00	787.4

Start Time	End Time	ANL_MW
6/20/2021 7:00	6/20/2021 8:00	853.8
6/20/2021 8:00	6/20/2021 9:00	928.9
6/20/2021 9:00	6/20/2021 10:00	1023.7
6/20/2021 10:00	6/20/2021 11:00	1024.5
6/20/2021 11:00	6/20/2021 12:00	980.4
6/20/2021 12:00	6/20/2021 13:00	943.3
6/20/2021 13:00	6/20/2021 14:00	913.1
6/20/2021 14:00	6/20/2021 15:00	918.3
6/20/2021 15:00	6/20/2021 16:00	941.6
6/20/2021 16:00	6/20/2021 17:00	970.8
6/20/2021 17:00	6/20/2021 18:00	1000.0
6/20/2021 18:00	6/20/2021 19:00	1001.6
6/20/2021 19:00	6/20/2021 20:00	1001.8
6/20/2021 20:00	6/20/2021 21:00	998.0
6/20/2021 21:00	6/20/2021 22:00	976.6
6/20/2021 22:00	6/20/2021 23:00	944.0
6/20/2021 23:00	6/21/2021 0:00	832.8
6/21/2021 0:00	6/21/2021 1:00	732.2
6/21/2021 1:00	6/21/2021 2:00	681.8
6/21/2021 2:00	6/21/2021 3:00	672.5
6/21/2021 3:00	6/21/2021 4:00	709.8
6/21/2021 4:00	6/21/2021 5:00	750.6
6/21/2021 5:00	6/21/2021 6:00	804.2
6/21/2021 6:00	6/21/2021 7:00	869.8
6/21/2021 7:00	6/21/2021 8:00	1028.2
6/21/2021 8:00	6/21/2021 9:00	1135.0
6/21/2021 9:00	6/21/2021 10:00	1184.8
6/21/2021 10:00	6/21/2021 11:00	1217.8
6/21/2021 11:00	6/21/2021 12:00	1213.9
6/21/2021 12:00	6/21/2021 13:00	1196.4
6/21/2021 13:00	6/21/2021 14:00	1139.9
6/21/2021 14:00	6/21/2021 15:00	1076.4
6/21/2021 15:00	6/21/2021 16:00	1065.6
6/21/2021 16:00	6/21/2021 17:00	1063.6
6/21/2021 17:00	6/21/2021 18:00	1028.1
6/21/2021 18:00	6/21/2021 19:00	996.2
6/21/2021 19:00	6/21/2021 20:00	961.9
6/21/2021 20:00	6/21/2021 21:00	879.1
6/21/2021 21:00	6/21/2021 22:00	789.8
6/21/2021 22:00	6/21/2021 23:00	764.0
6/21/2021 23:00	6/22/2021 0:00	752.9
6/22/2021 0:00	6/22/2021 1:00	669.7
6/22/2021 1:00	6/22/2021 2:00	606.5
6/22/2021 2:00	6/22/2021 3:00	619.3
6/22/2021 3:00	6/22/2021 4:00	619.9
6/22/2021 4:00	6/22/2021 5:00	618.3
6/22/2021 5:00	6/22/2021 6:00	657.5
6/22/2021 6:00	6/22/2021 7:00	771.6
6/22/2021 7:00	6/22/2021 8:00	897.6
6/22/2021 8:00	6/22/2021 9:00	968.0
6/22/2021 9:00	6/22/2021 10:00	964.8
6/22/2021 10:00	6/22/2021 11:00	1049.1
6/22/2021 11:00	6/22/2021 12:00	1119.9
6/22/2021 12:00	6/22/2021 13:00	1155.9
6/22/2021 13:00	6/22/2021 14:00	1155.8
6/22/2021 14:00	6/22/2021 15:00	1175.0
6/22/2021 15:00	6/22/2021 16:00	1168.1
6/22/2021 16:00	6/22/2021 17:00	1195.0
6/22/2021 17:00	6/22/2021 18:00	1160.6
6/22/2021 18:00	6/22/2021 19:00	1123.1
6/22/2021 19:00	6/22/2021 20:00	1106.7
6/22/2021 20:00	6/22/2021 21:00	1044.3
6/22/2021 21:00	6/22/2021 22:00	987.5
6/22/2021 22:00	6/22/2021 23:00	930.3
6/22/2021 23:00	6/23/2021 0:00	875.8
6/23/2021 0:00	6/23/2021 1:00	765.3
6/23/2021 1:00	6/23/2021 2:00	713.0
6/23/2021 2:00	6/23/2021 3:00	680.3
6/23/2021 3:00	6/23/2021 4:00	675.3
6/23/2021 4:00	6/23/2021 5:00	651.4

Start Time	End Time	ANL_MW
6/23/2021 5:00	6/23/2021 6:00	664.1
6/23/2021 6:00	6/23/2021 7:00	765.6
6/23/2021 7:00	6/23/2021 8:00	862.9
6/23/2021 8:00	6/23/2021 9:00	879.5
6/23/2021 9:00	6/23/2021 10:00	897.2
6/23/2021 10:00	6/23/2021 11:00	931.4
6/23/2021 11:00	6/23/2021 12:00	1013.8
6/23/2021 12:00	6/23/2021 13:00	1048.3
6/23/2021 13:00	6/23/2021 14:00	1051.9
6/23/2021 14:00	6/23/2021 15:00	1044.5
6/23/2021 15:00	6/23/2021 16:00	1053.1
6/23/2021 16:00	6/23/2021 17:00	1072.7
6/23/2021 17:00	6/23/2021 18:00	1097.1
6/23/2021 18:00	6/23/2021 19:00	1075.4
6/23/2021 19:00	6/23/2021 20:00	1074.9
6/23/2021 20:00	6/23/2021 21:00	1055.6
6/23/2021 21:00	6/23/2021 22:00	946.5
6/23/2021 22:00	6/23/2021 23:00	849.4
6/23/2021 23:00	6/24/2021 0:00	767.4
6/24/2021 0:00	6/24/2021 1:00	704.5
6/24/2021 1:00	6/24/2021 2:00	731.6
6/24/2021 2:00	6/24/2021 3:00	721.9
6/24/2021 3:00	6/24/2021 4:00	732.9
6/24/2021 4:00	6/24/2021 5:00	764.8
6/24/2021 5:00	6/24/2021 6:00	808.0
6/24/2021 6:00	6/24/2021 7:00	893.8
6/24/2021 7:00	6/24/2021 8:00	1020.9
6/24/2021 8:00	6/24/2021 9:00	1083.1
6/24/2021 9:00	6/24/2021 10:00	1111.0
6/24/2021 10:00	6/24/2021 11:00	1115.0
6/24/2021 11:00	6/24/2021 12:00	1135.4
6/24/2021 12:00	6/24/2021 13:00	1158.3
6/24/2021 13:00	6/24/2021 14:00	1173.7
6/24/2021 14:00	6/24/2021 15:00	1156.2
6/24/2021 15:00	6/24/2021 16:00	1111.1
6/24/2021 16:00	6/24/2021 17:00	1101.9
6/24/2021 17:00	6/24/2021 18:00	1092.5
6/24/2021 18:00	6/24/2021 19:00	1065.8
6/24/2021 19:00	6/24/2021 20:00	1037.1
6/24/2021 20:00	6/24/2021 21:00	1016.9
6/24/2021 21:00	6/24/2021 22:00	974.0
6/24/2021 22:00	6/24/2021 23:00	884.2
6/24/2021 23:00	6/25/2021 0:00	796.6
6/25/2021 0:00	6/25/2021 1:00	803.8
6/25/2021 1:00	6/25/2021 2:00	766.8
6/25/2021 2:00	6/25/2021 3:00	746.1
6/25/2021 3:00	6/25/2021 4:00	747.3
6/25/2021 4:00	6/25/2021 5:00	778.5
6/25/2021 5:00	6/25/2021 6:00	798.8
6/25/2021 6:00	6/25/2021 7:00	876.2
6/25/2021 7:00	6/25/2021 8:00	903.1
6/25/2021 8:00	6/25/2021 9:00	968.6
6/25/2021 9:00	6/25/2021 10:00	931.8
6/25/2021 10:00	6/25/2021 11:00	970.0
6/25/2021 11:00	6/25/2021 12:00	1019.0
6/25/2021 12:00	6/25/2021 13:00	1024.2
6/25/2021 13:00	6/25/2021 14:00	999.8
6/25/2021 14:00	6/25/2021 15:00	969.4
6/25/2021 15:00	6/25/2021 16:00	929.9
6/25/2021 16:00	6/25/2021 17:00	913.3
6/25/2021 17:00	6/25/2021 18:00	918.5
6/25/2021 18:00	6/25/2021 19:00	882.6
6/25/2021 19:00	6/25/2021 20:00	846.3
6/25/2021 20:00	6/25/2021 21:00	831.1
6/25/2021 21:00	6/25/2021 22:00	783.9
6/25/2021 22:00	6/25/2021 23:00	767.5
6/25/2021 23:00	6/26/2021 0:00	700.4
6/26/2021 0:00	6/26/2021 1:00	617.3
6/26/2021 1:00	6/26/2021 2:00	661.8
6/26/2021 2:00	6/26/2021 3:00	644.3

Start Time	End Time	ANL_MW
6/26/2021 3:00	6/26/2021 4:00	639.3
6/26/2021 4:00	6/26/2021 5:00	674.9
6/26/2021 5:00	6/26/2021 6:00	687.1
6/26/2021 6:00	6/26/2021 7:00	712.3
6/26/2021 7:00	6/26/2021 8:00	791.1
6/26/2021 8:00	6/26/2021 9:00	850.4
6/26/2021 9:00	6/26/2021 10:00	905.2
6/26/2021 10:00	6/26/2021 11:00	885.8
6/26/2021 11:00	6/26/2021 12:00	877.4
6/26/2021 12:00	6/26/2021 13:00	859.0
6/26/2021 13:00	6/26/2021 14:00	836.9
6/26/2021 14:00	6/26/2021 15:00	819.4
6/26/2021 15:00	6/26/2021 16:00	826.7
6/26/2021 16:00	6/26/2021 17:00	868.4
6/26/2021 17:00	6/26/2021 18:00	894.2
6/26/2021 18:00	6/26/2021 19:00	902.2
6/26/2021 19:00	6/26/2021 20:00	891.8
6/26/2021 20:00	6/26/2021 21:00	822.7
6/26/2021 21:00	6/26/2021 22:00	788.8
6/26/2021 22:00	6/26/2021 23:00	734.5
6/26/2021 23:00	6/27/2021 0:00	731.0
6/27/2021 0:00	6/27/2021 1:00	636.7
6/27/2021 1:00	6/27/2021 2:00	563.8
6/27/2021 2:00	6/27/2021 3:00	523.9
6/27/2021 3:00	6/27/2021 4:00	504.6
6/27/2021 4:00	6/27/2021 5:00	470.1
6/27/2021 5:00	6/27/2021 6:00	469.4
6/27/2021 6:00	6/27/2021 7:00	479.2
6/27/2021 7:00	6/27/2021 8:00	539.0
6/27/2021 8:00	6/27/2021 9:00	620.8
6/27/2021 9:00	6/27/2021 10:00	692.8
6/27/2021 10:00	6/27/2021 11:00	742.3
6/27/2021 11:00	6/27/2021 12:00	722.4
6/27/2021 12:00	6/27/2021 13:00	750.8
6/27/2021 13:00	6/27/2021 14:00	746.2
6/27/2021 14:00	6/27/2021 15:00	748.0
6/27/2021 15:00	6/27/2021 16:00	765.6
6/27/2021 16:00	6/27/2021 17:00	813.0
6/27/2021 17:00	6/27/2021 18:00	825.7
6/27/2021 18:00	6/27/2021 19:00	793.3
6/27/2021 19:00	6/27/2021 20:00	747.3
6/27/2021 20:00	6/27/2021 21:00	730.4
6/27/2021 21:00	6/27/2021 22:00	674.2
6/27/2021 22:00	6/27/2021 23:00	589.9
6/27/2021 23:00	6/28/2021 0:00	496.0
6/28/2021 0:00	6/28/2021 1:00	467.5
6/28/2021 1:00	6/28/2021 2:00	449.1
6/28/2021 2:00	6/28/2021 3:00	440.7
6/28/2021 3:00	6/28/2021 4:00	430.6
6/28/2021 4:00	6/28/2021 5:00	426.8
6/28/2021 5:00	6/28/2021 6:00	462.4
6/28/2021 6:00	6/28/2021 7:00	592.4
6/28/2021 7:00	6/28/2021 8:00	769.2
6/28/2021 8:00	6/28/2021 9:00	879.4
6/28/2021 9:00	6/28/2021 10:00	1008.9
6/28/2021 10:00	6/28/2021 11:00	1043.7
6/28/2021 11:00	6/28/2021 12:00	1052.3
6/28/2021 12:00	6/28/2021 13:00	1119.5
6/28/2021 13:00	6/28/2021 14:00	1167.6
6/28/2021 14:00	6/28/2021 15:00	1173.9
6/28/2021 15:00	6/28/2021 16:00	1176.5
6/28/2021 16:00	6/28/2021 17:00	1214.1
6/28/2021 17:00	6/28/2021 18:00	1246.1
6/28/2021 18:00	6/28/2021 19:00	1162.2
6/28/2021 19:00	6/28/2021 20:00	1162.5
6/28/2021 20:00	6/28/2021 21:00	1140.7
6/28/2021 21:00	6/28/2021 22:00	1114.9
6/28/2021 22:00	6/28/2021 23:00	1048.0
6/28/2021 23:00	6/29/2021 0:00	978.5
6/29/2021 0:00	6/29/2021 1:00	959.6

Start Time	End Time	ANL_MW
6/29/2021 1:00	6/29/2021 2:00	929.4
6/29/2021 2:00	6/29/2021 3:00	902.3
6/29/2021 3:00	6/29/2021 4:00	873.4
6/29/2021 4:00	6/29/2021 5:00	858.3
6/29/2021 5:00	6/29/2021 6:00	872.3
6/29/2021 6:00	6/29/2021 7:00	938.7
6/29/2021 7:00	6/29/2021 8:00	983.8
6/29/2021 8:00	6/29/2021 9:00	1019.9
6/29/2021 9:00	6/29/2021 10:00	1077.3
6/29/2021 10:00	6/29/2021 11:00	1101.7
6/29/2021 11:00	6/29/2021 12:00	1126.1
6/29/2021 12:00	6/29/2021 13:00	1141.2
6/29/2021 13:00	6/29/2021 14:00	1136.5
6/29/2021 14:00	6/29/2021 15:00	1124.1
6/29/2021 15:00	6/29/2021 16:00	1116.2
6/29/2021 16:00	6/29/2021 17:00	1128.2
6/29/2021 17:00	6/29/2021 18:00	1173.3
6/29/2021 18:00	6/29/2021 19:00	1156.5
6/29/2021 19:00	6/29/2021 20:00	1151.5
6/29/2021 20:00	6/29/2021 21:00	1120.6
6/29/2021 21:00	6/29/2021 22:00	1092.7
6/29/2021 22:00	6/29/2021 23:00	1055.6
6/29/2021 23:00	6/30/2021 0:00	995.8
6/30/2021 0:00	6/30/2021 1:00	952.0
6/30/2021 1:00	6/30/2021 2:00	924.8
6/30/2021 2:00	6/30/2021 3:00	911.7
6/30/2021 3:00	6/30/2021 4:00	908.3
6/30/2021 4:00	6/30/2021 5:00	918.1
6/30/2021 5:00	6/30/2021 6:00	901.2
6/30/2021 6:00	6/30/2021 7:00	949.6
6/30/2021 7:00	6/30/2021 8:00	1055.5
6/30/2021 8:00	6/30/2021 9:00	1120.1
6/30/2021 9:00	6/30/2021 10:00	1113.2
6/30/2021 10:00	6/30/2021 11:00	1100.7
6/30/2021 11:00	6/30/2021 12:00	1125.5
6/30/2021 12:00	6/30/2021 13:00	1138.0
6/30/2021 13:00	6/30/2021 14:00	1138.6
6/30/2021 14:00	6/30/2021 15:00	1119.7
6/30/2021 15:00	6/30/2021 16:00	1118.9
6/30/2021 16:00	6/30/2021 17:00	1108.3
6/30/2021 17:00	6/30/2021 18:00	1149.9
6/30/2021 18:00	6/30/2021 19:00	1121.5
6/30/2021 19:00	6/30/2021 20:00	1139.4
6/30/2021 20:00	6/30/2021 21:00	1136.4
6/30/2021 21:00	6/30/2021 22:00	1104.0
6/30/2021 22:00	6/30/2021 23:00	1070.2
6/30/2021 23:00	7/1/2021 0:00	1038.5
7/1/2021 0:00	7/1/2021 1:00	953.0
7/1/2021 1:00	7/1/2021 2:00	870.6
7/1/2021 2:00	7/1/2021 3:00	796.4
7/1/2021 3:00	7/1/2021 4:00	771.9
7/1/2021 4:00	7/1/2021 5:00	729.3
7/1/2021 5:00	7/1/2021 6:00	699.9
7/1/2021 6:00	7/1/2021 7:00	717.9
7/1/2021 7:00	7/1/2021 8:00	820.0
7/1/2021 8:00	7/1/2021 9:00	962.7
7/1/2021 9:00	7/1/2021 10:00	1052.2
7/1/2021 10:00	7/1/2021 11:00	1050.2
7/1/2021 11:00	7/1/2021 12:00	1072.2
7/1/2021 12:00	7/1/2021 13:00	1070.1
7/1/2021 13:00	7/1/2021 14:00	1056.6
7/1/2021 14:00	7/1/2021 15:00	1057.7
7/1/2021 15:00	7/1/2021 16:00	1051.2
7/1/2021 16:00	7/1/2021 17:00	1027.3
7/1/2021 17:00	7/1/2021 18:00	1040.8
7/1/2021 18:00	7/1/2021 19:00	1016.5
7/1/2021 19:00	7/1/2021 20:00	1009.6
7/1/2021 20:00	7/1/2021 21:00	998.7
7/1/2021 21:00	7/1/2021 22:00	1013.7
7/1/2021 22:00	7/1/2021 23:00	931.6

Start Time	End Time	ANL_MW
7/1/2021 23:00	7/2/2021 0:00	851.8
7/2/2021 0:00	7/2/2021 1:00	798.8
7/2/2021 1:00	7/2/2021 2:00	783.5
7/2/2021 2:00	7/2/2021 3:00	745.9
7/2/2021 3:00	7/2/2021 4:00	753.4
7/2/2021 4:00	7/2/2021 5:00	754.3
7/2/2021 5:00	7/2/2021 6:00	781.3
7/2/2021 6:00	7/2/2021 7:00	822.3
7/2/2021 7:00	7/2/2021 8:00	908.1
7/2/2021 8:00	7/2/2021 9:00	989.0
7/2/2021 9:00	7/2/2021 10:00	1032.6
7/2/2021 10:00	7/2/2021 11:00	1007.9
7/2/2021 11:00	7/2/2021 12:00	1009.0
7/2/2021 12:00	7/2/2021 13:00	1017.0
7/2/2021 13:00	7/2/2021 14:00	998.7
7/2/2021 14:00	7/2/2021 15:00	967.3
7/2/2021 15:00	7/2/2021 16:00	966.6
7/2/2021 16:00	7/2/2021 17:00	992.8
7/2/2021 17:00	7/2/2021 18:00	990.3
7/2/2021 18:00	7/2/2021 19:00	971.4
7/2/2021 19:00	7/2/2021 20:00	929.0
7/2/2021 20:00	7/2/2021 21:00	896.9
7/2/2021 21:00	7/2/2021 22:00	870.9
7/2/2021 22:00	7/2/2021 23:00	887.2
7/2/2021 23:00	7/3/2021 0:00	857.5
7/3/2021 0:00	7/3/2021 1:00	798.0
7/3/2021 1:00	7/3/2021 2:00	768.7
7/3/2021 2:00	7/3/2021 3:00	751.6
7/3/2021 3:00	7/3/2021 4:00	734.1
7/3/2021 4:00	7/3/2021 5:00	743.5
7/3/2021 5:00	7/3/2021 6:00	740.9
7/3/2021 6:00	7/3/2021 7:00	761.4
7/3/2021 7:00	7/3/2021 8:00	795.1
7/3/2021 8:00	7/3/2021 9:00	854.8
7/3/2021 9:00	7/3/2021 10:00	856.7
7/3/2021 10:00	7/3/2021 11:00	877.2
7/3/2021 11:00	7/3/2021 12:00	882.6
7/3/2021 12:00	7/3/2021 13:00	865.5
7/3/2021 13:00	7/3/2021 14:00	837.6
7/3/2021 14:00	7/3/2021 15:00	807.8
7/3/2021 15:00	7/3/2021 16:00	808.8
7/3/2021 16:00	7/3/2021 17:00	821.3
7/3/2021 17:00	7/3/2021 18:00	827.3
7/3/2021 18:00	7/3/2021 19:00	797.8
7/3/2021 19:00	7/3/2021 20:00	757.3
7/3/2021 20:00	7/3/2021 21:00	789.0
7/3/2021 21:00	7/3/2021 22:00	790.3
7/3/2021 22:00	7/3/2021 23:00	720.6
7/3/2021 23:00	7/4/2021 0:00	682.8
7/4/2021 0:00	7/4/2021 1:00	616.9
7/4/2021 1:00	7/4/2021 2:00	560.5
7/4/2021 2:00	7/4/2021 3:00	566.2
7/4/2021 3:00	7/4/2021 4:00	572.9
7/4/2021 4:00	7/4/2021 5:00	617.4
7/4/2021 5:00	7/4/2021 6:00	572.7
7/4/2021 6:00	7/4/2021 7:00	572.0
7/4/2021 7:00	7/4/2021 8:00	668.2
7/4/2021 8:00	7/4/2021 9:00	763.3
7/4/2021 9:00	7/4/2021 10:00	846.6
7/4/2021 10:00	7/4/2021 11:00	905.0
7/4/2021 11:00	7/4/2021 12:00	852.1
7/4/2021 12:00	7/4/2021 13:00	870.1
7/4/2021 13:00	7/4/2021 14:00	875.6
7/4/2021 14:00	7/4/2021 15:00	886.0
7/4/2021 15:00	7/4/2021 16:00	902.5
7/4/2021 16:00	7/4/2021 17:00	960.3
7/4/2021 17:00	7/4/2021 18:00	1013.3
7/4/2021 18:00	7/4/2021 19:00	993.2
7/4/2021 19:00	7/4/2021 20:00	947.4
7/4/2021 20:00	7/4/2021 21:00	909.2

Start Time	End Time	ANL_MW
7/4/2021 21:00	7/4/2021 22:00	914.0
7/4/2021 22:00	7/4/2021 23:00	865.3
7/4/2021 23:00	7/5/2021 0:00	869.9
7/5/2021 0:00	7/5/2021 1:00	800.3
7/5/2021 1:00	7/5/2021 2:00	766.8
7/5/2021 2:00	7/5/2021 3:00	743.9
7/5/2021 3:00	7/5/2021 4:00	720.7
7/5/2021 4:00	7/5/2021 5:00	739.0
7/5/2021 5:00	7/5/2021 6:00	729.9
7/5/2021 6:00	7/5/2021 7:00	761.9
7/5/2021 7:00	7/5/2021 8:00	872.9
7/5/2021 8:00	7/5/2021 9:00	899.5
7/5/2021 9:00	7/5/2021 10:00	908.6
7/5/2021 10:00	7/5/2021 11:00	904.6
7/5/2021 11:00	7/5/2021 12:00	898.2
7/5/2021 12:00	7/5/2021 13:00	888.1
7/5/2021 13:00	7/5/2021 14:00	919.5
7/5/2021 14:00	7/5/2021 15:00	893.0
7/5/2021 15:00	7/5/2021 16:00	914.7
7/5/2021 16:00	7/5/2021 17:00	919.4
7/5/2021 17:00	7/5/2021 18:00	957.8
7/5/2021 18:00	7/5/2021 19:00	961.7
7/5/2021 19:00	7/5/2021 20:00	933.8
7/5/2021 20:00	7/5/2021 21:00	900.0
7/5/2021 21:00	7/5/2021 22:00	887.8
7/5/2021 22:00	7/5/2021 23:00	789.0
7/5/2021 23:00	7/6/2021 0:00	696.3
7/6/2021 0:00	7/6/2021 1:00	618.1
7/6/2021 1:00	7/6/2021 2:00	569.0
7/6/2021 2:00	7/6/2021 3:00	531.1
7/6/2021 3:00	7/6/2021 4:00	539.7
7/6/2021 4:00	7/6/2021 5:00	575.0
7/6/2021 5:00	7/6/2021 6:00	602.8
7/6/2021 6:00	7/6/2021 7:00	692.7
7/6/2021 7:00	7/6/2021 8:00	814.4
7/6/2021 8:00	7/6/2021 9:00	884.8
7/6/2021 9:00	7/6/2021 10:00	908.2
7/6/2021 10:00	7/6/2021 11:00	916.4
7/6/2021 11:00	7/6/2021 12:00	944.9
7/6/2021 12:00	7/6/2021 13:00	950.6
7/6/2021 13:00	7/6/2021 14:00	923.1
7/6/2021 14:00	7/6/2021 15:00	882.9
7/6/2021 15:00	7/6/2021 16:00	857.1
7/6/2021 16:00	7/6/2021 17:00	892.0
7/6/2021 17:00	7/6/2021 18:00	865.1
7/6/2021 18:00	7/6/2021 19:00	825.2
7/6/2021 19:00	7/6/2021 20:00	812.3
7/6/2021 20:00	7/6/2021 21:00	801.7
7/6/2021 21:00	7/6/2021 22:00	805.8
7/6/2021 22:00	7/6/2021 23:00	786.2
7/6/2021 23:00	7/7/2021 0:00	741.3
7/7/2021 0:00	7/7/2021 1:00	711.1
7/7/2021 1:00	7/7/2021 2:00	707.0
7/7/2021 2:00	7/7/2021 3:00	685.8
7/7/2021 3:00	7/7/2021 4:00	699.6
7/7/2021 4:00	7/7/2021 5:00	715.3
7/7/2021 5:00	7/7/2021 6:00	750.2
7/7/2021 6:00	7/7/2021 7:00	787.8
7/7/2021 7:00	7/7/2021 8:00	855.2
7/7/2021 8:00	7/7/2021 9:00	912.7
7/7/2021 9:00	7/7/2021 10:00	974.5
7/7/2021 10:00	7/7/2021 11:00	985.4
7/7/2021 11:00	7/7/2021 12:00	988.2
7/7/2021 12:00	7/7/2021 13:00	990.8
7/7/2021 13:00	7/7/2021 14:00	1028.0
7/7/2021 14:00	7/7/2021 15:00	1056.7
7/7/2021 15:00	7/7/2021 16:00	1097.9
7/7/2021 16:00	7/7/2021 17:00	1116.9
7/7/2021 17:00	7/7/2021 18:00	1111.6
7/7/2021 18:00	7/7/2021 19:00	1121.5

Start Time	End Time	ANL_MW
7/7/2021 19:00	7/7/2021 20:00	1099.1
7/7/2021 20:00	7/7/2021 21:00	1095.2
7/7/2021 21:00	7/7/2021 22:00	1056.5
7/7/2021 22:00	7/7/2021 23:00	977.1
7/7/2021 23:00	7/8/2021 0:00	920.1
7/8/2021 0:00	7/8/2021 1:00	826.8
7/8/2021 1:00	7/8/2021 2:00	758.3
7/8/2021 2:00	7/8/2021 3:00	722.9
7/8/2021 3:00	7/8/2021 4:00	734.6
7/8/2021 4:00	7/8/2021 5:00	734.8
7/8/2021 5:00	7/8/2021 6:00	706.5
7/8/2021 6:00	7/8/2021 7:00	814.4
7/8/2021 7:00	7/8/2021 8:00	945.1
7/8/2021 8:00	7/8/2021 9:00	1023.7
7/8/2021 9:00	7/8/2021 10:00	1065.9
7/8/2021 10:00	7/8/2021 11:00	1119.8
7/8/2021 11:00	7/8/2021 12:00	1135.4
7/8/2021 12:00	7/8/2021 13:00	1128.3
7/8/2021 13:00	7/8/2021 14:00	1129.6
7/8/2021 14:00	7/8/2021 15:00	1119.9
7/8/2021 15:00	7/8/2021 16:00	1137.8
7/8/2021 16:00	7/8/2021 17:00	1159.5
7/8/2021 17:00	7/8/2021 18:00	1158.2
7/8/2021 18:00	7/8/2021 19:00	1118.8
7/8/2021 19:00	7/8/2021 20:00	1071.3
7/8/2021 20:00	7/8/2021 21:00	1032.5
7/8/2021 21:00	7/8/2021 22:00	1015.6
7/8/2021 22:00	7/8/2021 23:00	900.3
7/8/2021 23:00	7/9/2021 0:00	787.2
7/9/2021 0:00	7/9/2021 1:00	663.6
7/9/2021 1:00	7/9/2021 2:00	609.2
7/9/2021 2:00	7/9/2021 3:00	585.8
7/9/2021 3:00	7/9/2021 4:00	582.2
7/9/2021 4:00	7/9/2021 5:00	593.1
7/9/2021 5:00	7/9/2021 6:00	618.4
7/9/2021 6:00	7/9/2021 7:00	673.1
7/9/2021 7:00	7/9/2021 8:00	776.2
7/9/2021 8:00	7/9/2021 9:00	849.3
7/9/2021 9:00	7/9/2021 10:00	943.5
7/9/2021 10:00	7/9/2021 11:00	954.1
7/9/2021 11:00	7/9/2021 12:00	998.9
7/9/2021 12:00	7/9/2021 13:00	1016.7
7/9/2021 13:00	7/9/2021 14:00	1011.6
7/9/2021 14:00	7/9/2021 15:00	1019.0
7/9/2021 15:00	7/9/2021 16:00	1027.9
7/9/2021 16:00	7/9/2021 17:00	1014.0
7/9/2021 17:00	7/9/2021 18:00	969.2
7/9/2021 18:00	7/9/2021 19:00	959.9
7/9/2021 19:00	7/9/2021 20:00	953.9
7/9/2021 20:00	7/9/2021 21:00	883.4
7/9/2021 21:00	7/9/2021 22:00	816.4
7/9/2021 22:00	7/9/2021 23:00	726.6
7/9/2021 23:00	7/10/2021 0:00	690.4
7/10/2021 0:00	7/10/2021 1:00	624.5
7/10/2021 1:00	7/10/2021 2:00	585.5
7/10/2021 2:00	7/10/2021 3:00	535.1
7/10/2021 3:00	7/10/2021 4:00	491.8
7/10/2021 4:00	7/10/2021 5:00	473.9
7/10/2021 5:00	7/10/2021 6:00	497.5
7/10/2021 6:00	7/10/2021 7:00	544.2
7/10/2021 7:00	7/10/2021 8:00	647.0
7/10/2021 8:00	7/10/2021 9:00	780.3
7/10/2021 9:00	7/10/2021 10:00	929.7
7/10/2021 10:00	7/10/2021 11:00	1016.3
7/10/2021 11:00	7/10/2021 12:00	1041.2
7/10/2021 12:00	7/10/2021 13:00	1100.2
7/10/2021 13:00	7/10/2021 14:00	1086.6
7/10/2021 14:00	7/10/2021 15:00	1099.0
7/10/2021 15:00	7/10/2021 16:00	1098.8
7/10/2021 16:00	7/10/2021 17:00	1100.2

Start Time	End Time	ANL_MW
7/10/2021 17:00	7/10/2021 18:00	1119.0
7/10/2021 18:00	7/10/2021 19:00	1090.5
7/10/2021 19:00	7/10/2021 20:00	1081.0
7/10/2021 20:00	7/10/2021 21:00	1052.8
7/10/2021 21:00	7/10/2021 22:00	1024.7
7/10/2021 22:00	7/10/2021 23:00	970.3
7/10/2021 23:00	7/11/2021 0:00	922.7
7/11/2021 0:00	7/11/2021 1:00	891.1
7/11/2021 1:00	7/11/2021 2:00	876.1
7/11/2021 2:00	7/11/2021 3:00	912.6
7/11/2021 3:00	7/11/2021 4:00	906.5
7/11/2021 4:00	7/11/2021 5:00	896.1
7/11/2021 5:00	7/11/2021 6:00	881.9
7/11/2021 6:00	7/11/2021 7:00	885.5
7/11/2021 7:00	7/11/2021 8:00	955.2
7/11/2021 8:00	7/11/2021 9:00	998.2
7/11/2021 9:00	7/11/2021 10:00	1058.4
7/11/2021 10:00	7/11/2021 11:00	1094.0
7/11/2021 11:00	7/11/2021 12:00	1108.8
7/11/2021 12:00	7/11/2021 13:00	1100.2
7/11/2021 13:00	7/11/2021 14:00	1089.5
7/11/2021 14:00	7/11/2021 15:00	1064.3
7/11/2021 15:00	7/11/2021 16:00	1098.6
7/11/2021 16:00	7/11/2021 17:00	1120.3
7/11/2021 17:00	7/11/2021 18:00	1129.1
7/11/2021 18:00	7/11/2021 19:00	1088.4
7/11/2021 19:00	7/11/2021 20:00	1073.3
7/11/2021 20:00	7/11/2021 21:00	1036.4
7/11/2021 21:00	7/11/2021 22:00	1022.3
7/11/2021 22:00	7/11/2021 23:00	950.7
7/11/2021 23:00	7/12/2021 0:00	884.8
7/12/2021 0:00	7/12/2021 1:00	841.7
7/12/2021 1:00	7/12/2021 2:00	769.3
7/12/2021 2:00	7/12/2021 3:00	736.0
7/12/2021 3:00	7/12/2021 4:00	746.9
7/12/2021 4:00	7/12/2021 5:00	751.6
7/12/2021 5:00	7/12/2021 6:00	775.1
7/12/2021 6:00	7/12/2021 7:00	860.8
7/12/2021 7:00	7/12/2021 8:00	973.0
7/12/2021 8:00	7/12/2021 9:00	1000.7
7/12/2021 9:00	7/12/2021 10:00	1048.0
7/12/2021 10:00	7/12/2021 11:00	1079.7
7/12/2021 11:00	7/12/2021 12:00	1137.2
7/12/2021 12:00	7/12/2021 13:00	1164.1
7/12/2021 13:00	7/12/2021 14:00	1126.1
7/12/2021 14:00	7/12/2021 15:00	1085.2
7/12/2021 15:00	7/12/2021 16:00	1089.7
7/12/2021 16:00	7/12/2021 17:00	1123.6
7/12/2021 17:00	7/12/2021 18:00	1146.4
7/12/2021 18:00	7/12/2021 19:00	1126.0
7/12/2021 19:00	7/12/2021 20:00	1103.0
7/12/2021 20:00	7/12/2021 21:00	1079.6
7/12/2021 21:00	7/12/2021 22:00	1115.8
7/12/2021 22:00	7/12/2021 23:00	1068.1
7/12/2021 23:00	7/13/2021 0:00	997.7
7/13/2021 0:00	7/13/2021 1:00	963.9
7/13/2021 1:00	7/13/2021 2:00	915.9
7/13/2021 2:00	7/13/2021 3:00	899.7
7/13/2021 3:00	7/13/2021 4:00	893.0
7/13/2021 4:00	7/13/2021 5:00	889.2
7/13/2021 5:00	7/13/2021 6:00	908.8
7/13/2021 6:00	7/13/2021 7:00	986.8
7/13/2021 7:00	7/13/2021 8:00	1089.4
7/13/2021 8:00	7/13/2021 9:00	1076.2
7/13/2021 9:00	7/13/2021 10:00	1086.1
7/13/2021 10:00	7/13/2021 11:00	1088.9
7/13/2021 11:00	7/13/2021 12:00	1103.7
7/13/2021 12:00	7/13/2021 13:00	1102.3
7/13/2021 13:00	7/13/2021 14:00	1095.3
7/13/2021 14:00	7/13/2021 15:00	1070.4

Start Time	End Time	ANL_MW
7/13/2021 15:00	7/13/2021 16:00	1055.1
7/13/2021 16:00	7/13/2021 17:00	1085.3
7/13/2021 17:00	7/13/2021 18:00	1101.8
7/13/2021 18:00	7/13/2021 19:00	1070.9
7/13/2021 19:00	7/13/2021 20:00	1033.1
7/13/2021 20:00	7/13/2021 21:00	994.2
7/13/2021 21:00	7/13/2021 22:00	953.0
7/13/2021 22:00	7/13/2021 23:00	898.8
7/13/2021 23:00	7/14/2021 0:00	837.5
7/14/2021 0:00	7/14/2021 1:00	764.9
7/14/2021 1:00	7/14/2021 2:00	757.6
7/14/2021 2:00	7/14/2021 3:00	747.7
7/14/2021 3:00	7/14/2021 4:00	744.7
7/14/2021 4:00	7/14/2021 5:00	668.7
7/14/2021 5:00	7/14/2021 6:00	655.8
7/14/2021 6:00	7/14/2021 7:00	734.9
7/14/2021 7:00	7/14/2021 8:00	872.9
7/14/2021 8:00	7/14/2021 9:00	1043.0
7/14/2021 9:00	7/14/2021 10:00	1103.4
7/14/2021 10:00	7/14/2021 11:00	1114.2
7/14/2021 11:00	7/14/2021 12:00	1107.2
7/14/2021 12:00	7/14/2021 13:00	1054.8
7/14/2021 13:00	7/14/2021 14:00	1008.4
7/14/2021 14:00	7/14/2021 15:00	983.2
7/14/2021 15:00	7/14/2021 16:00	973.5
7/14/2021 16:00	7/14/2021 17:00	987.2
7/14/2021 17:00	7/14/2021 18:00	974.7
7/14/2021 18:00	7/14/2021 19:00	920.0
7/14/2021 19:00	7/14/2021 20:00	912.8
7/14/2021 20:00	7/14/2021 21:00	913.2
7/14/2021 21:00	7/14/2021 22:00	885.6
7/14/2021 22:00	7/14/2021 23:00	800.5
7/14/2021 23:00	7/15/2021 0:00	733.4
7/15/2021 0:00	7/15/2021 1:00	697.0
7/15/2021 1:00	7/15/2021 2:00	649.7
7/15/2021 2:00	7/15/2021 3:00	616.8
7/15/2021 3:00	7/15/2021 4:00	607.4
7/15/2021 4:00	7/15/2021 5:00	641.2
7/15/2021 5:00	7/15/2021 6:00	664.5
7/15/2021 6:00	7/15/2021 7:00	756.1
7/15/2021 7:00	7/15/2021 8:00	882.3
7/15/2021 8:00	7/15/2021 9:00	952.9
7/15/2021 9:00	7/15/2021 10:00	950.8
7/15/2021 10:00	7/15/2021 11:00	960.5
7/15/2021 11:00	7/15/2021 12:00	961.0
7/15/2021 12:00	7/15/2021 13:00	997.4
7/15/2021 13:00	7/15/2021 14:00	963.1
7/15/2021 14:00	7/15/2021 15:00	973.4
7/15/2021 15:00	7/15/2021 16:00	1035.0
7/15/2021 16:00	7/15/2021 17:00	1084.9
7/15/2021 17:00	7/15/2021 18:00	1054.3
7/15/2021 18:00	7/15/2021 19:00	1043.6
7/15/2021 19:00	7/15/2021 20:00	1026.0
7/15/2021 20:00	7/15/2021 21:00	993.3
7/15/2021 21:00	7/15/2021 22:00	955.9
7/15/2021 22:00	7/15/2021 23:00	856.5
7/15/2021 23:00	7/16/2021 0:00	769.4
7/16/2021 0:00	7/16/2021 1:00	757.4
7/16/2021 1:00	7/16/2021 2:00	706.9
7/16/2021 2:00	7/16/2021 3:00	695.5
7/16/2021 3:00	7/16/2021 4:00	720.3
7/16/2021 4:00	7/16/2021 5:00	727.6
7/16/2021 5:00	7/16/2021 6:00	752.1
7/16/2021 6:00	7/16/2021 7:00	755.0
7/16/2021 7:00	7/16/2021 8:00	851.8
7/16/2021 8:00	7/16/2021 9:00	925.1
7/16/2021 9:00	7/16/2021 10:00	1011.0
7/16/2021 10:00	7/16/2021 11:00	1070.5
7/16/2021 11:00	7/16/2021 12:00	1071.9
7/16/2021 12:00	7/16/2021 13:00	1026.4

Start Time	End Time	ANL_MW
7/16/2021 13:00	7/16/2021 14:00	981.2
7/16/2021 14:00	7/16/2021 15:00	946.6
7/16/2021 15:00	7/16/2021 16:00	929.7
7/16/2021 16:00	7/16/2021 17:00	919.2
7/16/2021 17:00	7/16/2021 18:00	937.9
7/16/2021 18:00	7/16/2021 19:00	942.7
7/16/2021 19:00	7/16/2021 20:00	980.5
7/16/2021 20:00	7/16/2021 21:00	943.2
7/16/2021 21:00	7/16/2021 22:00	937.4
7/16/2021 22:00	7/16/2021 23:00	889.5
7/16/2021 23:00	7/17/2021 0:00	878.0
7/17/2021 0:00	7/17/2021 1:00	855.2
7/17/2021 1:00	7/17/2021 2:00	875.6
7/17/2021 2:00	7/17/2021 3:00	880.5
7/17/2021 3:00	7/17/2021 4:00	904.2
7/17/2021 4:00	7/17/2021 5:00	916.9
7/17/2021 5:00	7/17/2021 6:00	922.9
7/17/2021 6:00	7/17/2021 7:00	956.4
7/17/2021 7:00	7/17/2021 8:00	1033.6
7/17/2021 8:00	7/17/2021 9:00	1107.7
7/17/2021 9:00	7/17/2021 10:00	1156.3
7/17/2021 10:00	7/17/2021 11:00	1198.8
7/17/2021 11:00	7/17/2021 12:00	1192.6
7/17/2021 12:00	7/17/2021 13:00	1189.3
7/17/2021 13:00	7/17/2021 14:00	1184.2
7/17/2021 14:00	7/17/2021 15:00	1175.5
7/17/2021 15:00	7/17/2021 16:00	1176.2
7/17/2021 16:00	7/17/2021 17:00	1181.3
7/17/2021 17:00	7/17/2021 18:00	1191.5
7/17/2021 18:00	7/17/2021 19:00	1164.9
7/17/2021 19:00	7/17/2021 20:00	1126.6
7/17/2021 20:00	7/17/2021 21:00	1133.9
7/17/2021 21:00	7/17/2021 22:00	1126.9
7/17/2021 22:00	7/17/2021 23:00	1081.6
7/17/2021 23:00	7/18/2021 0:00	1005.6
7/18/2021 0:00	7/18/2021 1:00	954.2
7/18/2021 1:00	7/18/2021 2:00	906.4
7/18/2021 2:00	7/18/2021 3:00	875.0
7/18/2021 3:00	7/18/2021 4:00	859.3
7/18/2021 4:00	7/18/2021 5:00	861.9
7/18/2021 5:00	7/18/2021 6:00	857.0
7/18/2021 6:00	7/18/2021 7:00	872.2
7/18/2021 7:00	7/18/2021 8:00	948.8
7/18/2021 8:00	7/18/2021 9:00	1071.3
7/18/2021 9:00	7/18/2021 10:00	1130.2
7/18/2021 10:00	7/18/2021 11:00	1189.3
7/18/2021 11:00	7/18/2021 12:00	1235.2
7/18/2021 12:00	7/18/2021 13:00	1255.4
7/18/2021 13:00	7/18/2021 14:00	1257.4
7/18/2021 14:00	7/18/2021 15:00	1250.3
7/18/2021 15:00	7/18/2021 16:00	1228.0
7/18/2021 16:00	7/18/2021 17:00	1246.8
7/18/2021 17:00	7/18/2021 18:00	1259.9
7/18/2021 18:00	7/18/2021 19:00	1226.3
7/18/2021 19:00	7/18/2021 20:00	1183.6
7/18/2021 20:00	7/18/2021 21:00	1140.6
7/18/2021 21:00	7/18/2021 22:00	1101.4
7/18/2021 22:00	7/18/2021 23:00	1006.0
7/18/2021 23:00	7/19/2021 0:00	927.5
7/19/2021 0:00	7/19/2021 1:00	869.2
7/19/2021 1:00	7/19/2021 2:00	821.2
7/19/2021 2:00	7/19/2021 3:00	809.5
7/19/2021 3:00	7/19/2021 4:00	794.8
7/19/2021 4:00	7/19/2021 5:00	834.8
7/19/2021 5:00	7/19/2021 6:00	869.9
7/19/2021 6:00	7/19/2021 7:00	931.6
7/19/2021 7:00	7/19/2021 8:00	1062.3
7/19/2021 8:00	7/19/2021 9:00	1150.3
7/19/2021 9:00	7/19/2021 10:00	1227.8
7/19/2021 10:00	7/19/2021 11:00	1261.5

Start Time	End Time	ANL_MW
7/19/2021 11:00	7/19/2021 12:00	1267.9
7/19/2021 12:00	7/19/2021 13:00	1236.1
7/19/2021 13:00	7/19/2021 14:00	1206.2
7/19/2021 14:00	7/19/2021 15:00	1193.0
7/19/2021 15:00	7/19/2021 16:00	1187.0
7/19/2021 16:00	7/19/2021 17:00	1207.0
7/19/2021 17:00	7/19/2021 18:00	1219.0
7/19/2021 18:00	7/19/2021 19:00	1147.9
7/19/2021 19:00	7/19/2021 20:00	1140.1
7/19/2021 20:00	7/19/2021 21:00	1095.8
7/19/2021 21:00	7/19/2021 22:00	1073.4
7/19/2021 22:00	7/19/2021 23:00	973.0
7/19/2021 23:00	7/20/2021 0:00	893.2
7/20/2021 0:00	7/20/2021 1:00	859.6
7/20/2021 1:00	7/20/2021 2:00	782.7
7/20/2021 2:00	7/20/2021 3:00	735.2
7/20/2021 3:00	7/20/2021 4:00	731.9
7/20/2021 4:00	7/20/2021 5:00	795.4
7/20/2021 5:00	7/20/2021 6:00	821.7
7/20/2021 6:00	7/20/2021 7:00	921.7
7/20/2021 7:00	7/20/2021 8:00	1044.5
7/20/2021 8:00	7/20/2021 9:00	1164.1
7/20/2021 9:00	7/20/2021 10:00	1230.0
7/20/2021 10:00	7/20/2021 11:00	1258.8
7/20/2021 11:00	7/20/2021 12:00	1279.1
7/20/2021 12:00	7/20/2021 13:00	1232.9
7/20/2021 13:00	7/20/2021 14:00	1227.7
7/20/2021 14:00	7/20/2021 15:00	1212.4
7/20/2021 15:00	7/20/2021 16:00	1220.1
7/20/2021 16:00	7/20/2021 17:00	1271.4
7/20/2021 17:00	7/20/2021 18:00	1299.3
7/20/2021 18:00	7/20/2021 19:00	1276.4
7/20/2021 19:00	7/20/2021 20:00	1241.8
7/20/2021 20:00	7/20/2021 21:00	1276.7
7/20/2021 21:00	7/20/2021 22:00	1285.1
7/20/2021 22:00	7/20/2021 23:00	1200.9
7/20/2021 23:00	7/21/2021 0:00	1114.8
7/21/2021 0:00	7/21/2021 1:00	1040.7
7/21/2021 1:00	7/21/2021 2:00	995.9
7/21/2021 2:00	7/21/2021 3:00	974.1
7/21/2021 3:00	7/21/2021 4:00	967.9
7/21/2021 4:00	7/21/2021 5:00	975.0
7/21/2021 5:00	7/21/2021 6:00	1003.5
7/21/2021 6:00	7/21/2021 7:00	1072.7
7/21/2021 7:00	7/21/2021 8:00	1172.2
7/21/2021 8:00	7/21/2021 9:00	1234.4
7/21/2021 9:00	7/21/2021 10:00	1278.2
7/21/2021 10:00	7/21/2021 11:00	1276.9
7/21/2021 11:00	7/21/2021 12:00	1284.3
7/21/2021 12:00	7/21/2021 13:00	1294.9
7/21/2021 13:00	7/21/2021 14:00	1287.6
7/21/2021 14:00	7/21/2021 15:00	1268.2
7/21/2021 15:00	7/21/2021 16:00	1270.0
7/21/2021 16:00	7/21/2021 17:00	1261.0
7/21/2021 17:00	7/21/2021 18:00	1229.4
7/21/2021 18:00	7/21/2021 19:00	1164.3
7/21/2021 19:00	7/21/2021 20:00	1167.6
7/21/2021 20:00	7/21/2021 21:00	1133.1
7/21/2021 21:00	7/21/2021 22:00	1145.5
7/21/2021 22:00	7/21/2021 23:00	1100.9
7/21/2021 23:00	7/22/2021 0:00	1048.3
7/22/2021 0:00	7/22/2021 1:00	980.3
7/22/2021 1:00	7/22/2021 2:00	932.2
7/22/2021 2:00	7/22/2021 3:00	916.9
7/22/2021 3:00	7/22/2021 4:00	944.8
7/22/2021 4:00	7/22/2021 5:00	959.4
7/22/2021 5:00	7/22/2021 6:00	994.6
7/22/2021 6:00	7/22/2021 7:00	1054.8
7/22/2021 7:00	7/22/2021 8:00	1134.0
7/22/2021 8:00	7/22/2021 9:00	1168.1

Start Time	End Time	ANL_MW
7/22/2021 9:00	7/22/2021 10:00	1222.1
7/22/2021 10:00	7/22/2021 11:00	1249.7
7/22/2021 11:00	7/22/2021 12:00	1256.3
7/22/2021 12:00	7/22/2021 13:00	1222.2
7/22/2021 13:00	7/22/2021 14:00	1208.8
7/22/2021 14:00	7/22/2021 15:00	1114.8
7/22/2021 15:00	7/22/2021 16:00	1038.7
7/22/2021 16:00	7/22/2021 17:00	1037.4
7/22/2021 17:00	7/22/2021 18:00	1052.7
7/22/2021 18:00	7/22/2021 19:00	1044.9
7/22/2021 19:00	7/22/2021 20:00	1053.0
7/22/2021 20:00	7/22/2021 21:00	1024.3
7/22/2021 21:00	7/22/2021 22:00	988.3
7/22/2021 22:00	7/22/2021 23:00	902.7
7/22/2021 23:00	7/23/2021 0:00	834.5
7/23/2021 0:00	7/23/2021 1:00	832.2
7/23/2021 1:00	7/23/2021 2:00	806.7
7/23/2021 2:00	7/23/2021 3:00	765.9
7/23/2021 3:00	7/23/2021 4:00	751.0
7/23/2021 4:00	7/23/2021 5:00	736.2
7/23/2021 5:00	7/23/2021 6:00	782.5
7/23/2021 6:00	7/23/2021 7:00	894.9
7/23/2021 7:00	7/23/2021 8:00	1040.6
7/23/2021 8:00	7/23/2021 9:00	1119.8
7/23/2021 9:00	7/23/2021 10:00	1133.8
7/23/2021 10:00	7/23/2021 11:00	1160.5
7/23/2021 11:00	7/23/2021 12:00	1179.9
7/23/2021 12:00	7/23/2021 13:00	1165.7
7/23/2021 13:00	7/23/2021 14:00	1144.2
7/23/2021 14:00	7/23/2021 15:00	1125.9
7/23/2021 15:00	7/23/2021 16:00	1130.0
7/23/2021 16:00	7/23/2021 17:00	1111.8
7/23/2021 17:00	7/23/2021 18:00	1092.5
7/23/2021 18:00	7/23/2021 19:00	1069.1
7/23/2021 19:00	7/23/2021 20:00	1036.1
7/23/2021 20:00	7/23/2021 21:00	1010.6
7/23/2021 21:00	7/23/2021 22:00	1008.9
7/23/2021 22:00	7/23/2021 23:00	984.8
7/23/2021 23:00	7/24/2021 0:00	960.5
7/24/2021 0:00	7/24/2021 1:00	874.7
7/24/2021 1:00	7/24/2021 2:00	871.5
7/24/2021 2:00	7/24/2021 3:00	861.7
7/24/2021 3:00	7/24/2021 4:00	864.7
7/24/2021 4:00	7/24/2021 5:00	878.3
7/24/2021 5:00	7/24/2021 6:00	885.4
7/24/2021 6:00	7/24/2021 7:00	908.9
7/24/2021 7:00	7/24/2021 8:00	916.1
7/24/2021 8:00	7/24/2021 9:00	987.5
7/24/2021 9:00	7/24/2021 10:00	1060.3
7/24/2021 10:00	7/24/2021 11:00	1094.3
7/24/2021 11:00	7/24/2021 12:00	1112.5
7/24/2021 12:00	7/24/2021 13:00	1111.0
7/24/2021 13:00	7/24/2021 14:00	1093.4
7/24/2021 14:00	7/24/2021 15:00	1066.2
7/24/2021 15:00	7/24/2021 16:00	1072.6
7/24/2021 16:00	7/24/2021 17:00	1104.2
7/24/2021 17:00	7/24/2021 18:00	1127.5
7/24/2021 18:00	7/24/2021 19:00	1109.3
7/24/2021 19:00	7/24/2021 20:00	1089.1
7/24/2021 20:00	7/24/2021 21:00	1060.1
7/24/2021 21:00	7/24/2021 22:00	1048.9
7/24/2021 22:00	7/24/2021 23:00	964.9
7/24/2021 23:00	7/25/2021 0:00	927.5
7/25/2021 0:00	7/25/2021 1:00	871.5
7/25/2021 1:00	7/25/2021 2:00	829.6
7/25/2021 2:00	7/25/2021 3:00	817.1
7/25/2021 3:00	7/25/2021 4:00	817.6
7/25/2021 4:00	7/25/2021 5:00	805.6
7/25/2021 5:00	7/25/2021 6:00	811.2
7/25/2021 6:00	7/25/2021 7:00	853.6

Start Time	End Time	ANL_MW
7/25/2021 7:00	7/25/2021 8:00	892.3
7/25/2021 8:00	7/25/2021 9:00	972.8
7/25/2021 9:00	7/25/2021 10:00	1053.8
7/25/2021 10:00	7/25/2021 11:00	1091.0
7/25/2021 11:00	7/25/2021 12:00	1106.6
7/25/2021 12:00	7/25/2021 13:00	1099.3
7/25/2021 13:00	7/25/2021 14:00	1052.6
7/25/2021 14:00	7/25/2021 15:00	1032.6
7/25/2021 15:00	7/25/2021 16:00	1009.1
7/25/2021 16:00	7/25/2021 17:00	1031.4
7/25/2021 17:00	7/25/2021 18:00	1046.9
7/25/2021 18:00	7/25/2021 19:00	1030.1
7/25/2021 19:00	7/25/2021 20:00	991.5
7/25/2021 20:00	7/25/2021 21:00	954.1
7/25/2021 21:00	7/25/2021 22:00	939.4
7/25/2021 22:00	7/25/2021 23:00	856.1
7/25/2021 23:00	7/26/2021 0:00	753.1
7/26/2021 0:00	7/26/2021 1:00	708.5
7/26/2021 1:00	7/26/2021 2:00	716.8
7/26/2021 2:00	7/26/2021 3:00	671.2
7/26/2021 3:00	7/26/2021 4:00	658.2
7/26/2021 4:00	7/26/2021 5:00	666.1
7/26/2021 5:00	7/26/2021 6:00	699.8
7/26/2021 6:00	7/26/2021 7:00	805.6
7/26/2021 7:00	7/26/2021 8:00	932.3
7/26/2021 8:00	7/26/2021 9:00	1028.6
7/26/2021 9:00	7/26/2021 10:00	1118.1
7/26/2021 10:00	7/26/2021 11:00	1111.8
7/26/2021 11:00	7/26/2021 12:00	1126.8
7/26/2021 12:00	7/26/2021 13:00	1142.4
7/26/2021 13:00	7/26/2021 14:00	1155.7
7/26/2021 14:00	7/26/2021 15:00	1166.1
7/26/2021 15:00	7/26/2021 16:00	1194.7
7/26/2021 16:00	7/26/2021 17:00	1219.2
7/26/2021 17:00	7/26/2021 18:00	1234.6
7/26/2021 18:00	7/26/2021 19:00	1207.1
7/26/2021 19:00	7/26/2021 20:00	1165.0
7/26/2021 20:00	7/26/2021 21:00	1143.0
7/26/2021 21:00	7/26/2021 22:00	1136.0
7/26/2021 22:00	7/26/2021 23:00	1056.8
7/26/2021 23:00	7/27/2021 0:00	982.6
7/27/2021 0:00	7/27/2021 1:00	951.8
7/27/2021 1:00	7/27/2021 2:00	907.1
7/27/2021 2:00	7/27/2021 3:00	888.1
7/27/2021 3:00	7/27/2021 4:00	891.0
7/27/2021 4:00	7/27/2021 5:00	890.7
7/27/2021 5:00	7/27/2021 6:00	907.3
7/27/2021 6:00	7/27/2021 7:00	977.0
7/27/2021 7:00	7/27/2021 8:00	1084.0
7/27/2021 8:00	7/27/2021 9:00	1163.1
7/27/2021 9:00	7/27/2021 10:00	1144.0
7/27/2021 10:00	7/27/2021 11:00	1172.7
7/27/2021 11:00	7/27/2021 12:00	1200.0
7/27/2021 12:00	7/27/2021 13:00	1220.7
7/27/2021 13:00	7/27/2021 14:00	1219.2
7/27/2021 14:00	7/27/2021 15:00	1194.9
7/27/2021 15:00	7/27/2021 16:00	1202.9
7/27/2021 16:00	7/27/2021 17:00	1241.9
7/27/2021 17:00	7/27/2021 18:00	1257.3
7/27/2021 18:00	7/27/2021 19:00	1218.2
7/27/2021 19:00	7/27/2021 20:00	1171.2
7/27/2021 20:00	7/27/2021 21:00	1136.7
7/27/2021 21:00	7/27/2021 22:00	1111.9
7/27/2021 22:00	7/27/2021 23:00	1015.3
7/27/2021 23:00	7/28/2021 0:00	920.3
7/28/2021 0:00	7/28/2021 1:00	838.8
7/28/2021 1:00	7/28/2021 2:00	865.3
7/28/2021 2:00	7/28/2021 3:00	874.3
7/28/2021 3:00	7/28/2021 4:00	865.4
7/28/2021 4:00	7/28/2021 5:00	893.0

Start Time	End Time	ANL_MW
7/28/2021 5:00	7/28/2021 6:00	933.8
7/28/2021 6:00	7/28/2021 7:00	1013.3
7/28/2021 7:00	7/28/2021 8:00	1114.0
7/28/2021 8:00	7/28/2021 9:00	1152.1
7/28/2021 9:00	7/28/2021 10:00	1177.3
7/28/2021 10:00	7/28/2021 11:00	1209.4
7/28/2021 11:00	7/28/2021 12:00	1218.4
7/28/2021 12:00	7/28/2021 13:00	1210.2
7/28/2021 13:00	7/28/2021 14:00	1217.3
7/28/2021 14:00	7/28/2021 15:00	1196.3
7/28/2021 15:00	7/28/2021 16:00	1190.1
7/28/2021 16:00	7/28/2021 17:00	1195.8
7/28/2021 17:00	7/28/2021 18:00	1230.1
7/28/2021 18:00	7/28/2021 19:00	1179.4
7/28/2021 19:00	7/28/2021 20:00	1156.3
7/28/2021 20:00	7/28/2021 21:00	1131.5
7/28/2021 21:00	7/28/2021 22:00	1097.3
7/28/2021 22:00	7/28/2021 23:00	1009.7
7/28/2021 23:00	7/29/2021 0:00	936.4
7/29/2021 0:00	7/29/2021 1:00	885.8
7/29/2021 1:00	7/29/2021 2:00	910.3
7/29/2021 2:00	7/29/2021 3:00	875.7
7/29/2021 3:00	7/29/2021 4:00	824.8
7/29/2021 4:00	7/29/2021 5:00	809.2
7/29/2021 5:00	7/29/2021 6:00	849.0
7/29/2021 6:00	7/29/2021 7:00	859.0
7/29/2021 7:00	7/29/2021 8:00	982.6
7/29/2021 8:00	7/29/2021 9:00	1089.5
7/29/2021 9:00	7/29/2021 10:00	1135.0
7/29/2021 10:00	7/29/2021 11:00	1118.9
7/29/2021 11:00	7/29/2021 12:00	1164.5
7/29/2021 12:00	7/29/2021 13:00	1166.1
7/29/2021 13:00	7/29/2021 14:00	1150.6
7/29/2021 14:00	7/29/2021 15:00	1135.8
7/29/2021 15:00	7/29/2021 16:00	1145.7
7/29/2021 16:00	7/29/2021 17:00	1158.4
7/29/2021 17:00	7/29/2021 18:00	1151.1
7/29/2021 18:00	7/29/2021 19:00	1116.7
7/29/2021 19:00	7/29/2021 20:00	1110.8
7/29/2021 20:00	7/29/2021 21:00	1105.8
7/29/2021 21:00	7/29/2021 22:00	1083.9
7/29/2021 22:00	7/29/2021 23:00	918.0
7/29/2021 23:00	7/30/2021 0:00	788.7
7/30/2021 0:00	7/30/2021 1:00	744.0
7/30/2021 1:00	7/30/2021 2:00	642.5
7/30/2021 2:00	7/30/2021 3:00	622.3
7/30/2021 3:00	7/30/2021 4:00	608.0
7/30/2021 4:00	7/30/2021 5:00	606.2
7/30/2021 5:00	7/30/2021 6:00	622.9
7/30/2021 6:00	7/30/2021 7:00	672.5
7/30/2021 7:00	7/30/2021 8:00	759.0
7/30/2021 8:00	7/30/2021 9:00	839.9
7/30/2021 9:00	7/30/2021 10:00	898.1
7/30/2021 10:00	7/30/2021 11:00	915.4
7/30/2021 11:00	7/30/2021 12:00	897.8
7/30/2021 12:00	7/30/2021 13:00	871.1
7/30/2021 13:00	7/30/2021 14:00	845.3
7/30/2021 14:00	7/30/2021 15:00	836.0
7/30/2021 15:00	7/30/2021 16:00	855.9
7/30/2021 16:00	7/30/2021 17:00	949.9
7/30/2021 17:00	7/30/2021 18:00	955.0
7/30/2021 18:00	7/30/2021 19:00	897.2
7/30/2021 19:00	7/30/2021 20:00	879.8
7/30/2021 20:00	7/30/2021 21:00	825.2
7/30/2021 21:00	7/30/2021 22:00	822.4
7/30/2021 22:00	7/30/2021 23:00	734.3
7/30/2021 23:00	7/31/2021 0:00	711.8
7/31/2021 0:00	7/31/2021 1:00	708.5
7/31/2021 1:00	7/31/2021 2:00	693.9
7/31/2021 2:00	7/31/2021 3:00	656.1

Start Time	End Time	ANL_MW
7/31/2021 3:00	7/31/2021 4:00	665.5
7/31/2021 4:00	7/31/2021 5:00	677.4
7/31/2021 5:00	7/31/2021 6:00	672.1
7/31/2021 6:00	7/31/2021 7:00	683.2
7/31/2021 7:00	7/31/2021 8:00	750.7
7/31/2021 8:00	7/31/2021 9:00	760.4
7/31/2021 9:00	7/31/2021 10:00	727.0
7/31/2021 10:00	7/31/2021 11:00	729.0
7/31/2021 11:00	7/31/2021 12:00	754.4
7/31/2021 12:00	7/31/2021 13:00	728.6
7/31/2021 13:00	7/31/2021 14:00	714.8
7/31/2021 14:00	7/31/2021 15:00	700.7
7/31/2021 15:00	7/31/2021 16:00	749.5
7/31/2021 16:00	7/31/2021 17:00	775.7
7/31/2021 17:00	7/31/2021 18:00	801.3
7/31/2021 18:00	7/31/2021 19:00	799.6
7/31/2021 19:00	7/31/2021 20:00	808.2
7/31/2021 20:00	7/31/2021 21:00	792.4
7/31/2021 21:00	7/31/2021 22:00	757.0
7/31/2021 22:00	7/31/2021 23:00	692.5
7/31/2021 23:00	8/1/2021 0:00	643.0
8/1/2021 0:00	8/1/2021 1:00	605.7
8/1/2021 1:00	8/1/2021 2:00	660.6
8/1/2021 2:00	8/1/2021 3:00	656.2
8/1/2021 3:00	8/1/2021 4:00	674.5
8/1/2021 4:00	8/1/2021 5:00	709.8
8/1/2021 5:00	8/1/2021 6:00	752.3
8/1/2021 6:00	8/1/2021 7:00	733.2
8/1/2021 7:00	8/1/2021 8:00	804.0
8/1/2021 8:00	8/1/2021 9:00	904.6
8/1/2021 9:00	8/1/2021 10:00	973.6
8/1/2021 10:00	8/1/2021 11:00	997.1
8/1/2021 11:00	8/1/2021 12:00	978.5
8/1/2021 12:00	8/1/2021 13:00	946.3
8/1/2021 13:00	8/1/2021 14:00	928.4
8/1/2021 14:00	8/1/2021 15:00	925.9
8/1/2021 15:00	8/1/2021 16:00	939.3
8/1/2021 16:00	8/1/2021 17:00	967.1
8/1/2021 17:00	8/1/2021 18:00	974.4
8/1/2021 18:00	8/1/2021 19:00	994.9
8/1/2021 19:00	8/1/2021 20:00	1006.3
8/1/2021 20:00	8/1/2021 21:00	989.1
8/1/2021 21:00	8/1/2021 22:00	983.9
8/1/2021 22:00	8/1/2021 23:00	912.8
8/1/2021 23:00	8/2/2021 0:00	830.8
8/2/2021 0:00	8/2/2021 1:00	782.3
8/2/2021 1:00	8/2/2021 2:00	786.2
8/2/2021 2:00	8/2/2021 3:00	777.5
8/2/2021 3:00	8/2/2021 4:00	805.0
8/2/2021 4:00	8/2/2021 5:00	842.9
8/2/2021 5:00	8/2/2021 6:00	809.0
8/2/2021 6:00	8/2/2021 7:00	772.1
8/2/2021 7:00	8/2/2021 8:00	760.8
8/2/2021 8:00	8/2/2021 9:00	814.4
8/2/2021 9:00	8/2/2021 10:00	894.7
8/2/2021 10:00	8/2/2021 11:00	961.7
8/2/2021 11:00	8/2/2021 12:00	976.4
8/2/2021 12:00	8/2/2021 13:00	994.9
8/2/2021 13:00	8/2/2021 14:00	1005.5
8/2/2021 14:00	8/2/2021 15:00	994.1
8/2/2021 15:00	8/2/2021 16:00	1021.8
8/2/2021 16:00	8/2/2021 17:00	1072.2
8/2/2021 17:00	8/2/2021 18:00	1078.0
8/2/2021 18:00	8/2/2021 19:00	1023.8
8/2/2021 19:00	8/2/2021 20:00	1024.1
8/2/2021 20:00	8/2/2021 21:00	992.8
8/2/2021 21:00	8/2/2021 22:00	968.3
8/2/2021 22:00	8/2/2021 23:00	842.9
8/2/2021 23:00	8/3/2021 0:00	743.2
8/3/2021 0:00	8/3/2021 1:00	686.6

Start Time	End Time	ANL_MW
8/3/2021 1:00	8/3/2021 2:00	693.9
8/3/2021 2:00	8/3/2021 3:00	687.7
8/3/2021 3:00	8/3/2021 4:00	696.8
8/3/2021 4:00	8/3/2021 5:00	695.1
8/3/2021 5:00	8/3/2021 6:00	689.7
8/3/2021 6:00	8/3/2021 7:00	755.0
8/3/2021 7:00	8/3/2021 8:00	883.2
8/3/2021 8:00	8/3/2021 9:00	1004.5
8/3/2021 9:00	8/3/2021 10:00	1050.8
8/3/2021 10:00	8/3/2021 11:00	1057.3
8/3/2021 11:00	8/3/2021 12:00	1055.9
8/3/2021 12:00	8/3/2021 13:00	1041.4
8/3/2021 13:00	8/3/2021 14:00	1011.5
8/3/2021 14:00	8/3/2021 15:00	959.9
8/3/2021 15:00	8/3/2021 16:00	954.4
8/3/2021 16:00	8/3/2021 17:00	956.5
8/3/2021 17:00	8/3/2021 18:00	970.1
8/3/2021 18:00	8/3/2021 19:00	949.3
8/3/2021 19:00	8/3/2021 20:00	875.4
8/3/2021 20:00	8/3/2021 21:00	842.2
8/3/2021 21:00	8/3/2021 22:00	778.2
8/3/2021 22:00	8/3/2021 23:00	668.6
8/3/2021 23:00	8/4/2021 0:00	564.8
8/4/2021 0:00	8/4/2021 1:00	506.3
8/4/2021 1:00	8/4/2021 2:00	531.3
8/4/2021 2:00	8/4/2021 3:00	528.4
8/4/2021 3:00	8/4/2021 4:00	562.0
8/4/2021 4:00	8/4/2021 5:00	571.8
8/4/2021 5:00	8/4/2021 6:00	619.6
8/4/2021 6:00	8/4/2021 7:00	695.2
8/4/2021 7:00	8/4/2021 8:00	827.6
8/4/2021 8:00	8/4/2021 9:00	941.2
8/4/2021 9:00	8/4/2021 10:00	1040.6
8/4/2021 10:00	8/4/2021 11:00	1076.9
8/4/2021 11:00	8/4/2021 12:00	1100.5
8/4/2021 12:00	8/4/2021 13:00	1102.7
8/4/2021 13:00	8/4/2021 14:00	1102.5
8/4/2021 14:00	8/4/2021 15:00	1109.1
8/4/2021 15:00	8/4/2021 16:00	1117.3
8/4/2021 16:00	8/4/2021 17:00	1136.1
8/4/2021 17:00	8/4/2021 18:00	1126.5
8/4/2021 18:00	8/4/2021 19:00	1072.3
8/4/2021 19:00	8/4/2021 20:00	1057.2
8/4/2021 20:00	8/4/2021 21:00	1048.6
8/4/2021 21:00	8/4/2021 22:00	1011.0
8/4/2021 22:00	8/4/2021 23:00	917.9
8/4/2021 23:00	8/5/2021 0:00	843.6
8/5/2021 0:00	8/5/2021 1:00	779.3
8/5/2021 1:00	8/5/2021 2:00	749.0
8/5/2021 2:00	8/5/2021 3:00	746.8
8/5/2021 3:00	8/5/2021 4:00	749.1
8/5/2021 4:00	8/5/2021 5:00	750.8
8/5/2021 5:00	8/5/2021 6:00	768.6
8/5/2021 6:00	8/5/2021 7:00	796.9
8/5/2021 7:00	8/5/2021 8:00	854.5
8/5/2021 8:00	8/5/2021 9:00	908.8
8/5/2021 9:00	8/5/2021 10:00	966.5
8/5/2021 10:00	8/5/2021 11:00	965.2
8/5/2021 11:00	8/5/2021 12:00	975.7
8/5/2021 12:00	8/5/2021 13:00	1013.2
8/5/2021 13:00	8/5/2021 14:00	990.8
8/5/2021 14:00	8/5/2021 15:00	984.6
8/5/2021 15:00	8/5/2021 16:00	1050.3
8/5/2021 16:00	8/5/2021 17:00	1079.6
8/5/2021 17:00	8/5/2021 18:00	1029.5
8/5/2021 18:00	8/5/2021 19:00	974.9
8/5/2021 19:00	8/5/2021 20:00	928.4
8/5/2021 20:00	8/5/2021 21:00	855.3
8/5/2021 21:00	8/5/2021 22:00	896.2
8/5/2021 22:00	8/5/2021 23:00	834.2

Start Time	End Time	ANL_MW
8/5/2021 23:00	8/6/2021 0:00	749.0
8/6/2021 0:00	8/6/2021 1:00	665.0
8/6/2021 1:00	8/6/2021 2:00	628.3
8/6/2021 2:00	8/6/2021 3:00	588.3
8/6/2021 3:00	8/6/2021 4:00	577.5
8/6/2021 4:00	8/6/2021 5:00	568.1
8/6/2021 5:00	8/6/2021 6:00	579.9
8/6/2021 6:00	8/6/2021 7:00	626.6
8/6/2021 7:00	8/6/2021 8:00	748.8
8/6/2021 8:00	8/6/2021 9:00	790.6
8/6/2021 9:00	8/6/2021 10:00	860.8
8/6/2021 10:00	8/6/2021 11:00	875.2
8/6/2021 11:00	8/6/2021 12:00	901.6
8/6/2021 12:00	8/6/2021 13:00	906.9
8/6/2021 13:00	8/6/2021 14:00	885.3
8/6/2021 14:00	8/6/2021 15:00	875.7
8/6/2021 15:00	8/6/2021 16:00	892.9
8/6/2021 16:00	8/6/2021 17:00	912.3
8/6/2021 17:00	8/6/2021 18:00	930.2
8/6/2021 18:00	8/6/2021 19:00	929.1
8/6/2021 19:00	8/6/2021 20:00	919.7
8/6/2021 20:00	8/6/2021 21:00	890.0
8/6/2021 21:00	8/6/2021 22:00	881.5
8/6/2021 22:00	8/6/2021 23:00	834.8
8/6/2021 23:00	8/7/2021 0:00	834.0
8/7/2021 0:00	8/7/2021 1:00	840.8
8/7/2021 1:00	8/7/2021 2:00	799.8
8/7/2021 2:00	8/7/2021 3:00	760.8
8/7/2021 3:00	8/7/2021 4:00	743.1
8/7/2021 4:00	8/7/2021 5:00	741.7
8/7/2021 5:00	8/7/2021 6:00	771.3
8/7/2021 6:00	8/7/2021 7:00	809.7
8/7/2021 7:00	8/7/2021 8:00	885.6
8/7/2021 8:00	8/7/2021 9:00	981.6
8/7/2021 9:00	8/7/2021 10:00	1066.9
8/7/2021 10:00	8/7/2021 11:00	1098.6
8/7/2021 11:00	8/7/2021 12:00	1034.4
8/7/2021 12:00	8/7/2021 13:00	1031.2
8/7/2021 13:00	8/7/2021 14:00	1019.5
8/7/2021 14:00	8/7/2021 15:00	1019.4
8/7/2021 15:00	8/7/2021 16:00	1031.3
8/7/2021 16:00	8/7/2021 17:00	1077.5
8/7/2021 17:00	8/7/2021 18:00	1102.1
8/7/2021 18:00	8/7/2021 19:00	1054.9
8/7/2021 19:00	8/7/2021 20:00	1008.4
8/7/2021 20:00	8/7/2021 21:00	963.3
8/7/2021 21:00	8/7/2021 22:00	907.0
8/7/2021 22:00	8/7/2021 23:00	834.6
8/7/2021 23:00	8/8/2021 0:00	802.8
8/8/2021 0:00	8/8/2021 1:00	773.4
8/8/2021 1:00	8/8/2021 2:00	732.7
8/8/2021 2:00	8/8/2021 3:00	709.1
8/8/2021 3:00	8/8/2021 4:00	727.7
8/8/2021 4:00	8/8/2021 5:00	787.4
8/8/2021 5:00	8/8/2021 6:00	847.2
8/8/2021 6:00	8/8/2021 7:00	897.2
8/8/2021 7:00	8/8/2021 8:00	966.3
8/8/2021 8:00	8/8/2021 9:00	1013.1
8/8/2021 9:00	8/8/2021 10:00	1074.9
8/8/2021 10:00	8/8/2021 11:00	1114.0
8/8/2021 11:00	8/8/2021 12:00	1143.6
8/8/2021 12:00	8/8/2021 13:00	1162.5
8/8/2021 13:00	8/8/2021 14:00	1150.7
8/8/2021 14:00	8/8/2021 15:00	1121.0
8/8/2021 15:00	8/8/2021 16:00	1090.3
8/8/2021 16:00	8/8/2021 17:00	1089.3
8/8/2021 17:00	8/8/2021 18:00	1091.8
8/8/2021 18:00	8/8/2021 19:00	1078.8
8/8/2021 19:00	8/8/2021 20:00	1079.7
8/8/2021 20:00	8/8/2021 21:00	1086.1

Start Time	End Time	ANL_MW
8/8/2021 21:00	8/8/2021 22:00	1059.8
8/8/2021 22:00	8/8/2021 23:00	965.1
8/8/2021 23:00	8/9/2021 0:00	895.2
8/9/2021 0:00	8/9/2021 1:00	868.7
8/9/2021 1:00	8/9/2021 2:00	841.6
8/9/2021 2:00	8/9/2021 3:00	837.1
8/9/2021 3:00	8/9/2021 4:00	839.0
8/9/2021 4:00	8/9/2021 5:00	855.4
8/9/2021 5:00	8/9/2021 6:00	899.0
8/9/2021 6:00	8/9/2021 7:00	977.8
8/9/2021 7:00	8/9/2021 8:00	1079.2
8/9/2021 8:00	8/9/2021 9:00	1111.3
8/9/2021 9:00	8/9/2021 10:00	1161.7
8/9/2021 10:00	8/9/2021 11:00	1196.4
8/9/2021 11:00	8/9/2021 12:00	1222.6
8/9/2021 12:00	8/9/2021 13:00	1224.0
8/9/2021 13:00	8/9/2021 14:00	1208.4
8/9/2021 14:00	8/9/2021 15:00	1185.8
8/9/2021 15:00	8/9/2021 16:00	1193.4
8/9/2021 16:00	8/9/2021 17:00	1217.3
8/9/2021 17:00	8/9/2021 18:00	1229.4
8/9/2021 18:00	8/9/2021 19:00	1177.7
8/9/2021 19:00	8/9/2021 20:00	1127.2
8/9/2021 20:00	8/9/2021 21:00	1101.4
8/9/2021 21:00	8/9/2021 22:00	1136.6
8/9/2021 22:00	8/9/2021 23:00	1049.0
8/9/2021 23:00	8/10/2021 0:00	961.1
8/10/2021 0:00	8/10/2021 1:00	905.5
8/10/2021 1:00	8/10/2021 2:00	876.4
8/10/2021 2:00	8/10/2021 3:00	858.5
8/10/2021 3:00	8/10/2021 4:00	849.3
8/10/2021 4:00	8/10/2021 5:00	794.8
8/10/2021 5:00	8/10/2021 6:00	841.5
8/10/2021 6:00	8/10/2021 7:00	905.7
8/10/2021 7:00	8/10/2021 8:00	1010.4
8/10/2021 8:00	8/10/2021 9:00	1100.6
8/10/2021 9:00	8/10/2021 10:00	1168.7
8/10/2021 10:00	8/10/2021 11:00	1211.6
8/10/2021 11:00	8/10/2021 12:00	1225.6
8/10/2021 12:00	8/10/2021 13:00	1236.0
8/10/2021 13:00	8/10/2021 14:00	1240.0
8/10/2021 14:00	8/10/2021 15:00	1227.1
8/10/2021 15:00	8/10/2021 16:00	1229.1
8/10/2021 16:00	8/10/2021 17:00	1257.1
8/10/2021 17:00	8/10/2021 18:00	1265.1
8/10/2021 18:00	8/10/2021 19:00	1202.3
8/10/2021 19:00	8/10/2021 20:00	1158.7
8/10/2021 20:00	8/10/2021 21:00	1131.2
8/10/2021 21:00	8/10/2021 22:00	1108.2
8/10/2021 22:00	8/10/2021 23:00	1051.9
8/10/2021 23:00	8/11/2021 0:00	969.1
8/11/2021 0:00	8/11/2021 1:00	939.4
8/11/2021 1:00	8/11/2021 2:00	918.3
8/11/2021 2:00	8/11/2021 3:00	917.4
8/11/2021 3:00	8/11/2021 4:00	935.0
8/11/2021 4:00	8/11/2021 5:00	936.6
8/11/2021 5:00	8/11/2021 6:00	965.3
8/11/2021 6:00	8/11/2021 7:00	1037.5
8/11/2021 7:00	8/11/2021 8:00	1146.2
8/11/2021 8:00	8/11/2021 9:00	1162.2
8/11/2021 9:00	8/11/2021 10:00	1242.3
8/11/2021 10:00	8/11/2021 11:00	1281.0
8/11/2021 11:00	8/11/2021 12:00	1316.6
8/11/2021 12:00	8/11/2021 13:00	1303.2
8/11/2021 13:00	8/11/2021 14:00	1281.0
8/11/2021 14:00	8/11/2021 15:00	1273.9
8/11/2021 15:00	8/11/2021 16:00	1283.2
8/11/2021 16:00	8/11/2021 17:00	1298.1
8/11/2021 17:00	8/11/2021 18:00	1291.2
8/11/2021 18:00	8/11/2021 19:00	1245.4

Start Time	End Time	ANL_MW
8/11/2021 19:00	8/11/2021 20:00	1238.3
8/11/2021 20:00	8/11/2021 21:00	1215.4
8/11/2021 21:00	8/11/2021 22:00	1242.2
8/11/2021 22:00	8/11/2021 23:00	1134.2
8/11/2021 23:00	8/12/2021 0:00	1041.1
8/12/2021 0:00	8/12/2021 1:00	941.2
8/12/2021 1:00	8/12/2021 2:00	880.0
8/12/2021 2:00	8/12/2021 3:00	866.3
8/12/2021 3:00	8/12/2021 4:00	871.7
8/12/2021 4:00	8/12/2021 5:00	889.0
8/12/2021 5:00	8/12/2021 6:00	946.3
8/12/2021 6:00	8/12/2021 7:00	1033.7
8/12/2021 7:00	8/12/2021 8:00	1141.6
8/12/2021 8:00	8/12/2021 9:00	1168.6
8/12/2021 9:00	8/12/2021 10:00	1212.2
8/12/2021 10:00	8/12/2021 11:00	1259.7
8/12/2021 11:00	8/12/2021 12:00	1292.0
8/12/2021 12:00	8/12/2021 13:00	1334.5
8/12/2021 13:00	8/12/2021 14:00	1317.4
8/12/2021 14:00	8/12/2021 15:00	1288.1
8/12/2021 15:00	8/12/2021 16:00	1294.8
8/12/2021 16:00	8/12/2021 17:00	1317.6
8/12/2021 17:00	8/12/2021 18:00	1312.7
8/12/2021 18:00	8/12/2021 19:00	1260.7
8/12/2021 19:00	8/12/2021 20:00	1188.7
8/12/2021 20:00	8/12/2021 21:00	1138.0
8/12/2021 21:00	8/12/2021 22:00	1092.6
8/12/2021 22:00	8/12/2021 23:00	1029.3
8/12/2021 23:00	8/13/2021 0:00	1003.3
8/13/2021 0:00	8/13/2021 1:00	956.7
8/13/2021 1:00	8/13/2021 2:00	938.9
8/13/2021 2:00	8/13/2021 3:00	911.5
8/13/2021 3:00	8/13/2021 4:00	904.9
8/13/2021 4:00	8/13/2021 5:00	894.7
8/13/2021 5:00	8/13/2021 6:00	898.0
8/13/2021 6:00	8/13/2021 7:00	986.9
8/13/2021 7:00	8/13/2021 8:00	1117.3
8/13/2021 8:00	8/13/2021 9:00	1177.4
8/13/2021 9:00	8/13/2021 10:00	1245.0
8/13/2021 10:00	8/13/2021 11:00	1293.7
8/13/2021 11:00	8/13/2021 12:00	1343.9
8/13/2021 12:00	8/13/2021 13:00	1345.7
8/13/2021 13:00	8/13/2021 14:00	1339.5
8/13/2021 14:00	8/13/2021 15:00	1336.0
8/13/2021 15:00	8/13/2021 16:00	1347.3
8/13/2021 16:00	8/13/2021 17:00	1363.2
8/13/2021 17:00	8/13/2021 18:00	1362.9
8/13/2021 18:00	8/13/2021 19:00	1339.5
8/13/2021 19:00	8/13/2021 20:00	1296.0
8/13/2021 20:00	8/13/2021 21:00	1269.4
8/13/2021 21:00	8/13/2021 22:00	1311.0
8/13/2021 22:00	8/13/2021 23:00	1252.6
8/13/2021 23:00	8/14/2021 0:00	1188.2
8/14/2021 0:00	8/14/2021 1:00	1108.6
8/14/2021 1:00	8/14/2021 2:00	1056.9
8/14/2021 2:00	8/14/2021 3:00	1027.4
8/14/2021 3:00	8/14/2021 4:00	1008.8
8/14/2021 4:00	8/14/2021 5:00	954.3
8/14/2021 5:00	8/14/2021 6:00	978.4
8/14/2021 6:00	8/14/2021 7:00	1023.4
8/14/2021 7:00	8/14/2021 8:00	1078.6
8/14/2021 8:00	8/14/2021 9:00	1170.3
8/14/2021 9:00	8/14/2021 10:00	1263.0
8/14/2021 10:00	8/14/2021 11:00	1260.8
8/14/2021 11:00	8/14/2021 12:00	1288.9
8/14/2021 12:00	8/14/2021 13:00	1281.2
8/14/2021 13:00	8/14/2021 14:00	1264.4
8/14/2021 14:00	8/14/2021 15:00	1250.1
8/14/2021 15:00	8/14/2021 16:00	1236.9
8/14/2021 16:00	8/14/2021 17:00	1238.6

Start Time	End Time	ANL_MW
8/14/2021 17:00	8/14/2021 18:00	1252.9
8/14/2021 18:00	8/14/2021 19:00	1215.7
8/14/2021 19:00	8/14/2021 20:00	1180.2
8/14/2021 20:00	8/14/2021 21:00	1210.9
8/14/2021 21:00	8/14/2021 22:00	1153.7
8/14/2021 22:00	8/14/2021 23:00	1054.6
8/14/2021 23:00	8/15/2021 0:00	988.8
8/15/2021 0:00	8/15/2021 1:00	943.8
8/15/2021 1:00	8/15/2021 2:00	918.0
8/15/2021 2:00	8/15/2021 3:00	928.5
8/15/2021 3:00	8/15/2021 4:00	906.1
8/15/2021 4:00	8/15/2021 5:00	903.4
8/15/2021 5:00	8/15/2021 6:00	916.8
8/15/2021 6:00	8/15/2021 7:00	915.8
8/15/2021 7:00	8/15/2021 8:00	990.8
8/15/2021 8:00	8/15/2021 9:00	1123.7
8/15/2021 9:00	8/15/2021 10:00	1233.1
8/15/2021 10:00	8/15/2021 11:00	1224.2
8/15/2021 11:00	8/15/2021 12:00	1246.6
8/15/2021 12:00	8/15/2021 13:00	1241.3
8/15/2021 13:00	8/15/2021 14:00	1207.1
8/15/2021 14:00	8/15/2021 15:00	1170.0
8/15/2021 15:00	8/15/2021 16:00	1135.4
8/15/2021 16:00	8/15/2021 17:00	1149.1
8/15/2021 17:00	8/15/2021 18:00	1163.1
8/15/2021 18:00	8/15/2021 19:00	1175.7
8/15/2021 19:00	8/15/2021 20:00	1202.2
8/15/2021 20:00	8/15/2021 21:00	1187.3
8/15/2021 21:00	8/15/2021 22:00	1148.6
8/15/2021 22:00	8/15/2021 23:00	1042.5
8/15/2021 23:00	8/16/2021 0:00	933.4
8/16/2021 0:00	8/16/2021 1:00	844.3
8/16/2021 1:00	8/16/2021 2:00	778.5
8/16/2021 2:00	8/16/2021 3:00	769.5
8/16/2021 3:00	8/16/2021 4:00	798.4
8/16/2021 4:00	8/16/2021 5:00	829.8
8/16/2021 5:00	8/16/2021 6:00	872.6
8/16/2021 6:00	8/16/2021 7:00	933.3
8/16/2021 7:00	8/16/2021 8:00	980.5
8/16/2021 8:00	8/16/2021 9:00	1086.1
8/16/2021 9:00	8/16/2021 10:00	1167.0
8/16/2021 10:00	8/16/2021 11:00	1202.8
8/16/2021 11:00	8/16/2021 12:00	1205.7
8/16/2021 12:00	8/16/2021 13:00	1188.4
8/16/2021 13:00	8/16/2021 14:00	1173.3
8/16/2021 14:00	8/16/2021 15:00	1176.8
8/16/2021 15:00	8/16/2021 16:00	1197.6
8/16/2021 16:00	8/16/2021 17:00	1233.1
8/16/2021 17:00	8/16/2021 18:00	1266.7
8/16/2021 18:00	8/16/2021 19:00	1252.4
8/16/2021 19:00	8/16/2021 20:00	1225.5
8/16/2021 20:00	8/16/2021 21:00	1202.3
8/16/2021 21:00	8/16/2021 22:00	1228.1
8/16/2021 22:00	8/16/2021 23:00	1137.4
8/16/2021 23:00	8/17/2021 0:00	1052.5
8/17/2021 0:00	8/17/2021 1:00	960.5
8/17/2021 1:00	8/17/2021 2:00	872.6
8/17/2021 2:00	8/17/2021 3:00	808.8
8/17/2021 3:00	8/17/2021 4:00	778.4
8/17/2021 4:00	8/17/2021 5:00	785.5
8/17/2021 5:00	8/17/2021 6:00	794.4
8/17/2021 6:00	8/17/2021 7:00	866.0
8/17/2021 7:00	8/17/2021 8:00	1007.3
8/17/2021 8:00	8/17/2021 9:00	1073.4
8/17/2021 9:00	8/17/2021 10:00	1181.5
8/17/2021 10:00	8/17/2021 11:00	1221.9
8/17/2021 11:00	8/17/2021 12:00	1238.1
8/17/2021 12:00	8/17/2021 13:00	1225.1
8/17/2021 13:00	8/17/2021 14:00	1213.9
8/17/2021 14:00	8/17/2021 15:00	1202.9

Start Time	End Time	ANL_MW
8/17/2021 15:00	8/17/2021 16:00	1209.7
8/17/2021 16:00	8/17/2021 17:00	1231.0
8/17/2021 17:00	8/17/2021 18:00	1237.7
8/17/2021 18:00	8/17/2021 19:00	1224.6
8/17/2021 19:00	8/17/2021 20:00	1178.3
8/17/2021 20:00	8/17/2021 21:00	1119.3
8/17/2021 21:00	8/17/2021 22:00	1091.9
8/17/2021 22:00	8/17/2021 23:00	962.3
8/17/2021 23:00	8/18/2021 0:00	850.3
8/18/2021 0:00	8/18/2021 1:00	791.9
8/18/2021 1:00	8/18/2021 2:00	759.9
8/18/2021 2:00	8/18/2021 3:00	740.8
8/18/2021 3:00	8/18/2021 4:00	755.7
8/18/2021 4:00	8/18/2021 5:00	776.1
8/18/2021 5:00	8/18/2021 6:00	824.4
8/18/2021 6:00	8/18/2021 7:00	911.9
8/18/2021 7:00	8/18/2021 8:00	1037.8
8/18/2021 8:00	8/18/2021 9:00	1131.6
8/18/2021 9:00	8/18/2021 10:00	1161.2
8/18/2021 10:00	8/18/2021 11:00	1159.1
8/18/2021 11:00	8/18/2021 12:00	1171.5
8/18/2021 12:00	8/18/2021 13:00	1192.3
8/18/2021 13:00	8/18/2021 14:00	1176.4
8/18/2021 14:00	8/18/2021 15:00	1156.0
8/18/2021 15:00	8/18/2021 16:00	1165.5
8/18/2021 16:00	8/18/2021 17:00	1189.7
8/18/2021 17:00	8/18/2021 18:00	1198.9
8/18/2021 18:00	8/18/2021 19:00	1159.7
8/18/2021 19:00	8/18/2021 20:00	1098.9
8/18/2021 20:00	8/18/2021 21:00	1076.2
8/18/2021 21:00	8/18/2021 22:00	1016.9
8/18/2021 22:00	8/18/2021 23:00	916.8
8/18/2021 23:00	8/19/2021 0:00	883.4
8/19/2021 0:00	8/19/2021 1:00	841.4
8/19/2021 1:00	8/19/2021 2:00	783.1
8/19/2021 2:00	8/19/2021 3:00	768.6
8/19/2021 3:00	8/19/2021 4:00	770.2
8/19/2021 4:00	8/19/2021 5:00	784.9
8/19/2021 5:00	8/19/2021 6:00	808.3
8/19/2021 6:00	8/19/2021 7:00	887.9
8/19/2021 7:00	8/19/2021 8:00	1000.8
8/19/2021 8:00	8/19/2021 9:00	1071.8
8/19/2021 9:00	8/19/2021 10:00	1087.6
8/19/2021 10:00	8/19/2021 11:00	1127.3
8/19/2021 11:00	8/19/2021 12:00	1185.5
8/19/2021 12:00	8/19/2021 13:00	1195.3
8/19/2021 13:00	8/19/2021 14:00	1209.1
8/19/2021 14:00	8/19/2021 15:00	1215.5
8/19/2021 15:00	8/19/2021 16:00	1225.1
8/19/2021 16:00	8/19/2021 17:00	1264.4
8/19/2021 17:00	8/19/2021 18:00	1276.1
8/19/2021 18:00	8/19/2021 19:00	1240.3
8/19/2021 19:00	8/19/2021 20:00	1196.6
8/19/2021 20:00	8/19/2021 21:00	1154.9
8/19/2021 21:00	8/19/2021 22:00	1089.2
8/19/2021 22:00	8/19/2021 23:00	1026.2
8/19/2021 23:00	8/20/2021 0:00	995.2
8/20/2021 0:00	8/20/2021 1:00	929.1
8/20/2021 1:00	8/20/2021 2:00	901.1
8/20/2021 2:00	8/20/2021 3:00	872.1
8/20/2021 3:00	8/20/2021 4:00	847.5
8/20/2021 4:00	8/20/2021 5:00	826.1
8/20/2021 5:00	8/20/2021 6:00	855.4
8/20/2021 6:00	8/20/2021 7:00	916.6
8/20/2021 7:00	8/20/2021 8:00	1023.0
8/20/2021 8:00	8/20/2021 9:00	1113.6
8/20/2021 9:00	8/20/2021 10:00	1192.8
8/20/2021 10:00	8/20/2021 11:00	1166.9
8/20/2021 11:00	8/20/2021 12:00	1235.0
8/20/2021 12:00	8/20/2021 13:00	1244.1

Start Time	End Time	ANL_MW
8/20/2021 13:00	8/20/2021 14:00	1248.4
8/20/2021 14:00	8/20/2021 15:00	1240.8
8/20/2021 15:00	8/20/2021 16:00	1256.2
8/20/2021 16:00	8/20/2021 17:00	1260.6
8/20/2021 17:00	8/20/2021 18:00	1273.6
8/20/2021 18:00	8/20/2021 19:00	1246.5
8/20/2021 19:00	8/20/2021 20:00	1234.6
8/20/2021 20:00	8/20/2021 21:00	1225.4
8/20/2021 21:00	8/20/2021 22:00	1167.6
8/20/2021 22:00	8/20/2021 23:00	1075.2
8/20/2021 23:00	8/21/2021 0:00	1050.6
8/21/2021 0:00	8/21/2021 1:00	967.5
8/21/2021 1:00	8/21/2021 2:00	919.6
8/21/2021 2:00	8/21/2021 3:00	888.6
8/21/2021 3:00	8/21/2021 4:00	876.4
8/21/2021 4:00	8/21/2021 5:00	873.5
8/21/2021 5:00	8/21/2021 6:00	879.2
8/21/2021 6:00	8/21/2021 7:00	905.6
8/21/2021 7:00	8/21/2021 8:00	995.4
8/21/2021 8:00	8/21/2021 9:00	1108.4
8/21/2021 9:00	8/21/2021 10:00	1133.3
8/21/2021 10:00	8/21/2021 11:00	1179.2
8/21/2021 11:00	8/21/2021 12:00	1204.1
8/21/2021 12:00	8/21/2021 13:00	1211.9
8/21/2021 13:00	8/21/2021 14:00	1203.2
8/21/2021 14:00	8/21/2021 15:00	1186.8
8/21/2021 15:00	8/21/2021 16:00	1190.5
8/21/2021 16:00	8/21/2021 17:00	1211.3
8/21/2021 17:00	8/21/2021 18:00	1233.3
8/21/2021 18:00	8/21/2021 19:00	1215.6
8/21/2021 19:00	8/21/2021 20:00	1170.9
8/21/2021 20:00	8/21/2021 21:00	1159.6
8/21/2021 21:00	8/21/2021 22:00	1131.3
8/21/2021 22:00	8/21/2021 23:00	1073.6
8/21/2021 23:00	8/22/2021 0:00	1044.3
8/22/2021 0:00	8/22/2021 1:00	1013.1
8/22/2021 1:00	8/22/2021 2:00	976.6
8/22/2021 2:00	8/22/2021 3:00	950.9
8/22/2021 3:00	8/22/2021 4:00	941.0
8/22/2021 4:00	8/22/2021 5:00	936.3
8/22/2021 5:00	8/22/2021 6:00	941.4
8/22/2021 6:00	8/22/2021 7:00	946.8
8/22/2021 7:00	8/22/2021 8:00	989.6
8/22/2021 8:00	8/22/2021 9:00	1071.4
8/22/2021 9:00	8/22/2021 10:00	1153.8
8/22/2021 10:00	8/22/2021 11:00	1137.5
8/22/2021 11:00	8/22/2021 12:00	1163.3
8/22/2021 12:00	8/22/2021 13:00	1165.7
8/22/2021 13:00	8/22/2021 14:00	1153.8
8/22/2021 14:00	8/22/2021 15:00	1145.9
8/22/2021 15:00	8/22/2021 16:00	1138.3
8/22/2021 16:00	8/22/2021 17:00	1155.1
8/22/2021 17:00	8/22/2021 18:00	1169.3
8/22/2021 18:00	8/22/2021 19:00	1154.3
8/22/2021 19:00	8/22/2021 20:00	1119.6
8/22/2021 20:00	8/22/2021 21:00	1076.3
8/22/2021 21:00	8/22/2021 22:00	1047.5
8/22/2021 22:00	8/22/2021 23:00	946.8
8/22/2021 23:00	8/23/2021 0:00	862.7
8/23/2021 0:00	8/23/2021 1:00	776.9
8/23/2021 1:00	8/23/2021 2:00	682.5
8/23/2021 2:00	8/23/2021 3:00	690.3
8/23/2021 3:00	8/23/2021 4:00	712.0
8/23/2021 4:00	8/23/2021 5:00	735.6
8/23/2021 5:00	8/23/2021 6:00	778.7
8/23/2021 6:00	8/23/2021 7:00	854.0
8/23/2021 7:00	8/23/2021 8:00	951.2
8/23/2021 8:00	8/23/2021 9:00	998.0
8/23/2021 9:00	8/23/2021 10:00	1046.4
8/23/2021 10:00	8/23/2021 11:00	1110.3

Start Time	End Time	ANL_MW
8/23/2021 11:00	8/23/2021 12:00	1154.2
8/23/2021 12:00	8/23/2021 13:00	1172.9
8/23/2021 13:00	8/23/2021 14:00	1178.1
8/23/2021 14:00	8/23/2021 15:00	1159.2
8/23/2021 15:00	8/23/2021 16:00	1155.8
8/23/2021 16:00	8/23/2021 17:00	1163.2
8/23/2021 17:00	8/23/2021 18:00	1152.4
8/23/2021 18:00	8/23/2021 19:00	1107.4
8/23/2021 19:00	8/23/2021 20:00	1064.7
8/23/2021 20:00	8/23/2021 21:00	1072.2
8/23/2021 21:00	8/23/2021 22:00	1003.9
8/23/2021 22:00	8/23/2021 23:00	997.4
8/23/2021 23:00	8/24/2021 0:00	936.2
8/24/2021 0:00	8/24/2021 1:00	854.7
8/24/2021 1:00	8/24/2021 2:00	775.8
8/24/2021 2:00	8/24/2021 3:00	711.6
8/24/2021 3:00	8/24/2021 4:00	736.8
8/24/2021 4:00	8/24/2021 5:00	750.8
8/24/2021 5:00	8/24/2021 6:00	780.9
8/24/2021 6:00	8/24/2021 7:00	813.7
8/24/2021 7:00	8/24/2021 8:00	924.6
8/24/2021 8:00	8/24/2021 9:00	1030.5
8/24/2021 9:00	8/24/2021 10:00	1065.5
8/24/2021 10:00	8/24/2021 11:00	1119.8
8/24/2021 11:00	8/24/2021 12:00	1132.0
8/24/2021 12:00	8/24/2021 13:00	1112.6
8/24/2021 13:00	8/24/2021 14:00	1116.8
8/24/2021 14:00	8/24/2021 15:00	1149.2
8/24/2021 15:00	8/24/2021 16:00	1171.7
8/24/2021 16:00	8/24/2021 17:00	1242.6
8/24/2021 17:00	8/24/2021 18:00	1262.5
8/24/2021 18:00	8/24/2021 19:00	1253.0
8/24/2021 19:00	8/24/2021 20:00	1238.0
8/24/2021 20:00	8/24/2021 21:00	1241.5
8/24/2021 21:00	8/24/2021 22:00	1197.6
8/24/2021 22:00	8/24/2021 23:00	1134.6
8/24/2021 23:00	8/25/2021 0:00	1034.6
8/25/2021 0:00	8/25/2021 1:00	1014.7
8/25/2021 1:00	8/25/2021 2:00	963.5
8/25/2021 2:00	8/25/2021 3:00	909.5
8/25/2021 3:00	8/25/2021 4:00	884.9
8/25/2021 4:00	8/25/2021 5:00	880.1
8/25/2021 5:00	8/25/2021 6:00	913.6
8/25/2021 6:00	8/25/2021 7:00	992.4
8/25/2021 7:00	8/25/2021 8:00	1089.5
8/25/2021 8:00	8/25/2021 9:00	1175.4
8/25/2021 9:00	8/25/2021 10:00	1261.3
8/25/2021 10:00	8/25/2021 11:00	1310.8
8/25/2021 11:00	8/25/2021 12:00	1341.9
8/25/2021 12:00	8/25/2021 13:00	1359.0
8/25/2021 13:00	8/25/2021 14:00	1356.1
8/25/2021 14:00	8/25/2021 15:00	1343.7
8/25/2021 15:00	8/25/2021 16:00	1331.5
8/25/2021 16:00	8/25/2021 17:00	1335.7
8/25/2021 17:00	8/25/2021 18:00	1354.7
8/25/2021 18:00	8/25/2021 19:00	1320.8
8/25/2021 19:00	8/25/2021 20:00	1272.3
8/25/2021 20:00	8/25/2021 21:00	1268.2
8/25/2021 21:00	8/25/2021 22:00	1218.6
8/25/2021 22:00	8/25/2021 23:00	1130.5
8/25/2021 23:00	8/26/2021 0:00	1081.5
8/26/2021 0:00	8/26/2021 1:00	1027.7
8/26/2021 1:00	8/26/2021 2:00	988.1
8/26/2021 2:00	8/26/2021 3:00	1008.4
8/26/2021 3:00	8/26/2021 4:00	1001.4
8/26/2021 4:00	8/26/2021 5:00	1001.5
8/26/2021 5:00	8/26/2021 6:00	1035.8
8/26/2021 6:00	8/26/2021 7:00	1101.6
8/26/2021 7:00	8/26/2021 8:00	1145.9
8/26/2021 8:00	8/26/2021 9:00	1195.8

Start Time	End Time	ANL_MW
8/26/2021 9:00	8/26/2021 10:00	1229.3
8/26/2021 10:00	8/26/2021 11:00	1281.9
8/26/2021 11:00	8/26/2021 12:00	1310.6
8/26/2021 12:00	8/26/2021 13:00	1317.4
8/26/2021 13:00	8/26/2021 14:00	1316.0
8/26/2021 14:00	8/26/2021 15:00	1299.5
8/26/2021 15:00	8/26/2021 16:00	1296.5
8/26/2021 16:00	8/26/2021 17:00	1293.1
8/26/2021 17:00	8/26/2021 18:00	1282.7
8/26/2021 18:00	8/26/2021 19:00	1225.0
8/26/2021 19:00	8/26/2021 20:00	1163.0
8/26/2021 20:00	8/26/2021 21:00	1132.0
8/26/2021 21:00	8/26/2021 22:00	1089.6
8/26/2021 22:00	8/26/2021 23:00	972.4
8/26/2021 23:00	8/27/2021 0:00	909.1
8/27/2021 0:00	8/27/2021 1:00	905.6
8/27/2021 1:00	8/27/2021 2:00	879.5
8/27/2021 2:00	8/27/2021 3:00	884.0
8/27/2021 3:00	8/27/2021 4:00	846.5
8/27/2021 4:00	8/27/2021 5:00	811.8
8/27/2021 5:00	8/27/2021 6:00	834.0
8/27/2021 6:00	8/27/2021 7:00	930.0
8/27/2021 7:00	8/27/2021 8:00	1013.8
8/27/2021 8:00	8/27/2021 9:00	1167.0
8/27/2021 9:00	8/27/2021 10:00	1261.7
8/27/2021 10:00	8/27/2021 11:00	1272.4
8/27/2021 11:00	8/27/2021 12:00	1259.3
8/27/2021 12:00	8/27/2021 13:00	1279.0
8/27/2021 13:00	8/27/2021 14:00	1249.7
8/27/2021 14:00	8/27/2021 15:00	1197.0
8/27/2021 15:00	8/27/2021 16:00	1135.2
8/27/2021 16:00	8/27/2021 17:00	1103.9
8/27/2021 17:00	8/27/2021 18:00	1052.1
8/27/2021 18:00	8/27/2021 19:00	982.2
8/27/2021 19:00	8/27/2021 20:00	927.5
8/27/2021 20:00	8/27/2021 21:00	941.9
8/27/2021 21:00	8/27/2021 22:00	875.8
8/27/2021 22:00	8/27/2021 23:00	791.6
8/27/2021 23:00	8/28/2021 0:00	700.0
8/28/2021 0:00	8/28/2021 1:00	689.7
8/28/2021 1:00	8/28/2021 2:00	630.6
8/28/2021 2:00	8/28/2021 3:00	617.8
8/28/2021 3:00	8/28/2021 4:00	567.7
8/28/2021 4:00	8/28/2021 5:00	565.1
8/28/2021 5:00	8/28/2021 6:00	588.2
8/28/2021 6:00	8/28/2021 7:00	614.2
8/28/2021 7:00	8/28/2021 8:00	684.9
8/28/2021 8:00	8/28/2021 9:00	824.8
8/28/2021 9:00	8/28/2021 10:00	793.8
8/28/2021 10:00	8/28/2021 11:00	798.6
8/28/2021 11:00	8/28/2021 12:00	822.8
8/28/2021 12:00	8/28/2021 13:00	819.7
8/28/2021 13:00	8/28/2021 14:00	812.4
8/28/2021 14:00	8/28/2021 15:00	798.4
8/28/2021 15:00	8/28/2021 16:00	814.5
8/28/2021 16:00	8/28/2021 17:00	858.4
8/28/2021 17:00	8/28/2021 18:00	911.7
8/28/2021 18:00	8/28/2021 19:00	914.2
8/28/2021 19:00	8/28/2021 20:00	955.2
8/28/2021 20:00	8/28/2021 21:00	981.9
8/28/2021 21:00	8/28/2021 22:00	966.4
8/28/2021 22:00	8/28/2021 23:00	941.1
8/28/2021 23:00	8/29/2021 0:00	905.8
8/29/2021 0:00	8/29/2021 1:00	890.5
8/29/2021 1:00	8/29/2021 2:00	881.3
8/29/2021 2:00	8/29/2021 3:00	876.3
8/29/2021 3:00	8/29/2021 4:00	871.3
8/29/2021 4:00	8/29/2021 5:00	868.0
8/29/2021 5:00	8/29/2021 6:00	861.3
8/29/2021 6:00	8/29/2021 7:00	878.0

Start Time	End Time	ANL_MW
8/29/2021 7:00	8/29/2021 8:00	937.1
8/29/2021 8:00	8/29/2021 9:00	958.6
8/29/2021 9:00	8/29/2021 10:00	1037.4
8/29/2021 10:00	8/29/2021 11:00	1069.3
8/29/2021 11:00	8/29/2021 12:00	1084.4
8/29/2021 12:00	8/29/2021 13:00	1100.7
8/29/2021 13:00	8/29/2021 14:00	1096.3
8/29/2021 14:00	8/29/2021 15:00	1088.4
8/29/2021 15:00	8/29/2021 16:00	1098.5
8/29/2021 16:00	8/29/2021 17:00	1102.9
8/29/2021 17:00	8/29/2021 18:00	1127.0
8/29/2021 18:00	8/29/2021 19:00	1097.4
8/29/2021 19:00	8/29/2021 20:00	1079.4
8/29/2021 20:00	8/29/2021 21:00	1103.7
8/29/2021 21:00	8/29/2021 22:00	1055.0
8/29/2021 22:00	8/29/2021 23:00	1000.7
8/29/2021 23:00	8/30/2021 0:00	932.6
8/30/2021 0:00	8/30/2021 1:00	877.4
8/30/2021 1:00	8/30/2021 2:00	887.5
8/30/2021 2:00	8/30/2021 3:00	882.0
8/30/2021 3:00	8/30/2021 4:00	876.8
8/30/2021 4:00	8/30/2021 5:00	884.4
8/30/2021 5:00	8/30/2021 6:00	912.3
8/30/2021 6:00	8/30/2021 7:00	981.2
8/30/2021 7:00	8/30/2021 8:00	1054.6
8/30/2021 8:00	8/30/2021 9:00	1092.6
8/30/2021 9:00	8/30/2021 10:00	1055.5
8/30/2021 10:00	8/30/2021 11:00	1055.0
8/30/2021 11:00	8/30/2021 12:00	1075.6
8/30/2021 12:00	8/30/2021 13:00	1057.5
8/30/2021 13:00	8/30/2021 14:00	1025.2
8/30/2021 14:00	8/30/2021 15:00	981.2
8/30/2021 15:00	8/30/2021 16:00	984.2
8/30/2021 16:00	8/30/2021 17:00	1015.6
8/30/2021 17:00	8/30/2021 18:00	1043.4
8/30/2021 18:00	8/30/2021 19:00	1016.2
8/30/2021 19:00	8/30/2021 20:00	961.3
8/30/2021 20:00	8/30/2021 21:00	932.0
8/30/2021 21:00	8/30/2021 22:00	848.5
8/30/2021 22:00	8/30/2021 23:00	756.6
8/30/2021 23:00	8/31/2021 0:00	710.4
8/31/2021 0:00	8/31/2021 1:00	719.7
8/31/2021 1:00	8/31/2021 2:00	711.9
8/31/2021 2:00	8/31/2021 3:00	733.7
8/31/2021 3:00	8/31/2021 4:00	762.4
8/31/2021 4:00	8/31/2021 5:00	806.2
8/31/2021 5:00	8/31/2021 6:00	889.6
8/31/2021 6:00	8/31/2021 7:00	1004.0
8/31/2021 7:00	8/31/2021 8:00	1080.4
8/31/2021 8:00	8/31/2021 9:00	1175.6
8/31/2021 9:00	8/31/2021 10:00	1230.0
8/31/2021 10:00	8/31/2021 11:00	1262.7
8/31/2021 11:00	8/31/2021 12:00	1253.1
8/31/2021 12:00	8/31/2021 13:00	1238.9
8/31/2021 13:00	8/31/2021 14:00	1190.8
8/31/2021 14:00	8/31/2021 15:00	1137.6
8/31/2021 15:00	8/31/2021 16:00	1108.2
8/31/2021 16:00	8/31/2021 17:00	1122.0
8/31/2021 17:00	8/31/2021 18:00	1148.4
8/31/2021 18:00	8/31/2021 19:00	1139.2
8/31/2021 19:00	8/31/2021 20:00	1095.5
8/31/2021 20:00	8/31/2021 21:00	1059.4
8/31/2021 21:00	8/31/2021 22:00	968.0
8/31/2021 22:00	8/31/2021 23:00	867.3
8/31/2021 23:00	9/1/2021 0:00	806.9
9/1/2021 0:00	9/1/2021 1:00	816.8
9/1/2021 1:00	9/1/2021 2:00	801.4
9/1/2021 2:00	9/1/2021 3:00	789.0
9/1/2021 3:00	9/1/2021 4:00	790.1
9/1/2021 4:00	9/1/2021 5:00	835.5

Start Time	End Time	ANL_MW
9/1/2021 5:00	9/1/2021 6:00	850.7
9/1/2021 6:00	9/1/2021 7:00	934.9
9/1/2021 7:00	9/1/2021 8:00	1028.2
9/1/2021 8:00	9/1/2021 9:00	1116.6
9/1/2021 9:00	9/1/2021 10:00	1178.0
9/1/2021 10:00	9/1/2021 11:00	1214.7
9/1/2021 11:00	9/1/2021 12:00	1222.1
9/1/2021 12:00	9/1/2021 13:00	1216.9
9/1/2021 13:00	9/1/2021 14:00	1180.8
9/1/2021 14:00	9/1/2021 15:00	1146.4
9/1/2021 15:00	9/1/2021 16:00	1132.3
9/1/2021 16:00	9/1/2021 17:00	1152.0
9/1/2021 17:00	9/1/2021 18:00	1203.0
9/1/2021 18:00	9/1/2021 19:00	1197.2
9/1/2021 19:00	9/1/2021 20:00	1174.3
9/1/2021 20:00	9/1/2021 21:00	1150.3
9/1/2021 21:00	9/1/2021 22:00	1099.0
9/1/2021 22:00	9/1/2021 23:00	1006.8
9/1/2021 23:00	9/2/2021 0:00	943.0
9/2/2021 0:00	9/2/2021 1:00	961.6
9/2/2021 1:00	9/2/2021 2:00	935.0
9/2/2021 2:00	9/2/2021 3:00	928.5
9/2/2021 3:00	9/2/2021 4:00	931.6
9/2/2021 4:00	9/2/2021 5:00	930.3
9/2/2021 5:00	9/2/2021 6:00	877.1
9/2/2021 6:00	9/2/2021 7:00	908.0
9/2/2021 7:00	9/2/2021 8:00	973.8
9/2/2021 8:00	9/2/2021 9:00	1006.3
9/2/2021 9:00	9/2/2021 10:00	1038.3
9/2/2021 10:00	9/2/2021 11:00	1065.0
9/2/2021 11:00	9/2/2021 12:00	1065.4
9/2/2021 12:00	9/2/2021 13:00	1030.6
9/2/2021 13:00	9/2/2021 14:00	931.4
9/2/2021 14:00	9/2/2021 15:00	899.7
9/2/2021 15:00	9/2/2021 16:00	906.2
9/2/2021 16:00	9/2/2021 17:00	882.3
9/2/2021 17:00	9/2/2021 18:00	890.4
9/2/2021 18:00	9/2/2021 19:00	811.1
9/2/2021 19:00	9/2/2021 20:00	740.5
9/2/2021 20:00	9/2/2021 21:00	781.7
9/2/2021 21:00	9/2/2021 22:00	797.5
9/2/2021 22:00	9/2/2021 23:00	742.0
9/2/2021 23:00	9/3/2021 0:00	648.1
9/3/2021 0:00	9/3/2021 1:00	581.4
9/3/2021 1:00	9/3/2021 2:00	532.5
9/3/2021 2:00	9/3/2021 3:00	526.1
9/3/2021 3:00	9/3/2021 4:00	515.8
9/3/2021 4:00	9/3/2021 5:00	516.6
9/3/2021 5:00	9/3/2021 6:00	548.0
9/3/2021 6:00	9/3/2021 7:00	594.8
9/3/2021 7:00	9/3/2021 8:00	696.1
9/3/2021 8:00	9/3/2021 9:00	819.3
9/3/2021 9:00	9/3/2021 10:00	916.7
9/3/2021 10:00	9/3/2021 11:00	979.0
9/3/2021 11:00	9/3/2021 12:00	1018.2
9/3/2021 12:00	9/3/2021 13:00	1015.6
9/3/2021 13:00	9/3/2021 14:00	985.4
9/3/2021 14:00	9/3/2021 15:00	994.5
9/3/2021 15:00	9/3/2021 16:00	1019.3
9/3/2021 16:00	9/3/2021 17:00	1066.8
9/3/2021 17:00	9/3/2021 18:00	1081.2
9/3/2021 18:00	9/3/2021 19:00	1048.4
9/3/2021 19:00	9/3/2021 20:00	1042.5
9/3/2021 20:00	9/3/2021 21:00	1035.1
9/3/2021 21:00	9/3/2021 22:00	979.2
9/3/2021 22:00	9/3/2021 23:00	916.9
9/3/2021 23:00	9/4/2021 0:00	896.1
9/4/2021 0:00	9/4/2021 1:00	859.0
9/4/2021 1:00	9/4/2021 2:00	826.9
9/4/2021 2:00	9/4/2021 3:00	817.4

Start Time	End Time	ANL_MW
9/4/2021 3:00	9/4/2021 4:00	795.6
9/4/2021 4:00	9/4/2021 5:00	769.5
9/4/2021 5:00	9/4/2021 6:00	798.9
9/4/2021 6:00	9/4/2021 7:00	805.3
9/4/2021 7:00	9/4/2021 8:00	863.0
9/4/2021 8:00	9/4/2021 9:00	910.6
9/4/2021 9:00	9/4/2021 10:00	888.4
9/4/2021 10:00	9/4/2021 11:00	868.0
9/4/2021 11:00	9/4/2021 12:00	862.2
9/4/2021 12:00	9/4/2021 13:00	859.3
9/4/2021 13:00	9/4/2021 14:00	829.0
9/4/2021 14:00	9/4/2021 15:00	796.2
9/4/2021 15:00	9/4/2021 16:00	788.0
9/4/2021 16:00	9/4/2021 17:00	795.6
9/4/2021 17:00	9/4/2021 18:00	823.6
9/4/2021 18:00	9/4/2021 19:00	814.2
9/4/2021 19:00	9/4/2021 20:00	812.1
9/4/2021 20:00	9/4/2021 21:00	839.1
9/4/2021 21:00	9/4/2021 22:00	792.9
9/4/2021 22:00	9/4/2021 23:00	754.5
9/4/2021 23:00	9/5/2021 0:00	723.1
9/5/2021 0:00	9/5/2021 1:00	687.4
9/5/2021 1:00	9/5/2021 2:00	690.3
9/5/2021 2:00	9/5/2021 3:00	712.3
9/5/2021 3:00	9/5/2021 4:00	692.2
9/5/2021 4:00	9/5/2021 5:00	665.4
9/5/2021 5:00	9/5/2021 6:00	656.0
9/5/2021 6:00	9/5/2021 7:00	710.5
9/5/2021 7:00	9/5/2021 8:00	781.9
9/5/2021 8:00	9/5/2021 9:00	868.2
9/5/2021 9:00	9/5/2021 10:00	926.3
9/5/2021 10:00	9/5/2021 11:00	965.5
9/5/2021 11:00	9/5/2021 12:00	995.7
9/5/2021 12:00	9/5/2021 13:00	1008.1
9/5/2021 13:00	9/5/2021 14:00	999.1
9/5/2021 14:00	9/5/2021 15:00	988.3
9/5/2021 15:00	9/5/2021 16:00	1002.3
9/5/2021 16:00	9/5/2021 17:00	1045.8
9/5/2021 17:00	9/5/2021 18:00	1064.0
9/5/2021 18:00	9/5/2021 19:00	1051.2
9/5/2021 19:00	9/5/2021 20:00	1039.2
9/5/2021 20:00	9/5/2021 21:00	1025.6
9/5/2021 21:00	9/5/2021 22:00	951.8
9/5/2021 22:00	9/5/2021 23:00	855.6
9/5/2021 23:00	9/6/2021 0:00	775.1
9/6/2021 0:00	9/6/2021 1:00	674.8
9/6/2021 1:00	9/6/2021 2:00	634.5
9/6/2021 2:00	9/6/2021 3:00	602.2
9/6/2021 3:00	9/6/2021 4:00	581.1
9/6/2021 4:00	9/6/2021 5:00	578.9
9/6/2021 5:00	9/6/2021 6:00	600.9
9/6/2021 6:00	9/6/2021 7:00	649.1
9/6/2021 7:00	9/6/2021 8:00	709.6
9/6/2021 8:00	9/6/2021 9:00	734.0
9/6/2021 9:00	9/6/2021 10:00	742.2
9/6/2021 10:00	9/6/2021 11:00	769.2
9/6/2021 11:00	9/6/2021 12:00	815.9
9/6/2021 12:00	9/6/2021 13:00	794.2
9/6/2021 13:00	9/6/2021 14:00	764.5
9/6/2021 14:00	9/6/2021 15:00	754.3
9/6/2021 15:00	9/6/2021 16:00	728.5
9/6/2021 16:00	9/6/2021 17:00	787.2
9/6/2021 17:00	9/6/2021 18:00	812.1
9/6/2021 18:00	9/6/2021 19:00	765.5
9/6/2021 19:00	9/6/2021 20:00	742.5
9/6/2021 20:00	9/6/2021 21:00	741.5
9/6/2021 21:00	9/6/2021 22:00	695.4
9/6/2021 22:00	9/6/2021 23:00	680.1
9/6/2021 23:00	9/7/2021 0:00	623.2
9/7/2021 0:00	9/7/2021 1:00	600.1

Start Time	End Time	ANL_MW
9/7/2021 1:00	9/7/2021 2:00	586.4
9/7/2021 2:00	9/7/2021 3:00	563.3
9/7/2021 3:00	9/7/2021 4:00	560.9
9/7/2021 4:00	9/7/2021 5:00	569.4
9/7/2021 5:00	9/7/2021 6:00	591.9
9/7/2021 6:00	9/7/2021 7:00	670.1
9/7/2021 7:00	9/7/2021 8:00	786.9
9/7/2021 8:00	9/7/2021 9:00	851.1
9/7/2021 9:00	9/7/2021 10:00	878.8
9/7/2021 10:00	9/7/2021 11:00	890.9
9/7/2021 11:00	9/7/2021 12:00	868.3
9/7/2021 12:00	9/7/2021 13:00	851.1
9/7/2021 13:00	9/7/2021 14:00	818.6
9/7/2021 14:00	9/7/2021 15:00	819.5
9/7/2021 15:00	9/7/2021 16:00	855.6
9/7/2021 16:00	9/7/2021 17:00	924.8
9/7/2021 17:00	9/7/2021 18:00	958.7
9/7/2021 18:00	9/7/2021 19:00	957.6
9/7/2021 19:00	9/7/2021 20:00	946.5
9/7/2021 20:00	9/7/2021 21:00	899.9
9/7/2021 21:00	9/7/2021 22:00	839.2
9/7/2021 22:00	9/7/2021 23:00	778.8
9/7/2021 23:00	9/8/2021 0:00	778.8
9/8/2021 0:00	9/8/2021 1:00	756.8
9/8/2021 1:00	9/8/2021 2:00	722.9
9/8/2021 2:00	9/8/2021 3:00	691.4
9/8/2021 3:00	9/8/2021 4:00	733.3
9/8/2021 4:00	9/8/2021 5:00	800.2
9/8/2021 5:00	9/8/2021 6:00	833.8
9/8/2021 6:00	9/8/2021 7:00	938.2
9/8/2021 7:00	9/8/2021 8:00	1005.5
9/8/2021 8:00	9/8/2021 9:00	1052.1
9/8/2021 9:00	9/8/2021 10:00	1091.5
9/8/2021 10:00	9/8/2021 11:00	1115.5
9/8/2021 11:00	9/8/2021 12:00	1096.6
9/8/2021 12:00	9/8/2021 13:00	1084.1
9/8/2021 13:00	9/8/2021 14:00	1076.0
9/8/2021 14:00	9/8/2021 15:00	1066.7
9/8/2021 15:00	9/8/2021 16:00	1084.4
9/8/2021 16:00	9/8/2021 17:00	1115.4
9/8/2021 17:00	9/8/2021 18:00	1117.6
9/8/2021 18:00	9/8/2021 19:00	1044.5
9/8/2021 19:00	9/8/2021 20:00	1002.0
9/8/2021 20:00	9/8/2021 21:00	991.4
9/8/2021 21:00	9/8/2021 22:00	918.9
9/8/2021 22:00	9/8/2021 23:00	888.0
9/8/2021 23:00	9/9/2021 0:00	873.9
9/9/2021 0:00	9/9/2021 1:00	775.1
9/9/2021 1:00	9/9/2021 2:00	748.3
9/9/2021 2:00	9/9/2021 3:00	662.6
9/9/2021 3:00	9/9/2021 4:00	632.8
9/9/2021 4:00	9/9/2021 5:00	667.4
9/9/2021 5:00	9/9/2021 6:00	721.2
9/9/2021 6:00	9/9/2021 7:00	797.2
9/9/2021 7:00	9/9/2021 8:00	867.5
9/9/2021 8:00	9/9/2021 9:00	886.6
9/9/2021 9:00	9/9/2021 10:00	895.8
9/9/2021 10:00	9/9/2021 11:00	859.8
9/9/2021 11:00	9/9/2021 12:00	845.3
9/9/2021 12:00	9/9/2021 13:00	792.4
9/9/2021 13:00	9/9/2021 14:00	773.7
9/9/2021 14:00	9/9/2021 15:00	782.8
9/9/2021 15:00	9/9/2021 16:00	824.0
9/9/2021 16:00	9/9/2021 17:00	961.7
9/9/2021 17:00	9/9/2021 18:00	1011.1
9/9/2021 18:00	9/9/2021 19:00	997.1
9/9/2021 19:00	9/9/2021 20:00	986.7
9/9/2021 20:00	9/9/2021 21:00	1029.1
9/9/2021 21:00	9/9/2021 22:00	991.8
9/9/2021 22:00	9/9/2021 23:00	915.0

Start Time	End Time	ANL_MW
9/9/2021 23:00	9/10/2021 0:00	838.8
9/10/2021 0:00	9/10/2021 1:00	789.4
9/10/2021 1:00	9/10/2021 2:00	739.4
9/10/2021 2:00	9/10/2021 3:00	728.7
9/10/2021 3:00	9/10/2021 4:00	659.1
9/10/2021 4:00	9/10/2021 5:00	653.0
9/10/2021 5:00	9/10/2021 6:00	655.0
9/10/2021 6:00	9/10/2021 7:00	727.4
9/10/2021 7:00	9/10/2021 8:00	795.3
9/10/2021 8:00	9/10/2021 9:00	856.5
9/10/2021 9:00	9/10/2021 10:00	918.3
9/10/2021 10:00	9/10/2021 11:00	959.8
9/10/2021 11:00	9/10/2021 12:00	968.3
9/10/2021 12:00	9/10/2021 13:00	995.1
9/10/2021 13:00	9/10/2021 14:00	1068.0
9/10/2021 14:00	9/10/2021 15:00	1128.7
9/10/2021 15:00	9/10/2021 16:00	1157.8
9/10/2021 16:00	9/10/2021 17:00	1163.5
9/10/2021 17:00	9/10/2021 18:00	1121.9
9/10/2021 18:00	9/10/2021 19:00	1015.8
9/10/2021 19:00	9/10/2021 20:00	955.1
9/10/2021 20:00	9/10/2021 21:00	942.6
9/10/2021 21:00	9/10/2021 22:00	926.6
9/10/2021 22:00	9/10/2021 23:00	833.2
9/10/2021 23:00	9/11/2021 0:00	763.7
9/11/2021 0:00	9/11/2021 1:00	696.3
9/11/2021 1:00	9/11/2021 2:00	678.8
9/11/2021 2:00	9/11/2021 3:00	658.1
9/11/2021 3:00	9/11/2021 4:00	637.7
9/11/2021 4:00	9/11/2021 5:00	643.4
9/11/2021 5:00	9/11/2021 6:00	654.5
9/11/2021 6:00	9/11/2021 7:00	672.5
9/11/2021 7:00	9/11/2021 8:00	729.3
9/11/2021 8:00	9/11/2021 9:00	800.7
9/11/2021 9:00	9/11/2021 10:00	825.7
9/11/2021 10:00	9/11/2021 11:00	818.9
9/11/2021 11:00	9/11/2021 12:00	846.7
9/11/2021 12:00	9/11/2021 13:00	821.5
9/11/2021 13:00	9/11/2021 14:00	796.7
9/11/2021 14:00	9/11/2021 15:00	768.4
9/11/2021 15:00	9/11/2021 16:00	796.7
9/11/2021 16:00	9/11/2021 17:00	858.5
9/11/2021 17:00	9/11/2021 18:00	901.1
9/11/2021 18:00	9/11/2021 19:00	896.4
9/11/2021 19:00	9/11/2021 20:00	877.2
9/11/2021 20:00	9/11/2021 21:00	841.9
9/11/2021 21:00	9/11/2021 22:00	765.4
9/11/2021 22:00	9/11/2021 23:00	766.8
9/11/2021 23:00	9/12/2021 0:00	756.7
9/12/2021 0:00	9/12/2021 1:00	715.8
9/12/2021 1:00	9/12/2021 2:00	698.7
9/12/2021 2:00	9/12/2021 3:00	674.9
9/12/2021 3:00	9/12/2021 4:00	633.0
9/12/2021 4:00	9/12/2021 5:00	620.8
9/12/2021 5:00	9/12/2021 6:00	633.0
9/12/2021 6:00	9/12/2021 7:00	661.6
9/12/2021 7:00	9/12/2021 8:00	703.4
9/12/2021 8:00	9/12/2021 9:00	790.4
9/12/2021 9:00	9/12/2021 10:00	844.8
9/12/2021 10:00	9/12/2021 11:00	877.6
9/12/2021 11:00	9/12/2021 12:00	823.8
9/12/2021 12:00	9/12/2021 13:00	711.1
9/12/2021 13:00	9/12/2021 14:00	651.9
9/12/2021 14:00	9/12/2021 15:00	617.9
9/12/2021 15:00	9/12/2021 16:00	616.6
9/12/2021 16:00	9/12/2021 17:00	660.9
9/12/2021 17:00	9/12/2021 18:00	696.0
9/12/2021 18:00	9/12/2021 19:00	734.9
9/12/2021 19:00	9/12/2021 20:00	744.7
9/12/2021 20:00	9/12/2021 21:00	747.1

Start Time	End Time	ANL_MW
9/12/2021 21:00	9/12/2021 22:00	706.9
9/12/2021 22:00	9/12/2021 23:00	671.4
9/12/2021 23:00	9/13/2021 0:00	665.3
9/13/2021 0:00	9/13/2021 1:00	668.1
9/13/2021 1:00	9/13/2021 2:00	708.8
9/13/2021 2:00	9/13/2021 3:00	718.6
9/13/2021 3:00	9/13/2021 4:00	732.9
9/13/2021 4:00	9/13/2021 5:00	767.6
9/13/2021 5:00	9/13/2021 6:00	811.1
9/13/2021 6:00	9/13/2021 7:00	898.6
9/13/2021 7:00	9/13/2021 8:00	1020.4
9/13/2021 8:00	9/13/2021 9:00	1052.4
9/13/2021 9:00	9/13/2021 10:00	1078.6
9/13/2021 10:00	9/13/2021 11:00	1098.0
9/13/2021 11:00	9/13/2021 12:00	1108.1
9/13/2021 12:00	9/13/2021 13:00	1102.6
9/13/2021 13:00	9/13/2021 14:00	1077.2
9/13/2021 14:00	9/13/2021 15:00	1037.2
9/13/2021 15:00	9/13/2021 16:00	1029.9
9/13/2021 16:00	9/13/2021 17:00	1038.5
9/13/2021 17:00	9/13/2021 18:00	1048.9
9/13/2021 18:00	9/13/2021 19:00	1068.2
9/13/2021 19:00	9/13/2021 20:00	1057.6
9/13/2021 20:00	9/13/2021 21:00	1021.0
9/13/2021 21:00	9/13/2021 22:00	985.5
9/13/2021 22:00	9/13/2021 23:00	861.3
9/13/2021 23:00	9/14/2021 0:00	782.5
9/14/2021 0:00	9/14/2021 1:00	746.1
9/14/2021 1:00	9/14/2021 2:00	717.1
9/14/2021 2:00	9/14/2021 3:00	709.6
9/14/2021 3:00	9/14/2021 4:00	707.6
9/14/2021 4:00	9/14/2021 5:00	725.3
9/14/2021 5:00	9/14/2021 6:00	759.1
9/14/2021 6:00	9/14/2021 7:00	840.3
9/14/2021 7:00	9/14/2021 8:00	970.9
9/14/2021 8:00	9/14/2021 9:00	1068.6
9/14/2021 9:00	9/14/2021 10:00	1064.2
9/14/2021 10:00	9/14/2021 11:00	1060.1
9/14/2021 11:00	9/14/2021 12:00	1058.0
9/14/2021 12:00	9/14/2021 13:00	981.0
9/14/2021 13:00	9/14/2021 14:00	946.6
9/14/2021 14:00	9/14/2021 15:00	924.5
9/14/2021 15:00	9/14/2021 16:00	951.1
9/14/2021 16:00	9/14/2021 17:00	1006.9
9/14/2021 17:00	9/14/2021 18:00	1026.5
9/14/2021 18:00	9/14/2021 19:00	1009.5
9/14/2021 19:00	9/14/2021 20:00	1076.6
9/14/2021 20:00	9/14/2021 21:00	1083.0
9/14/2021 21:00	9/14/2021 22:00	1021.3
9/14/2021 22:00	9/14/2021 23:00	951.8
9/14/2021 23:00	9/15/2021 0:00	903.2
9/15/2021 0:00	9/15/2021 1:00	850.0
9/15/2021 1:00	9/15/2021 2:00	819.2
9/15/2021 2:00	9/15/2021 3:00	720.2
9/15/2021 3:00	9/15/2021 4:00	704.4
9/15/2021 4:00	9/15/2021 5:00	677.7
9/15/2021 5:00	9/15/2021 6:00	671.6
9/15/2021 6:00	9/15/2021 7:00	734.2
9/15/2021 7:00	9/15/2021 8:00	800.5
9/15/2021 8:00	9/15/2021 9:00	874.3
9/15/2021 9:00	9/15/2021 10:00	919.7
9/15/2021 10:00	9/15/2021 11:00	938.4
9/15/2021 11:00	9/15/2021 12:00	877.3
9/15/2021 12:00	9/15/2021 13:00	824.4
9/15/2021 13:00	9/15/2021 14:00	792.0
9/15/2021 14:00	9/15/2021 15:00	738.9
9/15/2021 15:00	9/15/2021 16:00	729.5
9/15/2021 16:00	9/15/2021 17:00	766.2
9/15/2021 17:00	9/15/2021 18:00	795.4
9/15/2021 18:00	9/15/2021 19:00	767.4

Start Time	End Time	ANL_MW
9/15/2021 19:00	9/15/2021 20:00	792.2
9/15/2021 20:00	9/15/2021 21:00	773.7
9/15/2021 21:00	9/15/2021 22:00	630.9
9/15/2021 22:00	9/15/2021 23:00	615.2
9/15/2021 23:00	9/16/2021 0:00	586.2
9/16/2021 0:00	9/16/2021 1:00	544.8
9/16/2021 1:00	9/16/2021 2:00	514.8
9/16/2021 2:00	9/16/2021 3:00	481.5
9/16/2021 3:00	9/16/2021 4:00	520.3
9/16/2021 4:00	9/16/2021 5:00	609.2
9/16/2021 5:00	9/16/2021 6:00	641.1
9/16/2021 6:00	9/16/2021 7:00	761.8
9/16/2021 7:00	9/16/2021 8:00	927.8
9/16/2021 8:00	9/16/2021 9:00	986.7
9/16/2021 9:00	9/16/2021 10:00	1031.0
9/16/2021 10:00	9/16/2021 11:00	1047.2
9/16/2021 11:00	9/16/2021 12:00	1076.6
9/16/2021 12:00	9/16/2021 13:00	1098.6
9/16/2021 13:00	9/16/2021 14:00	1095.2
9/16/2021 14:00	9/16/2021 15:00	1084.9
9/16/2021 15:00	9/16/2021 16:00	1107.7
9/16/2021 16:00	9/16/2021 17:00	1141.5
9/16/2021 17:00	9/16/2021 18:00	1148.1
9/16/2021 18:00	9/16/2021 19:00	1130.6
9/16/2021 19:00	9/16/2021 20:00	1136.3
9/16/2021 20:00	9/16/2021 21:00	1142.2
9/16/2021 21:00	9/16/2021 22:00	1089.4
9/16/2021 22:00	9/16/2021 23:00	996.0
9/16/2021 23:00	9/17/2021 0:00	942.7
9/17/2021 0:00	9/17/2021 1:00	929.7
9/17/2021 1:00	9/17/2021 2:00	912.8
9/17/2021 2:00	9/17/2021 3:00	904.1
9/17/2021 3:00	9/17/2021 4:00	902.3
9/17/2021 4:00	9/17/2021 5:00	885.7
9/17/2021 5:00	9/17/2021 6:00	890.6
9/17/2021 6:00	9/17/2021 7:00	917.2
9/17/2021 7:00	9/17/2021 8:00	1037.1
9/17/2021 8:00	9/17/2021 9:00	1071.9
9/17/2021 9:00	9/17/2021 10:00	1132.6
9/17/2021 10:00	9/17/2021 11:00	1123.9
9/17/2021 11:00	9/17/2021 12:00	1124.4
9/17/2021 12:00	9/17/2021 13:00	1127.6
9/17/2021 13:00	9/17/2021 14:00	1102.7
9/17/2021 14:00	9/17/2021 15:00	1071.1
9/17/2021 15:00	9/17/2021 16:00	1068.9
9/17/2021 16:00	9/17/2021 17:00	1058.7
9/17/2021 17:00	9/17/2021 18:00	1048.4
9/17/2021 18:00	9/17/2021 19:00	1016.6
9/17/2021 19:00	9/17/2021 20:00	995.8
9/17/2021 20:00	9/17/2021 21:00	1002.4
9/17/2021 21:00	9/17/2021 22:00	965.7
9/17/2021 22:00	9/17/2021 23:00	934.8
9/17/2021 23:00	9/18/2021 0:00	875.4
9/18/2021 0:00	9/18/2021 1:00	823.2
9/18/2021 1:00	9/18/2021 2:00	781.7
9/18/2021 2:00	9/18/2021 3:00	765.7
9/18/2021 3:00	9/18/2021 4:00	774.5
9/18/2021 4:00	9/18/2021 5:00	806.8
9/18/2021 5:00	9/18/2021 6:00	837.9
9/18/2021 6:00	9/18/2021 7:00	888.9
9/18/2021 7:00	9/18/2021 8:00	951.1
9/18/2021 8:00	9/18/2021 9:00	958.8
9/18/2021 9:00	9/18/2021 10:00	1022.2
9/18/2021 10:00	9/18/2021 11:00	1053.4
9/18/2021 11:00	9/18/2021 12:00	1064.6
9/18/2021 12:00	9/18/2021 13:00	1078.4
9/18/2021 13:00	9/18/2021 14:00	1052.6
9/18/2021 14:00	9/18/2021 15:00	1035.0
9/18/2021 15:00	9/18/2021 16:00	1049.1
9/18/2021 16:00	9/18/2021 17:00	1098.3

Start Time	End Time	ANL_MW
9/18/2021 17:00	9/18/2021 18:00	1148.8
9/18/2021 18:00	9/18/2021 19:00	1165.0
9/18/2021 19:00	9/18/2021 20:00	1178.8
9/18/2021 20:00	9/18/2021 21:00	1147.1
9/18/2021 21:00	9/18/2021 22:00	1071.8
9/18/2021 22:00	9/18/2021 23:00	1011.9
9/18/2021 23:00	9/19/2021 0:00	958.5
9/19/2021 0:00	9/19/2021 1:00	908.0
9/19/2021 1:00	9/19/2021 2:00	878.4
9/19/2021 2:00	9/19/2021 3:00	712.5
9/19/2021 3:00	9/19/2021 4:00	646.2
9/19/2021 4:00	9/19/2021 5:00	611.3
9/19/2021 5:00	9/19/2021 6:00	643.4
9/19/2021 6:00	9/19/2021 7:00	650.8
9/19/2021 7:00	9/19/2021 8:00	656.9
9/19/2021 8:00	9/19/2021 9:00	704.8
9/19/2021 9:00	9/19/2021 10:00	766.6
9/19/2021 10:00	9/19/2021 11:00	798.6
9/19/2021 11:00	9/19/2021 12:00	787.4
9/19/2021 12:00	9/19/2021 13:00	769.9
9/19/2021 13:00	9/19/2021 14:00	745.4
9/19/2021 14:00	9/19/2021 15:00	714.4
9/19/2021 15:00	9/19/2021 16:00	706.1
9/19/2021 16:00	9/19/2021 17:00	740.4
9/19/2021 17:00	9/19/2021 18:00	769.2
9/19/2021 18:00	9/19/2021 19:00	777.1
9/19/2021 19:00	9/19/2021 20:00	856.5
9/19/2021 20:00	9/19/2021 21:00	836.9
9/19/2021 21:00	9/19/2021 22:00	763.4
9/19/2021 22:00	9/19/2021 23:00	682.4
9/19/2021 23:00	9/20/2021 0:00	650.1
9/20/2021 0:00	9/20/2021 1:00	619.8
9/20/2021 1:00	9/20/2021 2:00	596.9
9/20/2021 2:00	9/20/2021 3:00	603.3
9/20/2021 3:00	9/20/2021 4:00	616.4
9/20/2021 4:00	9/20/2021 5:00	611.8
9/20/2021 5:00	9/20/2021 6:00	671.8
9/20/2021 6:00	9/20/2021 7:00	791.4
9/20/2021 7:00	9/20/2021 8:00	884.8
9/20/2021 8:00	9/20/2021 9:00	938.9
9/20/2021 9:00	9/20/2021 10:00	1017.3
9/20/2021 10:00	9/20/2021 11:00	1034.8
9/20/2021 11:00	9/20/2021 12:00	1064.4
9/20/2021 12:00	9/20/2021 13:00	1083.2
9/20/2021 13:00	9/20/2021 14:00	1086.8
9/20/2021 14:00	9/20/2021 15:00	1093.6
9/20/2021 15:00	9/20/2021 16:00	1110.3
9/20/2021 16:00	9/20/2021 17:00	1152.7
9/20/2021 17:00	9/20/2021 18:00	1162.2
9/20/2021 18:00	9/20/2021 19:00	1146.9
9/20/2021 19:00	9/20/2021 20:00	1165.3
9/20/2021 20:00	9/20/2021 21:00	1153.5
9/20/2021 21:00	9/20/2021 22:00	1090.7
9/20/2021 22:00	9/20/2021 23:00	1005.7
9/20/2021 23:00	9/21/2021 0:00	1007.8
9/21/2021 0:00	9/21/2021 1:00	933.0
9/21/2021 1:00	9/21/2021 2:00	866.4
9/21/2021 2:00	9/21/2021 3:00	822.7
9/21/2021 3:00	9/21/2021 4:00	786.3
9/21/2021 4:00	9/21/2021 5:00	760.6
9/21/2021 5:00	9/21/2021 6:00	806.7
9/21/2021 6:00	9/21/2021 7:00	933.9
9/21/2021 7:00	9/21/2021 8:00	1056.9
9/21/2021 8:00	9/21/2021 9:00	1111.3
9/21/2021 9:00	9/21/2021 10:00	1166.0
9/21/2021 10:00	9/21/2021 11:00	1144.0
9/21/2021 11:00	9/21/2021 12:00	1123.7
9/21/2021 12:00	9/21/2021 13:00	1107.0
9/21/2021 13:00	9/21/2021 14:00	1086.9
9/21/2021 14:00	9/21/2021 15:00	1064.0

Start Time	End Time	ANL_MW
9/21/2021 15:00	9/21/2021 16:00	1066.0
9/21/2021 16:00	9/21/2021 17:00	1092.5
9/21/2021 17:00	9/21/2021 18:00	1114.3
9/21/2021 18:00	9/21/2021 19:00	1060.4
9/21/2021 19:00	9/21/2021 20:00	1003.3
9/21/2021 20:00	9/21/2021 21:00	946.9
9/21/2021 21:00	9/21/2021 22:00	871.3
9/21/2021 22:00	9/21/2021 23:00	778.7
9/21/2021 23:00	9/22/2021 0:00	695.4
9/22/2021 0:00	9/22/2021 1:00	648.6
9/22/2021 1:00	9/22/2021 2:00	632.9
9/22/2021 2:00	9/22/2021 3:00	645.2
9/22/2021 3:00	9/22/2021 4:00	642.1
9/22/2021 4:00	9/22/2021 5:00	644.8
9/22/2021 5:00	9/22/2021 6:00	627.6
9/22/2021 6:00	9/22/2021 7:00	735.0
9/22/2021 7:00	9/22/2021 8:00	848.7
9/22/2021 8:00	9/22/2021 9:00	937.9
9/22/2021 9:00	9/22/2021 10:00	1019.8
9/22/2021 10:00	9/22/2021 11:00	1033.2
9/22/2021 11:00	9/22/2021 12:00	1028.8
9/22/2021 12:00	9/22/2021 13:00	1037.2
9/22/2021 13:00	9/22/2021 14:00	1048.0
9/22/2021 14:00	9/22/2021 15:00	1050.2
9/22/2021 15:00	9/22/2021 16:00	1055.1
9/22/2021 16:00	9/22/2021 17:00	1105.4
9/22/2021 17:00	9/22/2021 18:00	1117.7
9/22/2021 18:00	9/22/2021 19:00	1080.7
9/22/2021 19:00	9/22/2021 20:00	1053.4
9/22/2021 20:00	9/22/2021 21:00	1033.5
9/22/2021 21:00	9/22/2021 22:00	1005.7
9/22/2021 22:00	9/22/2021 23:00	921.2
9/22/2021 23:00	9/23/2021 0:00	855.5
9/23/2021 0:00	9/23/2021 1:00	775.5
9/23/2021 1:00	9/23/2021 2:00	722.5
9/23/2021 2:00	9/23/2021 3:00	682.5
9/23/2021 3:00	9/23/2021 4:00	655.3
9/23/2021 4:00	9/23/2021 5:00	678.3
9/23/2021 5:00	9/23/2021 6:00	724.7
9/23/2021 6:00	9/23/2021 7:00	856.6
9/23/2021 7:00	9/23/2021 8:00	985.8
9/23/2021 8:00	9/23/2021 9:00	1064.3
9/23/2021 9:00	9/23/2021 10:00	1149.9
9/23/2021 10:00	9/23/2021 11:00	1133.0
9/23/2021 11:00	9/23/2021 12:00	1172.8
9/23/2021 12:00	9/23/2021 13:00	1184.3
9/23/2021 13:00	9/23/2021 14:00	1182.4
9/23/2021 14:00	9/23/2021 15:00	1167.6
9/23/2021 15:00	9/23/2021 16:00	1179.8
9/23/2021 16:00	9/23/2021 17:00	1220.7
9/23/2021 17:00	9/23/2021 18:00	1244.6
9/23/2021 18:00	9/23/2021 19:00	1213.0
9/23/2021 19:00	9/23/2021 20:00	1177.8
9/23/2021 20:00	9/23/2021 21:00	1151.0
9/23/2021 21:00	9/23/2021 22:00	1086.3
9/23/2021 22:00	9/23/2021 23:00	1008.5
9/23/2021 23:00	9/24/2021 0:00	952.1
9/24/2021 0:00	9/24/2021 1:00	883.8
9/24/2021 1:00	9/24/2021 2:00	843.9
9/24/2021 2:00	9/24/2021 3:00	832.8
9/24/2021 3:00	9/24/2021 4:00	832.0
9/24/2021 4:00	9/24/2021 5:00	832.2
9/24/2021 5:00	9/24/2021 6:00	873.3
9/24/2021 6:00	9/24/2021 7:00	968.8
9/24/2021 7:00	9/24/2021 8:00	1055.3
9/24/2021 8:00	9/24/2021 9:00	1113.7
9/24/2021 9:00	9/24/2021 10:00	1170.6
9/24/2021 10:00	9/24/2021 11:00	1198.8
9/24/2021 11:00	9/24/2021 12:00	1206.4
9/24/2021 12:00	9/24/2021 13:00	1198.4

Start Time	End Time	ANL_MW
9/24/2021 13:00	9/24/2021 14:00	1185.7
9/24/2021 14:00	9/24/2021 15:00	1172.8
9/24/2021 15:00	9/24/2021 16:00	1176.2
9/24/2021 16:00	9/24/2021 17:00	1120.7
9/24/2021 17:00	9/24/2021 18:00	1083.2
9/24/2021 18:00	9/24/2021 19:00	1022.6
9/24/2021 19:00	9/24/2021 20:00	982.9
9/24/2021 20:00	9/24/2021 21:00	923.2
9/24/2021 21:00	9/24/2021 22:00	856.4
9/24/2021 22:00	9/24/2021 23:00	783.4
9/24/2021 23:00	9/25/2021 0:00	715.0
9/25/2021 0:00	9/25/2021 1:00	619.0
9/25/2021 1:00	9/25/2021 2:00	598.1
9/25/2021 2:00	9/25/2021 3:00	588.4
9/25/2021 3:00	9/25/2021 4:00	569.8
9/25/2021 4:00	9/25/2021 5:00	548.7
9/25/2021 5:00	9/25/2021 6:00	553.7
9/25/2021 6:00	9/25/2021 7:00	608.4
9/25/2021 7:00	9/25/2021 8:00	649.2
9/25/2021 8:00	9/25/2021 9:00	709.6
9/25/2021 9:00	9/25/2021 10:00	779.0
9/25/2021 10:00	9/25/2021 11:00	786.6
9/25/2021 11:00	9/25/2021 12:00	806.7
9/25/2021 12:00	9/25/2021 13:00	810.1
9/25/2021 13:00	9/25/2021 14:00	782.4
9/25/2021 14:00	9/25/2021 15:00	715.7
9/25/2021 15:00	9/25/2021 16:00	714.4
9/25/2021 16:00	9/25/2021 17:00	752.5
9/25/2021 17:00	9/25/2021 18:00	799.1
9/25/2021 18:00	9/25/2021 19:00	786.4
9/25/2021 19:00	9/25/2021 20:00	847.9
9/25/2021 20:00	9/25/2021 21:00	891.6
9/25/2021 21:00	9/25/2021 22:00	860.2
9/25/2021 22:00	9/25/2021 23:00	830.6
9/25/2021 23:00	9/26/2021 0:00	785.7
9/26/2021 0:00	9/26/2021 1:00	743.3
9/26/2021 1:00	9/26/2021 2:00	742.0
9/26/2021 2:00	9/26/2021 3:00	717.7
9/26/2021 3:00	9/26/2021 4:00	720.9
9/26/2021 4:00	9/26/2021 5:00	703.9
9/26/2021 5:00	9/26/2021 6:00	666.7
9/26/2021 6:00	9/26/2021 7:00	688.0
9/26/2021 7:00	9/26/2021 8:00	676.5
9/26/2021 8:00	9/26/2021 9:00	722.1
9/26/2021 9:00	9/26/2021 10:00	778.6
9/26/2021 10:00	9/26/2021 11:00	852.2
9/26/2021 11:00	9/26/2021 12:00	886.0
9/26/2021 12:00	9/26/2021 13:00	866.4
9/26/2021 13:00	9/26/2021 14:00	848.4
9/26/2021 14:00	9/26/2021 15:00	791.0
9/26/2021 15:00	9/26/2021 16:00	786.0
9/26/2021 16:00	9/26/2021 17:00	823.3
9/26/2021 17:00	9/26/2021 18:00	898.3
9/26/2021 18:00	9/26/2021 19:00	867.2
9/26/2021 19:00	9/26/2021 20:00	887.1
9/26/2021 20:00	9/26/2021 21:00	866.0
9/26/2021 21:00	9/26/2021 22:00	911.5
9/26/2021 22:00	9/26/2021 23:00	850.0
9/26/2021 23:00	9/27/2021 0:00	805.1
9/27/2021 0:00	9/27/2021 1:00	763.6
9/27/2021 1:00	9/27/2021 2:00	746.2
9/27/2021 2:00	9/27/2021 3:00	713.1
9/27/2021 3:00	9/27/2021 4:00	686.5
9/27/2021 4:00	9/27/2021 5:00	673.4
9/27/2021 5:00	9/27/2021 6:00	686.3
9/27/2021 6:00	9/27/2021 7:00	788.2
9/27/2021 7:00	9/27/2021 8:00	889.2
9/27/2021 8:00	9/27/2021 9:00	928.7
9/27/2021 9:00	9/27/2021 10:00	991.4
9/27/2021 10:00	9/27/2021 11:00	1000.2

Start Time	End Time	ANL_MW
9/27/2021 11:00	9/27/2021 12:00	979.9
9/27/2021 12:00	9/27/2021 13:00	926.6
9/27/2021 13:00	9/27/2021 14:00	885.1
9/27/2021 14:00	9/27/2021 15:00	810.6
9/27/2021 15:00	9/27/2021 16:00	803.0
9/27/2021 16:00	9/27/2021 17:00	886.1
9/27/2021 17:00	9/27/2021 18:00	969.2
9/27/2021 18:00	9/27/2021 19:00	970.9
9/27/2021 19:00	9/27/2021 20:00	966.3
9/27/2021 20:00	9/27/2021 21:00	939.7
9/27/2021 21:00	9/27/2021 22:00	835.8
9/27/2021 22:00	9/27/2021 23:00	707.4
9/27/2021 23:00	9/28/2021 0:00	645.4
9/28/2021 0:00	9/28/2021 1:00	636.1
9/28/2021 1:00	9/28/2021 2:00	643.9
9/28/2021 2:00	9/28/2021 3:00	627.4
9/28/2021 3:00	9/28/2021 4:00	609.1
9/28/2021 4:00	9/28/2021 5:00	650.6
9/28/2021 5:00	9/28/2021 6:00	728.0
9/28/2021 6:00	9/28/2021 7:00	868.6
9/28/2021 7:00	9/28/2021 8:00	987.5
9/28/2021 8:00	9/28/2021 9:00	1055.6
9/28/2021 9:00	9/28/2021 10:00	1056.9
9/28/2021 10:00	9/28/2021 11:00	1070.4
9/28/2021 11:00	9/28/2021 12:00	1076.9
9/28/2021 12:00	9/28/2021 13:00	1084.5
9/28/2021 13:00	9/28/2021 14:00	1078.5
9/28/2021 14:00	9/28/2021 15:00	1086.9
9/28/2021 15:00	9/28/2021 16:00	1117.0
9/28/2021 16:00	9/28/2021 17:00	1175.9
9/28/2021 17:00	9/28/2021 18:00	1191.1
9/28/2021 18:00	9/28/2021 19:00	1180.8
9/28/2021 19:00	9/28/2021 20:00	1173.8
9/28/2021 20:00	9/28/2021 21:00	1137.8
9/28/2021 21:00	9/28/2021 22:00	1078.9
9/28/2021 22:00	9/28/2021 23:00	978.3
9/28/2021 23:00	9/29/2021 0:00	901.5
9/29/2021 0:00	9/29/2021 1:00	820.8
9/29/2021 1:00	9/29/2021 2:00	748.6
9/29/2021 2:00	9/29/2021 3:00	700.3
9/29/2021 3:00	9/29/2021 4:00	669.0
9/29/2021 4:00	9/29/2021 5:00	635.9
9/29/2021 5:00	9/29/2021 6:00	631.8
9/29/2021 6:00	9/29/2021 7:00	772.5
9/29/2021 7:00	9/29/2021 8:00	852.1
9/29/2021 8:00	9/29/2021 9:00	907.5
9/29/2021 9:00	9/29/2021 10:00	972.1
9/29/2021 10:00	9/29/2021 11:00	1008.5
9/29/2021 11:00	9/29/2021 12:00	1013.6
9/29/2021 12:00	9/29/2021 13:00	1004.2
9/29/2021 13:00	9/29/2021 14:00	990.6
9/29/2021 14:00	9/29/2021 15:00	971.0
9/29/2021 15:00	9/29/2021 16:00	968.4
9/29/2021 16:00	9/29/2021 17:00	997.2
9/29/2021 17:00	9/29/2021 18:00	1022.0
9/29/2021 18:00	9/29/2021 19:00	1025.1
9/29/2021 19:00	9/29/2021 20:00	1026.0
9/29/2021 20:00	9/29/2021 21:00	997.3
9/29/2021 21:00	9/29/2021 22:00	949.3
9/29/2021 22:00	9/29/2021 23:00	881.5
9/29/2021 23:00	9/30/2021 0:00	844.4
9/30/2021 0:00	9/30/2021 1:00	858.8
9/30/2021 1:00	9/30/2021 2:00	835.2
9/30/2021 2:00	9/30/2021 3:00	827.3
9/30/2021 3:00	9/30/2021 4:00	823.4
9/30/2021 4:00	9/30/2021 5:00	828.1
9/30/2021 5:00	9/30/2021 6:00	860.0
9/30/2021 6:00	9/30/2021 7:00	928.8
9/30/2021 7:00	9/30/2021 8:00	1008.2
9/30/2021 8:00	9/30/2021 9:00	1088.9

Start Time	End Time	ANL_MW
9/30/2021 9:00	9/30/2021 10:00	1085.5
9/30/2021 10:00	9/30/2021 11:00	1130.3
9/30/2021 11:00	9/30/2021 12:00	1154.3
9/30/2021 12:00	9/30/2021 13:00	1148.3
9/30/2021 13:00	9/30/2021 14:00	1114.6
9/30/2021 14:00	9/30/2021 15:00	1083.7
9/30/2021 15:00	9/30/2021 16:00	1025.6
9/30/2021 16:00	9/30/2021 17:00	1050.7
9/30/2021 17:00	9/30/2021 18:00	1068.2
9/30/2021 18:00	9/30/2021 19:00	1058.7
9/30/2021 19:00	9/30/2021 20:00	1134.5
9/30/2021 20:00	9/30/2021 21:00	1115.9
9/30/2021 21:00	9/30/2021 22:00	1064.6
9/30/2021 22:00	9/30/2021 23:00	985.0
9/30/2021 23:00	10/1/2021 0:00	908.8
10/1/2021 0:00	10/1/2021 1:00	851.2
10/1/2021 1:00	10/1/2021 2:00	812.6
10/1/2021 2:00	10/1/2021 3:00	803.0
10/1/2021 3:00	10/1/2021 4:00	809.9
10/1/2021 4:00	10/1/2021 5:00	819.2
10/1/2021 5:00	10/1/2021 6:00	853.0
10/1/2021 6:00	10/1/2021 7:00	960.1
10/1/2021 7:00	10/1/2021 8:00	1072.4
10/1/2021 8:00	10/1/2021 9:00	1096.2
10/1/2021 9:00	10/1/2021 10:00	1114.1
10/1/2021 10:00	10/1/2021 11:00	1113.2
10/1/2021 11:00	10/1/2021 12:00	1121.1
10/1/2021 12:00	10/1/2021 13:00	1110.6
10/1/2021 13:00	10/1/2021 14:00	1092.8
10/1/2021 14:00	10/1/2021 15:00	1075.1
10/1/2021 15:00	10/1/2021 16:00	1080.4
10/1/2021 16:00	10/1/2021 17:00	1097.0
10/1/2021 17:00	10/1/2021 18:00	1116.6
10/1/2021 18:00	10/1/2021 19:00	1103.9
10/1/2021 19:00	10/1/2021 20:00	1124.3
10/1/2021 20:00	10/1/2021 21:00	1095.1
10/1/2021 21:00	10/1/2021 22:00	1115.3
10/1/2021 22:00	10/1/2021 23:00	1048.6
10/1/2021 23:00	10/2/2021 0:00	997.3
10/2/2021 0:00	10/2/2021 1:00	927.8
10/2/2021 1:00	10/2/2021 2:00	877.3
10/2/2021 2:00	10/2/2021 3:00	838.0
10/2/2021 3:00	10/2/2021 4:00	819.1
10/2/2021 4:00	10/2/2021 5:00	808.2
10/2/2021 5:00	10/2/2021 6:00	851.0
10/2/2021 6:00	10/2/2021 7:00	890.3
10/2/2021 7:00	10/2/2021 8:00	941.8
10/2/2021 8:00	10/2/2021 9:00	986.2
10/2/2021 9:00	10/2/2021 10:00	1037.8
10/2/2021 10:00	10/2/2021 11:00	1035.1
10/2/2021 11:00	10/2/2021 12:00	1023.7
10/2/2021 12:00	10/2/2021 13:00	1031.1
10/2/2021 13:00	10/2/2021 14:00	974.7
10/2/2021 14:00	10/2/2021 15:00	960.6
10/2/2021 15:00	10/2/2021 16:00	961.7
10/2/2021 16:00	10/2/2021 17:00	1012.4
10/2/2021 17:00	10/2/2021 18:00	1061.0
10/2/2021 18:00	10/2/2021 19:00	1068.6
10/2/2021 19:00	10/2/2021 20:00	1096.4
10/2/2021 20:00	10/2/2021 21:00	1058.8
10/2/2021 21:00	10/2/2021 22:00	1003.6
10/2/2021 22:00	10/2/2021 23:00	991.5
10/2/2021 23:00	10/3/2021 0:00	950.2
10/3/2021 0:00	10/3/2021 1:00	915.5
10/3/2021 1:00	10/3/2021 2:00	893.0
10/3/2021 2:00	10/3/2021 3:00	890.4
10/3/2021 3:00	10/3/2021 4:00	882.8
10/3/2021 4:00	10/3/2021 5:00	875.7
10/3/2021 5:00	10/3/2021 6:00	894.8
10/3/2021 6:00	10/3/2021 7:00	941.0

Start Time	End Time	ANL_MW
10/3/2021 7:00	10/3/2021 8:00	1004.4
10/3/2021 8:00	10/3/2021 9:00	1035.8
10/3/2021 9:00	10/3/2021 10:00	1079.8
10/3/2021 10:00	10/3/2021 11:00	1099.1
10/3/2021 11:00	10/3/2021 12:00	1111.4
10/3/2021 12:00	10/3/2021 13:00	1112.1
10/3/2021 13:00	10/3/2021 14:00	1087.3
10/3/2021 14:00	10/3/2021 15:00	1056.7
10/3/2021 15:00	10/3/2021 16:00	1056.7
10/3/2021 16:00	10/3/2021 17:00	1098.7
10/3/2021 17:00	10/3/2021 18:00	1138.1
10/3/2021 18:00	10/3/2021 19:00	1144.0
10/3/2021 19:00	10/3/2021 20:00	1164.3
10/3/2021 20:00	10/3/2021 21:00	1119.4
10/3/2021 21:00	10/3/2021 22:00	1043.4
10/3/2021 22:00	10/3/2021 23:00	997.2
10/3/2021 23:00	10/4/2021 0:00	904.4
10/4/2021 0:00	10/4/2021 1:00	836.7
10/4/2021 1:00	10/4/2021 2:00	822.7
10/4/2021 2:00	10/4/2021 3:00	787.8
10/4/2021 3:00	10/4/2021 4:00	771.3
10/4/2021 4:00	10/4/2021 5:00	749.7
10/4/2021 5:00	10/4/2021 6:00	783.7
10/4/2021 6:00	10/4/2021 7:00	867.3
10/4/2021 7:00	10/4/2021 8:00	968.9
10/4/2021 8:00	10/4/2021 9:00	1011.5
10/4/2021 9:00	10/4/2021 10:00	1035.3
10/4/2021 10:00	10/4/2021 11:00	1014.8
10/4/2021 11:00	10/4/2021 12:00	991.7
10/4/2021 12:00	10/4/2021 13:00	1025.9
10/4/2021 13:00	10/4/2021 14:00	1006.0
10/4/2021 14:00	10/4/2021 15:00	978.6
10/4/2021 15:00	10/4/2021 16:00	984.7
10/4/2021 16:00	10/4/2021 17:00	980.4
10/4/2021 17:00	10/4/2021 18:00	1031.1
10/4/2021 18:00	10/4/2021 19:00	1046.7
10/4/2021 19:00	10/4/2021 20:00	1076.0
10/4/2021 20:00	10/4/2021 21:00	1023.1
10/4/2021 21:00	10/4/2021 22:00	965.7
10/4/2021 22:00	10/4/2021 23:00	893.2
10/4/2021 23:00	10/5/2021 0:00	878.7
10/5/2021 0:00	10/5/2021 1:00	914.8
10/5/2021 1:00	10/5/2021 2:00	934.0
10/5/2021 2:00	10/5/2021 3:00	914.3
10/5/2021 3:00	10/5/2021 4:00	898.5
10/5/2021 4:00	10/5/2021 5:00	890.7
10/5/2021 5:00	10/5/2021 6:00	935.4
10/5/2021 6:00	10/5/2021 7:00	992.5
10/5/2021 7:00	10/5/2021 8:00	1108.8
10/5/2021 8:00	10/5/2021 9:00	1145.1
10/5/2021 9:00	10/5/2021 10:00	1138.6
10/5/2021 10:00	10/5/2021 11:00	1078.7
10/5/2021 11:00	10/5/2021 12:00	1060.3
10/5/2021 12:00	10/5/2021 13:00	1053.9
10/5/2021 13:00	10/5/2021 14:00	1079.5
10/5/2021 14:00	10/5/2021 15:00	1090.9
10/5/2021 15:00	10/5/2021 16:00	1104.4
10/5/2021 16:00	10/5/2021 17:00	1149.3
10/5/2021 17:00	10/5/2021 18:00	1183.2
10/5/2021 18:00	10/5/2021 19:00	1169.2
10/5/2021 19:00	10/5/2021 20:00	1167.9
10/5/2021 20:00	10/5/2021 21:00	1135.0
10/5/2021 21:00	10/5/2021 22:00	1070.0
10/5/2021 22:00	10/5/2021 23:00	1014.7
10/5/2021 23:00	10/6/2021 0:00	967.0
10/6/2021 0:00	10/6/2021 1:00	948.0
10/6/2021 1:00	10/6/2021 2:00	908.5
10/6/2021 2:00	10/6/2021 3:00	874.4
10/6/2021 3:00	10/6/2021 4:00	843.3
10/6/2021 4:00	10/6/2021 5:00	850.9

Start Time	End Time	ANL_MW
10/6/2021 5:00	10/6/2021 6:00	896.0
10/6/2021 6:00	10/6/2021 7:00	1029.6
10/6/2021 7:00	10/6/2021 8:00	1167.6
10/6/2021 8:00	10/6/2021 9:00	1114.7
10/6/2021 9:00	10/6/2021 10:00	1124.0
10/6/2021 10:00	10/6/2021 11:00	1135.8
10/6/2021 11:00	10/6/2021 12:00	1130.4
10/6/2021 12:00	10/6/2021 13:00	1118.2
10/6/2021 13:00	10/6/2021 14:00	1085.6
10/6/2021 14:00	10/6/2021 15:00	1070.0
10/6/2021 15:00	10/6/2021 16:00	1063.9
10/6/2021 16:00	10/6/2021 17:00	1092.9
10/6/2021 17:00	10/6/2021 18:00	1127.7
10/6/2021 18:00	10/6/2021 19:00	1101.4
10/6/2021 19:00	10/6/2021 20:00	1089.8
10/6/2021 20:00	10/6/2021 21:00	1041.0
10/6/2021 21:00	10/6/2021 22:00	972.9
10/6/2021 22:00	10/6/2021 23:00	889.1
10/6/2021 23:00	10/7/2021 0:00	852.2
10/7/2021 0:00	10/7/2021 1:00	823.5
10/7/2021 1:00	10/7/2021 2:00	785.9
10/7/2021 2:00	10/7/2021 3:00	804.2
10/7/2021 3:00	10/7/2021 4:00	841.7
10/7/2021 4:00	10/7/2021 5:00	875.4
10/7/2021 5:00	10/7/2021 6:00	869.5
10/7/2021 6:00	10/7/2021 7:00	1003.6
10/7/2021 7:00	10/7/2021 8:00	1129.4
10/7/2021 8:00	10/7/2021 9:00	1155.0
10/7/2021 9:00	10/7/2021 10:00	1169.1
10/7/2021 10:00	10/7/2021 11:00	1159.4
10/7/2021 11:00	10/7/2021 12:00	1151.1
10/7/2021 12:00	10/7/2021 13:00	1128.2
10/7/2021 13:00	10/7/2021 14:00	1118.8
10/7/2021 14:00	10/7/2021 15:00	1112.2
10/7/2021 15:00	10/7/2021 16:00	1115.6
10/7/2021 16:00	10/7/2021 17:00	1145.2
10/7/2021 17:00	10/7/2021 18:00	1162.7
10/7/2021 18:00	10/7/2021 19:00	1121.9
10/7/2021 19:00	10/7/2021 20:00	1155.2
10/7/2021 20:00	10/7/2021 21:00	1094.0
10/7/2021 21:00	10/7/2021 22:00	970.1
10/7/2021 22:00	10/7/2021 23:00	853.7
10/7/2021 23:00	10/8/2021 0:00	748.4
10/8/2021 0:00	10/8/2021 1:00	662.6
10/8/2021 1:00	10/8/2021 2:00	636.9
10/8/2021 2:00	10/8/2021 3:00	630.3
10/8/2021 3:00	10/8/2021 4:00	622.2
10/8/2021 4:00	10/8/2021 5:00	614.2
10/8/2021 5:00	10/8/2021 6:00	642.9
10/8/2021 6:00	10/8/2021 7:00	683.0
10/8/2021 7:00	10/8/2021 8:00	735.6
10/8/2021 8:00	10/8/2021 9:00	748.3
10/8/2021 9:00	10/8/2021 10:00	736.9
10/8/2021 10:00	10/8/2021 11:00	706.8
10/8/2021 11:00	10/8/2021 12:00	708.8
10/8/2021 12:00	10/8/2021 13:00	719.5
10/8/2021 13:00	10/8/2021 14:00	745.2
10/8/2021 14:00	10/8/2021 15:00	776.7
10/8/2021 15:00	10/8/2021 16:00	813.6
10/8/2021 16:00	10/8/2021 17:00	860.3
10/8/2021 17:00	10/8/2021 18:00	905.3
10/8/2021 18:00	10/8/2021 19:00	931.7
10/8/2021 19:00	10/8/2021 20:00	958.1
10/8/2021 20:00	10/8/2021 21:00	912.8
10/8/2021 21:00	10/8/2021 22:00	867.2
10/8/2021 22:00	10/8/2021 23:00	804.1
10/8/2021 23:00	10/9/2021 0:00	797.3
10/9/2021 0:00	10/9/2021 1:00	768.5
10/9/2021 1:00	10/9/2021 2:00	837.4
10/9/2021 2:00	10/9/2021 3:00	840.8

Start Time	End Time	ANL_MW
10/9/2021 3:00	10/9/2021 4:00	843.8
10/9/2021 4:00	10/9/2021 5:00	863.8
10/9/2021 5:00	10/9/2021 6:00	844.8
10/9/2021 6:00	10/9/2021 7:00	911.6
10/9/2021 7:00	10/9/2021 8:00	987.6
10/9/2021 8:00	10/9/2021 9:00	1082.7
10/9/2021 9:00	10/9/2021 10:00	1080.9
10/9/2021 10:00	10/9/2021 11:00	1063.8
10/9/2021 11:00	10/9/2021 12:00	1071.2
10/9/2021 12:00	10/9/2021 13:00	1086.9
10/9/2021 13:00	10/9/2021 14:00	1068.5
10/9/2021 14:00	10/9/2021 15:00	1036.5
10/9/2021 15:00	10/9/2021 16:00	1030.2
10/9/2021 16:00	10/9/2021 17:00	1062.0
10/9/2021 17:00	10/9/2021 18:00	1094.7
10/9/2021 18:00	10/9/2021 19:00	1098.1
10/9/2021 19:00	10/9/2021 20:00	1149.0
10/9/2021 20:00	10/9/2021 21:00	1126.8
10/9/2021 21:00	10/9/2021 22:00	1109.1
10/9/2021 22:00	10/9/2021 23:00	1102.6
10/9/2021 23:00	10/10/2021 0:00	1043.5
10/10/2021 0:00	10/10/2021 1:00	1002.0
10/10/2021 1:00	10/10/2021 2:00	957.9
10/10/2021 2:00	10/10/2021 3:00	942.3
10/10/2021 3:00	10/10/2021 4:00	943.0
10/10/2021 4:00	10/10/2021 5:00	959.8
10/10/2021 5:00	10/10/2021 6:00	985.1
10/10/2021 6:00	10/10/2021 7:00	1027.7
10/10/2021 7:00	10/10/2021 8:00	1101.3
10/10/2021 8:00	10/10/2021 9:00	1116.2
10/10/2021 9:00	10/10/2021 10:00	1189.1
10/10/2021 10:00	10/10/2021 11:00	1206.6
10/10/2021 11:00	10/10/2021 12:00	1192.2
10/10/2021 12:00	10/10/2021 13:00	1170.2
10/10/2021 13:00	10/10/2021 14:00	1135.2
10/10/2021 14:00	10/10/2021 15:00	1105.2
10/10/2021 15:00	10/10/2021 16:00	1094.2
10/10/2021 16:00	10/10/2021 17:00	1092.2
10/10/2021 17:00	10/10/2021 18:00	1054.3
10/10/2021 18:00	10/10/2021 19:00	1003.5
10/10/2021 19:00	10/10/2021 20:00	1004.2
10/10/2021 20:00	10/10/2021 21:00	949.1
10/10/2021 21:00	10/10/2021 22:00	881.9
10/10/2021 22:00	10/10/2021 23:00	831.8
10/10/2021 23:00	10/11/2021 0:00	822.4
10/11/2021 0:00	10/11/2021 1:00	821.0
10/11/2021 1:00	10/11/2021 2:00	822.3
10/11/2021 2:00	10/11/2021 3:00	826.6
10/11/2021 3:00	10/11/2021 4:00	815.0
10/11/2021 4:00	10/11/2021 5:00	825.5
10/11/2021 5:00	10/11/2021 6:00	792.1
10/11/2021 6:00	10/11/2021 7:00	836.7
10/11/2021 7:00	10/11/2021 8:00	901.8
10/11/2021 8:00	10/11/2021 9:00	1001.0
10/11/2021 9:00	10/11/2021 10:00	1035.8
10/11/2021 10:00	10/11/2021 11:00	1106.2
10/11/2021 11:00	10/11/2021 12:00	1124.9
10/11/2021 12:00	10/11/2021 13:00	1124.9
10/11/2021 13:00	10/11/2021 14:00	1098.9
10/11/2021 14:00	10/11/2021 15:00	1081.3
10/11/2021 15:00	10/11/2021 16:00	1075.2
10/11/2021 16:00	10/11/2021 17:00	1097.0
10/11/2021 17:00	10/11/2021 18:00	1100.5
10/11/2021 18:00	10/11/2021 19:00	1095.7
10/11/2021 19:00	10/11/2021 20:00	1129.8
10/11/2021 20:00	10/11/2021 21:00	1083.7
10/11/2021 21:00	10/11/2021 22:00	1026.9
10/11/2021 22:00	10/11/2021 23:00	911.7
10/11/2021 23:00	10/12/2021 0:00	907.2
10/12/2021 0:00	10/12/2021 1:00	839.4

Start Time	End Time	ANL_MW
10/12/2021 1:00	10/12/2021 2:00	775.6
10/12/2021 2:00	10/12/2021 3:00	757.0
10/12/2021 3:00	10/12/2021 4:00	762.3
10/12/2021 4:00	10/12/2021 5:00	786.0
10/12/2021 5:00	10/12/2021 6:00	838.6
10/12/2021 6:00	10/12/2021 7:00	973.5
10/12/2021 7:00	10/12/2021 8:00	1096.5
10/12/2021 8:00	10/12/2021 9:00	1153.4
10/12/2021 9:00	10/12/2021 10:00	1134.8
10/12/2021 10:00	10/12/2021 11:00	1155.1
10/12/2021 11:00	10/12/2021 12:00	1137.3
10/12/2021 12:00	10/12/2021 13:00	1122.8
10/12/2021 13:00	10/12/2021 14:00	1101.3
10/12/2021 14:00	10/12/2021 15:00	1070.1
10/12/2021 15:00	10/12/2021 16:00	1075.5
10/12/2021 16:00	10/12/2021 17:00	1116.5
10/12/2021 17:00	10/12/2021 18:00	1138.6
10/12/2021 18:00	10/12/2021 19:00	1097.9
10/12/2021 19:00	10/12/2021 20:00	1115.4
10/12/2021 20:00	10/12/2021 21:00	1091.0
10/12/2021 21:00	10/12/2021 22:00	1041.0
10/12/2021 22:00	10/12/2021 23:00	1015.2
10/12/2021 23:00	10/13/2021 0:00	988.0
10/13/2021 0:00	10/13/2021 1:00	949.0
10/13/2021 1:00	10/13/2021 2:00	924.1
10/13/2021 2:00	10/13/2021 3:00	907.8
10/13/2021 3:00	10/13/2021 4:00	909.9
10/13/2021 4:00	10/13/2021 5:00	860.2
10/13/2021 5:00	10/13/2021 6:00	894.7
10/13/2021 6:00	10/13/2021 7:00	1005.8
10/13/2021 7:00	10/13/2021 8:00	1120.6
10/13/2021 8:00	10/13/2021 9:00	1166.9
10/13/2021 9:00	10/13/2021 10:00	1181.3
10/13/2021 10:00	10/13/2021 11:00	1188.5
10/13/2021 11:00	10/13/2021 12:00	1188.7
10/13/2021 12:00	10/13/2021 13:00	1175.9
10/13/2021 13:00	10/13/2021 14:00	1154.8
10/13/2021 14:00	10/13/2021 15:00	1142.6
10/13/2021 15:00	10/13/2021 16:00	1156.6
10/13/2021 16:00	10/13/2021 17:00	1184.7
10/13/2021 17:00	10/13/2021 18:00	1207.9
10/13/2021 18:00	10/13/2021 19:00	1219.0
10/13/2021 19:00	10/13/2021 20:00	1235.6
10/13/2021 20:00	10/13/2021 21:00	1172.9
10/13/2021 21:00	10/13/2021 22:00	1104.7
10/13/2021 22:00	10/13/2021 23:00	1032.9
10/13/2021 23:00	10/14/2021 0:00	976.5
10/14/2021 0:00	10/14/2021 1:00	913.2
10/14/2021 1:00	10/14/2021 2:00	852.1
10/14/2021 2:00	10/14/2021 3:00	828.4
10/14/2021 3:00	10/14/2021 4:00	817.8
10/14/2021 4:00	10/14/2021 5:00	853.5
10/14/2021 5:00	10/14/2021 6:00	910.6
10/14/2021 6:00	10/14/2021 7:00	1001.5
10/14/2021 7:00	10/14/2021 8:00	1127.0
10/14/2021 8:00	10/14/2021 9:00	1114.2
10/14/2021 9:00	10/14/2021 10:00	1108.8
10/14/2021 10:00	10/14/2021 11:00	1134.7
10/14/2021 11:00	10/14/2021 12:00	1178.0
10/14/2021 12:00	10/14/2021 13:00	1177.6
10/14/2021 13:00	10/14/2021 14:00	1153.5
10/14/2021 14:00	10/14/2021 15:00	1130.4
10/14/2021 15:00	10/14/2021 16:00	1117.9
10/14/2021 16:00	10/14/2021 17:00	1123.9
10/14/2021 17:00	10/14/2021 18:00	1125.0
10/14/2021 18:00	10/14/2021 19:00	1120.3
10/14/2021 19:00	10/14/2021 20:00	1108.9
10/14/2021 20:00	10/14/2021 21:00	1128.3
10/14/2021 21:00	10/14/2021 22:00	1096.4
10/14/2021 22:00	10/14/2021 23:00	1010.3

Start Time	End Time	ANL_MW
10/14/2021 23:00	10/15/2021 0:00	958.4
10/15/2021 0:00	10/15/2021 1:00	906.1
10/15/2021 1:00	10/15/2021 2:00	882.3
10/15/2021 2:00	10/15/2021 3:00	862.3
10/15/2021 3:00	10/15/2021 4:00	835.3
10/15/2021 4:00	10/15/2021 5:00	836.1
10/15/2021 5:00	10/15/2021 6:00	869.5
10/15/2021 6:00	10/15/2021 7:00	990.2
10/15/2021 7:00	10/15/2021 8:00	1115.6
10/15/2021 8:00	10/15/2021 9:00	1171.0
10/15/2021 9:00	10/15/2021 10:00	1142.8
10/15/2021 10:00	10/15/2021 11:00	1112.4
10/15/2021 11:00	10/15/2021 12:00	1103.5
10/15/2021 12:00	10/15/2021 13:00	1098.2
10/15/2021 13:00	10/15/2021 14:00	1097.6
10/15/2021 14:00	10/15/2021 15:00	1058.4
10/15/2021 15:00	10/15/2021 16:00	1050.8
10/15/2021 16:00	10/15/2021 17:00	1079.8
10/15/2021 17:00	10/15/2021 18:00	1108.8
10/15/2021 18:00	10/15/2021 19:00	1115.5
10/15/2021 19:00	10/15/2021 20:00	1114.4
10/15/2021 20:00	10/15/2021 21:00	1059.4
10/15/2021 21:00	10/15/2021 22:00	1022.7
10/15/2021 22:00	10/15/2021 23:00	1027.6
10/15/2021 23:00	10/16/2021 0:00	1009.7
10/16/2021 0:00	10/16/2021 1:00	964.8
10/16/2021 1:00	10/16/2021 2:00	952.3
10/16/2021 2:00	10/16/2021 3:00	936.5
10/16/2021 3:00	10/16/2021 4:00	929.1
10/16/2021 4:00	10/16/2021 5:00	946.5
10/16/2021 5:00	10/16/2021 6:00	956.5
10/16/2021 6:00	10/16/2021 7:00	927.7
10/16/2021 7:00	10/16/2021 8:00	996.8
10/16/2021 8:00	10/16/2021 9:00	1068.8
10/16/2021 9:00	10/16/2021 10:00	1126.6
10/16/2021 10:00	10/16/2021 11:00	1140.7
10/16/2021 11:00	10/16/2021 12:00	1132.2
10/16/2021 12:00	10/16/2021 13:00	1115.0
10/16/2021 13:00	10/16/2021 14:00	1085.0
10/16/2021 14:00	10/16/2021 15:00	1052.3
10/16/2021 15:00	10/16/2021 16:00	1047.6
10/16/2021 16:00	10/16/2021 17:00	1074.4
10/16/2021 17:00	10/16/2021 18:00	1086.8
10/16/2021 18:00	10/16/2021 19:00	1071.5
10/16/2021 19:00	10/16/2021 20:00	1030.4
10/16/2021 20:00	10/16/2021 21:00	997.2
10/16/2021 21:00	10/16/2021 22:00	916.4
10/16/2021 22:00	10/16/2021 23:00	849.0
10/16/2021 23:00	10/17/2021 0:00	758.7
10/17/2021 0:00	10/17/2021 1:00	666.7
10/17/2021 1:00	10/17/2021 2:00	615.0
10/17/2021 2:00	10/17/2021 3:00	588.7
10/17/2021 3:00	10/17/2021 4:00	593.8
10/17/2021 4:00	10/17/2021 5:00	562.7
10/17/2021 5:00	10/17/2021 6:00	559.1
10/17/2021 6:00	10/17/2021 7:00	582.1
10/17/2021 7:00	10/17/2021 8:00	655.7
10/17/2021 8:00	10/17/2021 9:00	694.5
10/17/2021 9:00	10/17/2021 10:00	706.7
10/17/2021 10:00	10/17/2021 11:00	728.2
10/17/2021 11:00	10/17/2021 12:00	744.7
10/17/2021 12:00	10/17/2021 13:00	767.4
10/17/2021 13:00	10/17/2021 14:00	776.8
10/17/2021 14:00	10/17/2021 15:00	789.1
10/17/2021 15:00	10/17/2021 16:00	820.8
10/17/2021 16:00	10/17/2021 17:00	850.6
10/17/2021 17:00	10/17/2021 18:00	835.1
10/17/2021 18:00	10/17/2021 19:00	850.5
10/17/2021 19:00	10/17/2021 20:00	907.6
10/17/2021 20:00	10/17/2021 21:00	888.6

Start Time	End Time	ANL_MW
10/17/2021 21:00	10/17/2021 22:00	845.4
10/17/2021 22:00	10/17/2021 23:00	777.8
10/17/2021 23:00	10/18/2021 0:00	784.4
10/18/2021 0:00	10/18/2021 1:00	741.5
10/18/2021 1:00	10/18/2021 2:00	748.5
10/18/2021 2:00	10/18/2021 3:00	754.9
10/18/2021 3:00	10/18/2021 4:00	757.5
10/18/2021 4:00	10/18/2021 5:00	777.9
10/18/2021 5:00	10/18/2021 6:00	825.5
10/18/2021 6:00	10/18/2021 7:00	876.7
10/18/2021 7:00	10/18/2021 8:00	1019.5
10/18/2021 8:00	10/18/2021 9:00	1070.9
10/18/2021 9:00	10/18/2021 10:00	1114.6
10/18/2021 10:00	10/18/2021 11:00	1127.1
10/18/2021 11:00	10/18/2021 12:00	1127.7
10/18/2021 12:00	10/18/2021 13:00	1122.3
10/18/2021 13:00	10/18/2021 14:00	1090.4
10/18/2021 14:00	10/18/2021 15:00	1061.4
10/18/2021 15:00	10/18/2021 16:00	1076.4
10/18/2021 16:00	10/18/2021 17:00	1111.2
10/18/2021 17:00	10/18/2021 18:00	1153.0
10/18/2021 18:00	10/18/2021 19:00	1161.5
10/18/2021 19:00	10/18/2021 20:00	1131.3
10/18/2021 20:00	10/18/2021 21:00	1045.1
10/18/2021 21:00	10/18/2021 22:00	948.1
10/18/2021 22:00	10/18/2021 23:00	867.8
10/18/2021 23:00	10/19/2021 0:00	837.5
10/19/2021 0:00	10/19/2021 1:00	818.1
10/19/2021 1:00	10/19/2021 2:00	794.9
10/19/2021 2:00	10/19/2021 3:00	760.9
10/19/2021 3:00	10/19/2021 4:00	755.2
10/19/2021 4:00	10/19/2021 5:00	792.9
10/19/2021 5:00	10/19/2021 6:00	871.3
10/19/2021 6:00	10/19/2021 7:00	924.9
10/19/2021 7:00	10/19/2021 8:00	1057.0
10/19/2021 8:00	10/19/2021 9:00	1117.9
10/19/2021 9:00	10/19/2021 10:00	1140.1
10/19/2021 10:00	10/19/2021 11:00	1100.1
10/19/2021 11:00	10/19/2021 12:00	1060.2
10/19/2021 12:00	10/19/2021 13:00	1063.2
10/19/2021 13:00	10/19/2021 14:00	1057.8
10/19/2021 14:00	10/19/2021 15:00	1053.0
10/19/2021 15:00	10/19/2021 16:00	1076.5
10/19/2021 16:00	10/19/2021 17:00	1161.4
10/19/2021 17:00	10/19/2021 18:00	1206.0
10/19/2021 18:00	10/19/2021 19:00	1254.1
10/19/2021 19:00	10/19/2021 20:00	1225.4
10/19/2021 20:00	10/19/2021 21:00	1174.2
10/19/2021 21:00	10/19/2021 22:00	1103.9
10/19/2021 22:00	10/19/2021 23:00	1016.3
10/19/2021 23:00	10/20/2021 0:00	954.4
10/20/2021 0:00	10/20/2021 1:00	907.3
10/20/2021 1:00	10/20/2021 2:00	926.7
10/20/2021 2:00	10/20/2021 3:00	911.3
10/20/2021 3:00	10/20/2021 4:00	914.9
10/20/2021 4:00	10/20/2021 5:00	939.0
10/20/2021 5:00	10/20/2021 6:00	935.9
10/20/2021 6:00	10/20/2021 7:00	1055.9
10/20/2021 7:00	10/20/2021 8:00	1173.1
10/20/2021 8:00	10/20/2021 9:00	1191.1
10/20/2021 9:00	10/20/2021 10:00	1190.0
10/20/2021 10:00	10/20/2021 11:00	1180.0
10/20/2021 11:00	10/20/2021 12:00	1175.1
10/20/2021 12:00	10/20/2021 13:00	1155.5
10/20/2021 13:00	10/20/2021 14:00	1128.0
10/20/2021 14:00	10/20/2021 15:00	1081.0
10/20/2021 15:00	10/20/2021 16:00	1072.7
10/20/2021 16:00	10/20/2021 17:00	1113.6
10/20/2021 17:00	10/20/2021 18:00	1161.6
10/20/2021 18:00	10/20/2021 19:00	1176.4

Start Time	End Time	ANL_MW
10/20/2021 19:00	10/20/2021 20:00	1164.4
10/20/2021 20:00	10/20/2021 21:00	1115.5
10/20/2021 21:00	10/20/2021 22:00	1045.7
10/20/2021 22:00	10/20/2021 23:00	964.2
10/20/2021 23:00	10/21/2021 0:00	978.6
10/21/2021 0:00	10/21/2021 1:00	940.4
10/21/2021 1:00	10/21/2021 2:00	918.6
10/21/2021 2:00	10/21/2021 3:00	873.9
10/21/2021 3:00	10/21/2021 4:00	877.9
10/21/2021 4:00	10/21/2021 5:00	904.8
10/21/2021 5:00	10/21/2021 6:00	926.4
10/21/2021 6:00	10/21/2021 7:00	992.0
10/21/2021 7:00	10/21/2021 8:00	1116.8
10/21/2021 8:00	10/21/2021 9:00	1138.1
10/21/2021 9:00	10/21/2021 10:00	1167.3
10/21/2021 10:00	10/21/2021 11:00	1164.5
10/21/2021 11:00	10/21/2021 12:00	1117.6
10/21/2021 12:00	10/21/2021 13:00	1092.4
10/21/2021 13:00	10/21/2021 14:00	1075.8
10/21/2021 14:00	10/21/2021 15:00	1060.8
10/21/2021 15:00	10/21/2021 16:00	1081.7
10/21/2021 16:00	10/21/2021 17:00	1131.2
10/21/2021 17:00	10/21/2021 18:00	1177.6
10/21/2021 18:00	10/21/2021 19:00	1191.8
10/21/2021 19:00	10/21/2021 20:00	1175.0
10/21/2021 20:00	10/21/2021 21:00	1090.7
10/21/2021 21:00	10/21/2021 22:00	980.0
10/21/2021 22:00	10/21/2021 23:00	938.1
10/21/2021 23:00	10/22/2021 0:00	865.4
10/22/2021 0:00	10/22/2021 1:00	812.5
10/22/2021 1:00	10/22/2021 2:00	762.2
10/22/2021 2:00	10/22/2021 3:00	757.2
10/22/2021 3:00	10/22/2021 4:00	756.4
10/22/2021 4:00	10/22/2021 5:00	753.6
10/22/2021 5:00	10/22/2021 6:00	787.1
10/22/2021 6:00	10/22/2021 7:00	849.1
10/22/2021 7:00	10/22/2021 8:00	945.4
10/22/2021 8:00	10/22/2021 9:00	928.5
10/22/2021 9:00	10/22/2021 10:00	944.4
10/22/2021 10:00	10/22/2021 11:00	931.4
10/22/2021 11:00	10/22/2021 12:00	931.7
10/22/2021 12:00	10/22/2021 13:00	898.5
10/22/2021 13:00	10/22/2021 14:00	836.8
10/22/2021 14:00	10/22/2021 15:00	815.1
10/22/2021 15:00	10/22/2021 16:00	809.5
10/22/2021 16:00	10/22/2021 17:00	834.6
10/22/2021 17:00	10/22/2021 18:00	802.0
10/22/2021 18:00	10/22/2021 19:00	795.4
10/22/2021 19:00	10/22/2021 20:00	779.3
10/22/2021 20:00	10/22/2021 21:00	771.8
10/22/2021 21:00	10/22/2021 22:00	745.0
10/22/2021 22:00	10/22/2021 23:00	761.0
10/22/2021 23:00	10/23/2021 0:00	737.3
10/23/2021 0:00	10/23/2021 1:00	742.0
10/23/2021 1:00	10/23/2021 2:00	759.1
10/23/2021 2:00	10/23/2021 3:00	780.9
10/23/2021 3:00	10/23/2021 4:00	794.2
10/23/2021 4:00	10/23/2021 5:00	793.9
10/23/2021 5:00	10/23/2021 6:00	839.1
10/23/2021 6:00	10/23/2021 7:00	888.6
10/23/2021 7:00	10/23/2021 8:00	964.0
10/23/2021 8:00	10/23/2021 9:00	1031.3
10/23/2021 9:00	10/23/2021 10:00	1058.4
10/23/2021 10:00	10/23/2021 11:00	1097.4
10/23/2021 11:00	10/23/2021 12:00	1117.7
10/23/2021 12:00	10/23/2021 13:00	1125.7
10/23/2021 13:00	10/23/2021 14:00	1104.8
10/23/2021 14:00	10/23/2021 15:00	1094.6
10/23/2021 15:00	10/23/2021 16:00	1090.5
10/23/2021 16:00	10/23/2021 17:00	1131.1

Start Time	End Time	ANL_MW
10/23/2021 17:00	10/23/2021 18:00	1148.8
10/23/2021 18:00	10/23/2021 19:00	1120.8
10/23/2021 19:00	10/23/2021 20:00	1098.7
10/23/2021 20:00	10/23/2021 21:00	1047.1
10/23/2021 21:00	10/23/2021 22:00	989.0
10/23/2021 22:00	10/23/2021 23:00	944.1
10/23/2021 23:00	10/24/2021 0:00	885.7
10/24/2021 0:00	10/24/2021 1:00	898.1
10/24/2021 1:00	10/24/2021 2:00	841.8
10/24/2021 2:00	10/24/2021 3:00	773.5
10/24/2021 3:00	10/24/2021 4:00	690.0
10/24/2021 4:00	10/24/2021 5:00	659.4
10/24/2021 5:00	10/24/2021 6:00	573.1
10/24/2021 6:00	10/24/2021 7:00	571.7
10/24/2021 7:00	10/24/2021 8:00	634.4
10/24/2021 8:00	10/24/2021 9:00	706.7
10/24/2021 9:00	10/24/2021 10:00	748.1
10/24/2021 10:00	10/24/2021 11:00	812.9
10/24/2021 11:00	10/24/2021 12:00	840.1
10/24/2021 12:00	10/24/2021 13:00	826.1
10/24/2021 13:00	10/24/2021 14:00	733.4
10/24/2021 14:00	10/24/2021 15:00	705.0
10/24/2021 15:00	10/24/2021 16:00	712.6
10/24/2021 16:00	10/24/2021 17:00	784.4
10/24/2021 17:00	10/24/2021 18:00	838.7
10/24/2021 18:00	10/24/2021 19:00	848.6
10/24/2021 19:00	10/24/2021 20:00	848.1
10/24/2021 20:00	10/24/2021 21:00	778.0
10/24/2021 21:00	10/24/2021 22:00	704.6
10/24/2021 22:00	10/24/2021 23:00	669.6
10/24/2021 23:00	10/25/2021 0:00	620.3
10/25/2021 0:00	10/25/2021 1:00	627.8
10/25/2021 1:00	10/25/2021 2:00	623.1
10/25/2021 2:00	10/25/2021 3:00	660.2
10/25/2021 3:00	10/25/2021 4:00	666.7
10/25/2021 4:00	10/25/2021 5:00	675.1
10/25/2021 5:00	10/25/2021 6:00	679.7
10/25/2021 6:00	10/25/2021 7:00	777.7
10/25/2021 7:00	10/25/2021 8:00	953.7
10/25/2021 8:00	10/25/2021 9:00	1046.9
10/25/2021 9:00	10/25/2021 10:00	1050.6
10/25/2021 10:00	10/25/2021 11:00	1090.3
10/25/2021 11:00	10/25/2021 12:00	1143.5
10/25/2021 12:00	10/25/2021 13:00	1156.8
10/25/2021 13:00	10/25/2021 14:00	1159.0
10/25/2021 14:00	10/25/2021 15:00	1154.3
10/25/2021 15:00	10/25/2021 16:00	1164.0
10/25/2021 16:00	10/25/2021 17:00	1217.9
10/25/2021 17:00	10/25/2021 18:00	1275.1
10/25/2021 18:00	10/25/2021 19:00	1280.2
10/25/2021 19:00	10/25/2021 20:00	1259.9
10/25/2021 20:00	10/25/2021 21:00	1221.6
10/25/2021 21:00	10/25/2021 22:00	1179.9
10/25/2021 22:00	10/25/2021 23:00	1116.7
10/25/2021 23:00	10/26/2021 0:00	1052.2
10/26/2021 0:00	10/26/2021 1:00	1013.3
10/26/2021 1:00	10/26/2021 2:00	973.9
10/26/2021 2:00	10/26/2021 3:00	947.7
10/26/2021 3:00	10/26/2021 4:00	925.1
10/26/2021 4:00	10/26/2021 5:00	925.9
10/26/2021 5:00	10/26/2021 6:00	967.5
10/26/2021 6:00	10/26/2021 7:00	1074.4
10/26/2021 7:00	10/26/2021 8:00	1159.0
10/26/2021 8:00	10/26/2021 9:00	1172.2
10/26/2021 9:00	10/26/2021 10:00	1173.8
10/26/2021 10:00	10/26/2021 11:00	1178.0
10/26/2021 11:00	10/26/2021 12:00	1167.5
10/26/2021 12:00	10/26/2021 13:00	1143.1
10/26/2021 13:00	10/26/2021 14:00	1116.0
10/26/2021 14:00	10/26/2021 15:00	1070.0

Start Time	End Time	ANL_MW
10/26/2021 15:00	10/26/2021 16:00	1037.6
10/26/2021 16:00	10/26/2021 17:00	1055.5
10/26/2021 17:00	10/26/2021 18:00	1094.9
10/26/2021 18:00	10/26/2021 19:00	1060.3
10/26/2021 19:00	10/26/2021 20:00	982.7
10/26/2021 20:00	10/26/2021 21:00	935.6
10/26/2021 21:00	10/26/2021 22:00	836.5
10/26/2021 22:00	10/26/2021 23:00	774.4
10/26/2021 23:00	10/27/2021 0:00	723.8
10/27/2021 0:00	10/27/2021 1:00	672.4
10/27/2021 1:00	10/27/2021 2:00	616.6
10/27/2021 2:00	10/27/2021 3:00	596.3
10/27/2021 3:00	10/27/2021 4:00	612.7
10/27/2021 4:00	10/27/2021 5:00	620.9
10/27/2021 5:00	10/27/2021 6:00	631.1
10/27/2021 6:00	10/27/2021 7:00	708.8
10/27/2021 7:00	10/27/2021 8:00	841.6
10/27/2021 8:00	10/27/2021 9:00	892.6
10/27/2021 9:00	10/27/2021 10:00	911.4
10/27/2021 10:00	10/27/2021 11:00	922.5
10/27/2021 11:00	10/27/2021 12:00	926.1
10/27/2021 12:00	10/27/2021 13:00	916.4
10/27/2021 13:00	10/27/2021 14:00	905.7
10/27/2021 14:00	10/27/2021 15:00	874.4
10/27/2021 15:00	10/27/2021 16:00	900.6
10/27/2021 16:00	10/27/2021 17:00	934.0
10/27/2021 17:00	10/27/2021 18:00	963.1
10/27/2021 18:00	10/27/2021 19:00	970.5
10/27/2021 19:00	10/27/2021 20:00	898.8
10/27/2021 20:00	10/27/2021 21:00	876.5
10/27/2021 21:00	10/27/2021 22:00	824.4
10/27/2021 22:00	10/27/2021 23:00	783.8
10/27/2021 23:00	10/28/2021 0:00	701.9
10/28/2021 0:00	10/28/2021 1:00	617.1
10/28/2021 1:00	10/28/2021 2:00	567.5
10/28/2021 2:00	10/28/2021 3:00	569.2
10/28/2021 3:00	10/28/2021 4:00	615.8
10/28/2021 4:00	10/28/2021 5:00	601.0
10/28/2021 5:00	10/28/2021 6:00	600.5
10/28/2021 6:00	10/28/2021 7:00	733.8
10/28/2021 7:00	10/28/2021 8:00	855.8
10/28/2021 8:00	10/28/2021 9:00	878.7
10/28/2021 9:00	10/28/2021 10:00	913.0
10/28/2021 10:00	10/28/2021 11:00	900.0
10/28/2021 11:00	10/28/2021 12:00	831.8
10/28/2021 12:00	10/28/2021 13:00	828.9
10/28/2021 13:00	10/28/2021 14:00	799.1
10/28/2021 14:00	10/28/2021 15:00	784.5
10/28/2021 15:00	10/28/2021 16:00	784.4
10/28/2021 16:00	10/28/2021 17:00	836.9
10/28/2021 17:00	10/28/2021 18:00	897.7
10/28/2021 18:00	10/28/2021 19:00	915.8
10/28/2021 19:00	10/28/2021 20:00	903.8
10/28/2021 20:00	10/28/2021 21:00	881.5
10/28/2021 21:00	10/28/2021 22:00	858.7
10/28/2021 22:00	10/28/2021 23:00	795.2
10/28/2021 23:00	10/29/2021 0:00	764.6
10/29/2021 0:00	10/29/2021 1:00	736.9
10/29/2021 1:00	10/29/2021 2:00	701.7
10/29/2021 2:00	10/29/2021 3:00	688.3
10/29/2021 3:00	10/29/2021 4:00	689.4
10/29/2021 4:00	10/29/2021 5:00	693.5
10/29/2021 5:00	10/29/2021 6:00	760.7
10/29/2021 6:00	10/29/2021 7:00	905.3
10/29/2021 7:00	10/29/2021 8:00	1031.4
10/29/2021 8:00	10/29/2021 9:00	1025.5
10/29/2021 9:00	10/29/2021 10:00	1049.6
10/29/2021 10:00	10/29/2021 11:00	1047.3
10/29/2021 11:00	10/29/2021 12:00	1043.2
10/29/2021 12:00	10/29/2021 13:00	1034.3

Start Time	End Time	ANL_MW
10/29/2021 13:00	10/29/2021 14:00	1039.9
10/29/2021 14:00	10/29/2021 15:00	1012.3
10/29/2021 15:00	10/29/2021 16:00	1024.9
10/29/2021 16:00	10/29/2021 17:00	1038.9
10/29/2021 17:00	10/29/2021 18:00	1050.5
10/29/2021 18:00	10/29/2021 19:00	1047.9
10/29/2021 19:00	10/29/2021 20:00	1027.7
10/29/2021 20:00	10/29/2021 21:00	1027.9
10/29/2021 21:00	10/29/2021 22:00	999.9
10/29/2021 22:00	10/29/2021 23:00	953.0
10/29/2021 23:00	10/30/2021 0:00	954.4
10/30/2021 0:00	10/30/2021 1:00	935.3
10/30/2021 1:00	10/30/2021 2:00	926.6
10/30/2021 2:00	10/30/2021 3:00	900.2
10/30/2021 3:00	10/30/2021 4:00	893.4
10/30/2021 4:00	10/30/2021 5:00	898.4
10/30/2021 5:00	10/30/2021 6:00	953.1
10/30/2021 6:00	10/30/2021 7:00	1030.7
10/30/2021 7:00	10/30/2021 8:00	1094.4
10/30/2021 8:00	10/30/2021 9:00	1185.6
10/30/2021 9:00	10/30/2021 10:00	1202.6
10/30/2021 10:00	10/30/2021 11:00	1211.1
10/30/2021 11:00	10/30/2021 12:00	1197.5
10/30/2021 12:00	10/30/2021 13:00	1166.0
10/30/2021 13:00	10/30/2021 14:00	1106.0
10/30/2021 14:00	10/30/2021 15:00	1118.3
10/30/2021 15:00	10/30/2021 16:00	1130.8
10/30/2021 16:00	10/30/2021 17:00	1176.6
10/30/2021 17:00	10/30/2021 18:00	1173.2
10/30/2021 18:00	10/30/2021 19:00	1157.1
10/30/2021 19:00	10/30/2021 20:00	1130.0
10/30/2021 20:00	10/30/2021 21:00	1116.6
10/30/2021 21:00	10/30/2021 22:00	1065.3
10/30/2021 22:00	10/30/2021 23:00	949.8
10/30/2021 23:00	10/31/2021 0:00	876.6
10/31/2021 0:00	10/31/2021 1:00	788.8
10/31/2021 1:00	10/31/2021 2:00	737.0
10/31/2021 2:00	10/31/2021 3:00	669.3
10/31/2021 3:00	10/31/2021 4:00	582.8
10/31/2021 4:00	10/31/2021 5:00	540.4
10/31/2021 5:00	10/31/2021 6:00	520.6
10/31/2021 6:00	10/31/2021 7:00	514.7
10/31/2021 7:00	10/31/2021 8:00	595.8
10/31/2021 8:00	10/31/2021 9:00	646.3
10/31/2021 9:00	10/31/2021 10:00	661.9
10/31/2021 10:00	10/31/2021 11:00	697.3
10/31/2021 11:00	10/31/2021 12:00	726.4
10/31/2021 12:00	10/31/2021 13:00	738.4
10/31/2021 13:00	10/31/2021 14:00	721.1
10/31/2021 14:00	10/31/2021 15:00	710.8
10/31/2021 15:00	10/31/2021 16:00	698.0
10/31/2021 16:00	10/31/2021 17:00	711.4
10/31/2021 17:00	10/31/2021 18:00	712.5
10/31/2021 18:00	10/31/2021 19:00	739.5
10/31/2021 19:00	10/31/2021 20:00	764.4
10/31/2021 20:00	10/31/2021 21:00	764.3
10/31/2021 21:00	10/31/2021 22:00	718.8
10/31/2021 22:00	10/31/2021 23:00	652.5
10/31/2021 23:00	11/1/2021 0:00	584.9
11/1/2021 0:00	11/1/2021 1:00	608.2
11/1/2021 1:00	11/1/2021 2:00	603.8
11/1/2021 2:00	11/1/2021 3:00	608.7
11/1/2021 3:00	11/1/2021 4:00	628.9
11/1/2021 4:00	11/1/2021 5:00	655.4
11/1/2021 5:00	11/1/2021 6:00	692.4
11/1/2021 6:00	11/1/2021 7:00	773.2
11/1/2021 7:00	11/1/2021 8:00	863.4
11/1/2021 8:00	11/1/2021 9:00	870.4
11/1/2021 9:00	11/1/2021 10:00	875.1
11/1/2021 10:00	11/1/2021 11:00	882.1

Start Time	End Time	ANL_MW
11/1/2021 11:00	11/1/2021 12:00	875.4
11/1/2021 12:00	11/1/2021 13:00	862.3
11/1/2021 13:00	11/1/2021 14:00	827.5
11/1/2021 14:00	11/1/2021 15:00	803.7
11/1/2021 15:00	11/1/2021 16:00	812.3
11/1/2021 16:00	11/1/2021 17:00	860.6
11/1/2021 17:00	11/1/2021 18:00	894.1
11/1/2021 18:00	11/1/2021 19:00	874.0
11/1/2021 19:00	11/1/2021 20:00	795.1
11/1/2021 20:00	11/1/2021 21:00	727.8
11/1/2021 21:00	11/1/2021 22:00	685.1
11/1/2021 22:00	11/1/2021 23:00	624.8
11/1/2021 23:00	11/2/2021 0:00	604.4
11/2/2021 0:00	11/2/2021 1:00	582.0
11/2/2021 1:00	11/2/2021 2:00	574.1
11/2/2021 2:00	11/2/2021 3:00	595.1
11/2/2021 3:00	11/2/2021 4:00	642.9
11/2/2021 4:00	11/2/2021 5:00	710.8
11/2/2021 5:00	11/2/2021 6:00	795.6
11/2/2021 6:00	11/2/2021 7:00	950.7
11/2/2021 7:00	11/2/2021 8:00	1101.9
11/2/2021 8:00	11/2/2021 9:00	1150.5
11/2/2021 9:00	11/2/2021 10:00	1132.2
11/2/2021 10:00	11/2/2021 11:00	1122.9
11/2/2021 11:00	11/2/2021 12:00	1069.4
11/2/2021 12:00	11/2/2021 13:00	973.6
11/2/2021 13:00	11/2/2021 14:00	924.1
11/2/2021 14:00	11/2/2021 15:00	870.7
11/2/2021 15:00	11/2/2021 16:00	905.2
11/2/2021 16:00	11/2/2021 17:00	981.0
11/2/2021 17:00	11/2/2021 18:00	1068.7
11/2/2021 18:00	11/2/2021 19:00	1100.6
11/2/2021 19:00	11/2/2021 20:00	1083.8
11/2/2021 20:00	11/2/2021 21:00	1067.7
11/2/2021 21:00	11/2/2021 22:00	1012.9
11/2/2021 22:00	11/2/2021 23:00	938.9
11/2/2021 23:00	11/3/2021 0:00	871.8
11/3/2021 0:00	11/3/2021 1:00	836.4
11/3/2021 1:00	11/3/2021 2:00	798.3
11/3/2021 2:00	11/3/2021 3:00	768.0
11/3/2021 3:00	11/3/2021 4:00	786.8
11/3/2021 4:00	11/3/2021 5:00	813.8
11/3/2021 5:00	11/3/2021 6:00	872.1
11/3/2021 6:00	11/3/2021 7:00	1024.4
11/3/2021 7:00	11/3/2021 8:00	1147.6
11/3/2021 8:00	11/3/2021 9:00	1176.8
11/3/2021 9:00	11/3/2021 10:00	1186.3
11/3/2021 10:00	11/3/2021 11:00	1213.8
11/3/2021 11:00	11/3/2021 12:00	1224.7
11/3/2021 12:00	11/3/2021 13:00	1222.7
11/3/2021 13:00	11/3/2021 14:00	1210.3
11/3/2021 14:00	11/3/2021 15:00	1194.8
11/3/2021 15:00	11/3/2021 16:00	1194.8
11/3/2021 16:00	11/3/2021 17:00	1234.5
11/3/2021 17:00	11/3/2021 18:00	1275.7
11/3/2021 18:00	11/3/2021 19:00	1278.3
11/3/2021 19:00	11/3/2021 20:00	1234.4
11/3/2021 20:00	11/3/2021 21:00	1159.4
11/3/2021 21:00	11/3/2021 22:00	1100.4
11/3/2021 22:00	11/3/2021 23:00	990.3
11/3/2021 23:00	11/4/2021 0:00	919.4
11/4/2021 0:00	11/4/2021 1:00	844.6
11/4/2021 1:00	11/4/2021 2:00	769.4
11/4/2021 2:00	11/4/2021 3:00	718.0
11/4/2021 3:00	11/4/2021 4:00	715.0
11/4/2021 4:00	11/4/2021 5:00	750.8
11/4/2021 5:00	11/4/2021 6:00	881.4
11/4/2021 6:00	11/4/2021 7:00	1031.5
11/4/2021 7:00	11/4/2021 8:00	1189.7
11/4/2021 8:00	11/4/2021 9:00	1272.1

Start Time	End Time	ANL_MW
11/4/2021 9:00	11/4/2021 10:00	1300.6
11/4/2021 10:00	11/4/2021 11:00	1276.4
11/4/2021 11:00	11/4/2021 12:00	1227.6
11/4/2021 12:00	11/4/2021 13:00	1197.3
11/4/2021 13:00	11/4/2021 14:00	1194.4
11/4/2021 14:00	11/4/2021 15:00	1183.1
11/4/2021 15:00	11/4/2021 16:00	1194.5
11/4/2021 16:00	11/4/2021 17:00	1242.5
11/4/2021 17:00	11/4/2021 18:00	1309.3
11/4/2021 18:00	11/4/2021 19:00	1368.6
11/4/2021 19:00	11/4/2021 20:00	1361.0
11/4/2021 20:00	11/4/2021 21:00	1326.4
11/4/2021 21:00	11/4/2021 22:00	1289.3
11/4/2021 22:00	11/4/2021 23:00	1227.0
11/4/2021 23:00	11/5/2021 0:00	1201.2
11/5/2021 0:00	11/5/2021 1:00	1185.2
11/5/2021 1:00	11/5/2021 2:00	1175.4
11/5/2021 2:00	11/5/2021 3:00	1156.8
11/5/2021 3:00	11/5/2021 4:00	1160.1
11/5/2021 4:00	11/5/2021 5:00	1182.1
11/5/2021 5:00	11/5/2021 6:00	1228.5
11/5/2021 6:00	11/5/2021 7:00	1301.7
11/5/2021 7:00	11/5/2021 8:00	1379.9
11/5/2021 8:00	11/5/2021 9:00	1403.6
11/5/2021 9:00	11/5/2021 10:00	1388.5
11/5/2021 10:00	11/5/2021 11:00	1353.3
11/5/2021 11:00	11/5/2021 12:00	1323.6
11/5/2021 12:00	11/5/2021 13:00	1281.1
11/5/2021 13:00	11/5/2021 14:00	1250.5
11/5/2021 14:00	11/5/2021 15:00	1198.6
11/5/2021 15:00	11/5/2021 16:00	1190.2
11/5/2021 16:00	11/5/2021 17:00	1201.8
11/5/2021 17:00	11/5/2021 18:00	1247.9
11/5/2021 18:00	11/5/2021 19:00	1243.8
11/5/2021 19:00	11/5/2021 20:00	1212.5
11/5/2021 20:00	11/5/2021 21:00	1200.1
11/5/2021 21:00	11/5/2021 22:00	1176.5
11/5/2021 22:00	11/5/2021 23:00	1145.9
11/5/2021 23:00	11/6/2021 0:00	1128.6
11/6/2021 0:00	11/6/2021 1:00	1070.7
11/6/2021 1:00	11/6/2021 2:00	1056.6
11/6/2021 2:00	11/6/2021 3:00	1017.2
11/6/2021 3:00	11/6/2021 4:00	1005.3
11/6/2021 4:00	11/6/2021 5:00	1019.3
11/6/2021 5:00	11/6/2021 6:00	1077.8
11/6/2021 6:00	11/6/2021 7:00	1180.8
11/6/2021 7:00	11/6/2021 8:00	1213.6
11/6/2021 8:00	11/6/2021 9:00	1287.3
11/6/2021 9:00	11/6/2021 10:00	1308.7
11/6/2021 10:00	11/6/2021 11:00	1286.1
11/6/2021 11:00	11/6/2021 12:00	1253.4
11/6/2021 12:00	11/6/2021 13:00	1212.5
11/6/2021 13:00	11/6/2021 14:00	1102.9
11/6/2021 14:00	11/6/2021 15:00	1018.0
11/6/2021 15:00	11/6/2021 16:00	1005.3
11/6/2021 16:00	11/6/2021 17:00	1030.2
11/6/2021 17:00	11/6/2021 18:00	1127.0
11/6/2021 18:00	11/6/2021 19:00	1144.0
11/6/2021 19:00	11/6/2021 20:00	1088.6
11/6/2021 20:00	11/6/2021 21:00	992.9
11/6/2021 21:00	11/6/2021 22:00	877.1
11/6/2021 22:00	11/6/2021 23:00	809.9
11/6/2021 23:00	11/7/2021 0:00	803.2
11/7/2021 0:00	11/7/2021 1:00	787.9
11/7/2021 1:00	11/7/2021 2:00	759.0
11/7/2021 1:00	11/7/2021 2:00	764.2
11/7/2021 2:00	11/7/2021 3:00	746.6
11/7/2021 3:00	11/7/2021 4:00	756.8
11/7/2021 4:00	11/7/2021 5:00	794.4
11/7/2021 5:00	11/7/2021 6:00	894.5

Start Time	End Time	ANL_MW
11/7/2021 6:00	11/7/2021 7:00	999.3
11/7/2021 7:00	11/7/2021 8:00	1093.7
11/7/2021 8:00	11/7/2021 9:00	1170.7
11/7/2021 9:00	11/7/2021 10:00	1251.3
11/7/2021 10:00	11/7/2021 11:00	1238.4
11/7/2021 11:00	11/7/2021 12:00	1162.5
11/7/2021 12:00	11/7/2021 13:00	1144.8
11/7/2021 13:00	11/7/2021 14:00	1108.3
11/7/2021 14:00	11/7/2021 15:00	1084.4
11/7/2021 15:00	11/7/2021 16:00	1133.6
11/7/2021 16:00	11/7/2021 17:00	1246.4
11/7/2021 17:00	11/7/2021 18:00	1298.7
11/7/2021 18:00	11/7/2021 19:00	1252.7
11/7/2021 19:00	11/7/2021 20:00	1212.6
11/7/2021 20:00	11/7/2021 21:00	1169.0
11/7/2021 21:00	11/7/2021 22:00	1120.6
11/7/2021 22:00	11/7/2021 23:00	1077.5
11/7/2021 23:00	11/8/2021 0:00	1045.1
11/8/2021 0:00	11/8/2021 1:00	1033.0
11/8/2021 1:00	11/8/2021 2:00	1039.0
11/8/2021 2:00	11/8/2021 3:00	1029.8
11/8/2021 3:00	11/8/2021 4:00	1034.2
11/8/2021 4:00	11/8/2021 5:00	1095.3
11/8/2021 5:00	11/8/2021 6:00	1184.5
11/8/2021 6:00	11/8/2021 7:00	1303.6
11/8/2021 7:00	11/8/2021 8:00	1379.3
11/8/2021 8:00	11/8/2021 9:00	1363.1
11/8/2021 9:00	11/8/2021 10:00	1353.8
11/8/2021 10:00	11/8/2021 11:00	1350.9
11/8/2021 11:00	11/8/2021 12:00	1331.9
11/8/2021 12:00	11/8/2021 13:00	1301.5
11/8/2021 13:00	11/8/2021 14:00	1280.3
11/8/2021 14:00	11/8/2021 15:00	1248.7
11/8/2021 15:00	11/8/2021 16:00	1261.2
11/8/2021 16:00	11/8/2021 17:00	1321.8
11/8/2021 17:00	11/8/2021 18:00	1358.6
11/8/2021 18:00	11/8/2021 19:00	1352.6
11/8/2021 19:00	11/8/2021 20:00	1336.4
11/8/2021 20:00	11/8/2021 21:00	1316.5
11/8/2021 21:00	11/8/2021 22:00	1250.8
11/8/2021 22:00	11/8/2021 23:00	1183.6
11/8/2021 23:00	11/9/2021 0:00	1183.3
11/9/2021 0:00	11/9/2021 1:00	1171.9
11/9/2021 1:00	11/9/2021 2:00	1165.5
11/9/2021 2:00	11/9/2021 3:00	1151.6
11/9/2021 3:00	11/9/2021 4:00	1135.6
11/9/2021 4:00	11/9/2021 5:00	1170.8
11/9/2021 5:00	11/9/2021 6:00	1243.2
11/9/2021 6:00	11/9/2021 7:00	1280.6
11/9/2021 7:00	11/9/2021 8:00	1310.9
11/9/2021 8:00	11/9/2021 9:00	1269.3
11/9/2021 9:00	11/9/2021 10:00	1211.8
11/9/2021 10:00	11/9/2021 11:00	1152.3
11/9/2021 11:00	11/9/2021 12:00	1118.3
11/9/2021 12:00	11/9/2021 13:00	1088.1
11/9/2021 13:00	11/9/2021 14:00	1044.3
11/9/2021 14:00	11/9/2021 15:00	1006.7
11/9/2021 15:00	11/9/2021 16:00	1010.1
11/9/2021 16:00	11/9/2021 17:00	1046.4
11/9/2021 17:00	11/9/2021 18:00	1139.1
11/9/2021 18:00	11/9/2021 19:00	1134.3
11/9/2021 19:00	11/9/2021 20:00	1092.0
11/9/2021 20:00	11/9/2021 21:00	1059.2
11/9/2021 21:00	11/9/2021 22:00	1031.4
11/9/2021 22:00	11/9/2021 23:00	993.9
11/9/2021 23:00	11/10/2021 0:00	976.9
11/10/2021 0:00	11/10/2021 1:00	977.3
11/10/2021 1:00	11/10/2021 2:00	962.1
11/10/2021 2:00	11/10/2021 3:00	992.1
11/10/2021 3:00	11/10/2021 4:00	1033.3

Start Time	End Time	ANL_MW
11/10/2021 4:00	11/10/2021 5:00	1047.7
11/10/2021 5:00	11/10/2021 6:00	1077.8
11/10/2021 6:00	11/10/2021 7:00	1203.6
11/10/2021 7:00	11/10/2021 8:00	1260.9
11/10/2021 8:00	11/10/2021 9:00	1301.0
11/10/2021 9:00	11/10/2021 10:00	1305.6
11/10/2021 10:00	11/10/2021 11:00	1306.3
11/10/2021 11:00	11/10/2021 12:00	1340.4
11/10/2021 12:00	11/10/2021 13:00	1354.2
11/10/2021 13:00	11/10/2021 14:00	1344.2
11/10/2021 14:00	11/10/2021 15:00	1323.3
11/10/2021 15:00	11/10/2021 16:00	1296.7
11/10/2021 16:00	11/10/2021 17:00	1297.0
11/10/2021 17:00	11/10/2021 18:00	1274.0
11/10/2021 18:00	11/10/2021 19:00	1216.5
11/10/2021 19:00	11/10/2021 20:00	1166.4
11/10/2021 20:00	11/10/2021 21:00	1127.2
11/10/2021 21:00	11/10/2021 22:00	1018.5
11/10/2021 22:00	11/10/2021 23:00	920.5
11/10/2021 23:00	11/11/2021 0:00	878.1
11/11/2021 0:00	11/11/2021 1:00	811.0
11/11/2021 1:00	11/11/2021 2:00	813.3
11/11/2021 2:00	11/11/2021 3:00	796.4
11/11/2021 3:00	11/11/2021 4:00	802.6
11/11/2021 4:00	11/11/2021 5:00	828.5
11/11/2021 5:00	11/11/2021 6:00	835.9
11/11/2021 6:00	11/11/2021 7:00	895.7
11/11/2021 7:00	11/11/2021 8:00	963.9
11/11/2021 8:00	11/11/2021 9:00	1007.2
11/11/2021 9:00	11/11/2021 10:00	1046.2
11/11/2021 10:00	11/11/2021 11:00	1058.6
11/11/2021 11:00	11/11/2021 12:00	1003.2
11/11/2021 12:00	11/11/2021 13:00	921.3
11/11/2021 13:00	11/11/2021 14:00	894.4
11/11/2021 14:00	11/11/2021 15:00	917.2
11/11/2021 15:00	11/11/2021 16:00	974.8
11/11/2021 16:00	11/11/2021 17:00	1122.3
11/11/2021 17:00	11/11/2021 18:00	1229.6
11/11/2021 18:00	11/11/2021 19:00	1198.4
11/11/2021 19:00	11/11/2021 20:00	1149.8
11/11/2021 20:00	11/11/2021 21:00	1136.0
11/11/2021 21:00	11/11/2021 22:00	1108.1
11/11/2021 22:00	11/11/2021 23:00	1059.8
11/11/2021 23:00	11/12/2021 0:00	1058.4
11/12/2021 0:00	11/12/2021 1:00	1094.9
11/12/2021 1:00	11/12/2021 2:00	1116.3
11/12/2021 2:00	11/12/2021 3:00	1126.5
11/12/2021 3:00	11/12/2021 4:00	1136.0
11/12/2021 4:00	11/12/2021 5:00	1166.4
11/12/2021 5:00	11/12/2021 6:00	1235.2
11/12/2021 6:00	11/12/2021 7:00	1294.8
11/12/2021 7:00	11/12/2021 8:00	1384.0
11/12/2021 8:00	11/12/2021 9:00	1381.4
11/12/2021 9:00	11/12/2021 10:00	1356.7
11/12/2021 10:00	11/12/2021 11:00	1339.3
11/12/2021 11:00	11/12/2021 12:00	1306.8
11/12/2021 12:00	11/12/2021 13:00	1282.6
11/12/2021 13:00	11/12/2021 14:00	1262.2
11/12/2021 14:00	11/12/2021 15:00	1202.3
11/12/2021 15:00	11/12/2021 16:00	1212.8
11/12/2021 16:00	11/12/2021 17:00	1238.5
11/12/2021 17:00	11/12/2021 18:00	1210.0
11/12/2021 18:00	11/12/2021 19:00	1120.0
11/12/2021 19:00	11/12/2021 20:00	1015.5
11/12/2021 20:00	11/12/2021 21:00	908.0
11/12/2021 21:00	11/12/2021 22:00	861.7
11/12/2021 22:00	11/12/2021 23:00	792.5
11/12/2021 23:00	11/13/2021 0:00	707.5
11/13/2021 0:00	11/13/2021 1:00	684.7
11/13/2021 1:00	11/13/2021 2:00	685.6

Start Time	End Time	ANL_MW
11/13/2021 2:00	11/13/2021 3:00	684.8
11/13/2021 3:00	11/13/2021 4:00	680.1
11/13/2021 4:00	11/13/2021 5:00	692.4
11/13/2021 5:00	11/13/2021 6:00	696.7
11/13/2021 6:00	11/13/2021 7:00	714.6
11/13/2021 7:00	11/13/2021 8:00	794.6
11/13/2021 8:00	11/13/2021 9:00	828.8
11/13/2021 9:00	11/13/2021 10:00	880.6
11/13/2021 10:00	11/13/2021 11:00	966.2
11/13/2021 11:00	11/13/2021 12:00	992.0
11/13/2021 12:00	11/13/2021 13:00	1017.0
11/13/2021 13:00	11/13/2021 14:00	1016.9
11/13/2021 14:00	11/13/2021 15:00	1040.5
11/13/2021 15:00	11/13/2021 16:00	1103.5
11/13/2021 16:00	11/13/2021 17:00	1153.2
11/13/2021 17:00	11/13/2021 18:00	1186.4
11/13/2021 18:00	11/13/2021 19:00	1187.9
11/13/2021 19:00	11/13/2021 20:00	1153.6
11/13/2021 20:00	11/13/2021 21:00	1103.7
11/13/2021 21:00	11/13/2021 22:00	1056.5
11/13/2021 22:00	11/13/2021 23:00	981.3
11/13/2021 23:00	11/14/2021 0:00	937.2
11/14/2021 0:00	11/14/2021 1:00	874.0
11/14/2021 1:00	11/14/2021 2:00	837.1
11/14/2021 2:00	11/14/2021 3:00	821.7
11/14/2021 3:00	11/14/2021 4:00	814.2
11/14/2021 4:00	11/14/2021 5:00	831.6
11/14/2021 5:00	11/14/2021 6:00	848.9
11/14/2021 6:00	11/14/2021 7:00	865.2
11/14/2021 7:00	11/14/2021 8:00	857.8
11/14/2021 8:00	11/14/2021 9:00	861.1
11/14/2021 9:00	11/14/2021 10:00	847.8
11/14/2021 10:00	11/14/2021 11:00	862.7
11/14/2021 11:00	11/14/2021 12:00	845.1
11/14/2021 12:00	11/14/2021 13:00	863.1
11/14/2021 13:00	11/14/2021 14:00	858.9
11/14/2021 14:00	11/14/2021 15:00	861.4
11/14/2021 15:00	11/14/2021 16:00	927.3
11/14/2021 16:00	11/14/2021 17:00	1109.7
11/14/2021 17:00	11/14/2021 18:00	1270.0
11/14/2021 18:00	11/14/2021 19:00	1216.9
11/14/2021 19:00	11/14/2021 20:00	1172.9
11/14/2021 20:00	11/14/2021 21:00	1120.2
11/14/2021 21:00	11/14/2021 22:00	1079.9
11/14/2021 22:00	11/14/2021 23:00	1044.8
11/14/2021 23:00	11/15/2021 0:00	1006.4
11/15/2021 0:00	11/15/2021 1:00	955.5
11/15/2021 1:00	11/15/2021 2:00	920.3
11/15/2021 2:00	11/15/2021 3:00	943.6
11/15/2021 3:00	11/15/2021 4:00	1014.1
11/15/2021 4:00	11/15/2021 5:00	1026.5
11/15/2021 5:00	11/15/2021 6:00	1070.9
11/15/2021 6:00	11/15/2021 7:00	1099.1
11/15/2021 7:00	11/15/2021 8:00	1069.2
11/15/2021 8:00	11/15/2021 9:00	1063.6
11/15/2021 9:00	11/15/2021 10:00	1071.2
11/15/2021 10:00	11/15/2021 11:00	1101.2
11/15/2021 11:00	11/15/2021 12:00	1107.4
11/15/2021 12:00	11/15/2021 13:00	1115.3
11/15/2021 13:00	11/15/2021 14:00	1080.5
11/15/2021 14:00	11/15/2021 15:00	1098.9
11/15/2021 15:00	11/15/2021 16:00	1127.1
11/15/2021 16:00	11/15/2021 17:00	1153.2
11/15/2021 17:00	11/15/2021 18:00	1163.1
11/15/2021 18:00	11/15/2021 19:00	1028.4
11/15/2021 19:00	11/15/2021 20:00	910.5
11/15/2021 20:00	11/15/2021 21:00	863.5
11/15/2021 21:00	11/15/2021 22:00	821.8
11/15/2021 22:00	11/15/2021 23:00	763.9
11/15/2021 23:00	11/16/2021 0:00	723.3

Start Time	End Time	ANL_MW
11/16/2021 0:00	11/16/2021 1:00	752.5
11/16/2021 1:00	11/16/2021 2:00	735.1
11/16/2021 2:00	11/16/2021 3:00	718.6
11/16/2021 3:00	11/16/2021 4:00	735.6
11/16/2021 4:00	11/16/2021 5:00	726.4
11/16/2021 5:00	11/16/2021 6:00	777.4
11/16/2021 6:00	11/16/2021 7:00	812.9
11/16/2021 7:00	11/16/2021 8:00	926.2
11/16/2021 8:00	11/16/2021 9:00	940.8
11/16/2021 9:00	11/16/2021 10:00	907.9
11/16/2021 10:00	11/16/2021 11:00	925.5
11/16/2021 11:00	11/16/2021 12:00	917.2
11/16/2021 12:00	11/16/2021 13:00	936.4
11/16/2021 13:00	11/16/2021 14:00	976.6
11/16/2021 14:00	11/16/2021 15:00	1017.9
11/16/2021 15:00	11/16/2021 16:00	1061.1
11/16/2021 16:00	11/16/2021 17:00	1101.6
11/16/2021 17:00	11/16/2021 18:00	1159.2
11/16/2021 18:00	11/16/2021 19:00	1120.7
11/16/2021 19:00	11/16/2021 20:00	1067.2
11/16/2021 20:00	11/16/2021 21:00	995.1
11/16/2021 21:00	11/16/2021 22:00	939.6
11/16/2021 22:00	11/16/2021 23:00	850.5
11/16/2021 23:00	11/17/2021 0:00	868.0
11/17/2021 0:00	11/17/2021 1:00	848.5
11/17/2021 1:00	11/17/2021 2:00	839.0
11/17/2021 2:00	11/17/2021 3:00	833.7
11/17/2021 3:00	11/17/2021 4:00	827.1
11/17/2021 4:00	11/17/2021 5:00	851.9
11/17/2021 5:00	11/17/2021 6:00	874.2
11/17/2021 6:00	11/17/2021 7:00	977.5
11/17/2021 7:00	11/17/2021 8:00	1024.6
11/17/2021 8:00	11/17/2021 9:00	1062.9
11/17/2021 9:00	11/17/2021 10:00	1039.4
11/17/2021 10:00	11/17/2021 11:00	1051.9
11/17/2021 11:00	11/17/2021 12:00	1062.2
11/17/2021 12:00	11/17/2021 13:00	1068.7
11/17/2021 13:00	11/17/2021 14:00	1081.1
11/17/2021 14:00	11/17/2021 15:00	1107.8
11/17/2021 15:00	11/17/2021 16:00	1201.7
11/17/2021 16:00	11/17/2021 17:00	1281.5
11/17/2021 17:00	11/17/2021 18:00	1381.2
11/17/2021 18:00	11/17/2021 19:00	1396.3
11/17/2021 19:00	11/17/2021 20:00	1406.8
11/17/2021 20:00	11/17/2021 21:00	1402.2
11/17/2021 21:00	11/17/2021 22:00	1345.4
11/17/2021 22:00	11/17/2021 23:00	1259.5
11/17/2021 23:00	11/18/2021 0:00	1238.7
11/18/2021 0:00	11/18/2021 1:00	1220.1
11/18/2021 1:00	11/18/2021 2:00	1200.3
11/18/2021 2:00	11/18/2021 3:00	1161.9
11/18/2021 3:00	11/18/2021 4:00	1139.9
11/18/2021 4:00	11/18/2021 5:00	1120.0
11/18/2021 5:00	11/18/2021 6:00	1129.6
11/18/2021 6:00	11/18/2021 7:00	1225.0
11/18/2021 7:00	11/18/2021 8:00	1290.9
11/18/2021 8:00	11/18/2021 9:00	1272.5
11/18/2021 9:00	11/18/2021 10:00	1220.3
11/18/2021 10:00	11/18/2021 11:00	1188.6
11/18/2021 11:00	11/18/2021 12:00	1121.8
11/18/2021 12:00	11/18/2021 13:00	1095.5
11/18/2021 13:00	11/18/2021 14:00	1100.9
11/18/2021 14:00	11/18/2021 15:00	1076.1
11/18/2021 15:00	11/18/2021 16:00	1039.3
11/18/2021 16:00	11/18/2021 17:00	1064.8
11/18/2021 17:00	11/18/2021 18:00	1074.8
11/18/2021 18:00	11/18/2021 19:00	1008.7
11/18/2021 19:00	11/18/2021 20:00	952.3
11/18/2021 20:00	11/18/2021 21:00	890.5
11/18/2021 21:00	11/18/2021 22:00	844.7

Start Time	End Time	ANL_MW
11/18/2021 22:00	11/18/2021 23:00	744.4
11/18/2021 23:00	11/19/2021 0:00	659.9
11/19/2021 0:00	11/19/2021 1:00	666.8
11/19/2021 1:00	11/19/2021 2:00	624.7
11/19/2021 2:00	11/19/2021 3:00	607.0
11/19/2021 3:00	11/19/2021 4:00	625.0
11/19/2021 4:00	11/19/2021 5:00	628.7
11/19/2021 5:00	11/19/2021 6:00	662.7
11/19/2021 6:00	11/19/2021 7:00	794.8
11/19/2021 7:00	11/19/2021 8:00	884.8
11/19/2021 8:00	11/19/2021 9:00	979.3
11/19/2021 9:00	11/19/2021 10:00	1054.1
11/19/2021 10:00	11/19/2021 11:00	1037.4
11/19/2021 11:00	11/19/2021 12:00	1133.1
11/19/2021 12:00	11/19/2021 13:00	1167.3
11/19/2021 13:00	11/19/2021 14:00	1057.2
11/19/2021 14:00	11/19/2021 15:00	1005.1
11/19/2021 15:00	11/19/2021 16:00	996.5
11/19/2021 16:00	11/19/2021 17:00	1080.6
11/19/2021 17:00	11/19/2021 18:00	1149.1
11/19/2021 18:00	11/19/2021 19:00	1130.8
11/19/2021 19:00	11/19/2021 20:00	1114.0
11/19/2021 20:00	11/19/2021 21:00	1024.5
11/19/2021 21:00	11/19/2021 22:00	968.0
11/19/2021 22:00	11/19/2021 23:00	927.8
11/19/2021 23:00	11/20/2021 0:00	914.6
11/20/2021 0:00	11/20/2021 1:00	881.2
11/20/2021 1:00	11/20/2021 2:00	860.9
11/20/2021 2:00	11/20/2021 3:00	867.4
11/20/2021 3:00	11/20/2021 4:00	851.7
11/20/2021 4:00	11/20/2021 5:00	875.0
11/20/2021 5:00	11/20/2021 6:00	880.4
11/20/2021 6:00	11/20/2021 7:00	943.3
11/20/2021 7:00	11/20/2021 8:00	1016.4
11/20/2021 8:00	11/20/2021 9:00	1086.9
11/20/2021 9:00	11/20/2021 10:00	1074.6
11/20/2021 10:00	11/20/2021 11:00	1068.9
11/20/2021 11:00	11/20/2021 12:00	1071.2
11/20/2021 12:00	11/20/2021 13:00	1093.8
11/20/2021 13:00	11/20/2021 14:00	1096.2
11/20/2021 14:00	11/20/2021 15:00	1130.3
11/20/2021 15:00	11/20/2021 16:00	1197.2
11/20/2021 16:00	11/20/2021 17:00	1272.0
11/20/2021 17:00	11/20/2021 18:00	1371.0
11/20/2021 18:00	11/20/2021 19:00	1359.6
11/20/2021 19:00	11/20/2021 20:00	1347.6
11/20/2021 20:00	11/20/2021 21:00	1338.4
11/20/2021 21:00	11/20/2021 22:00	1313.9
11/20/2021 22:00	11/20/2021 23:00	1314.4
11/20/2021 23:00	11/21/2021 0:00	1301.9
11/21/2021 0:00	11/21/2021 1:00	1315.3
11/21/2021 1:00	11/21/2021 2:00	1286.9
11/21/2021 2:00	11/21/2021 3:00	1260.5
11/21/2021 3:00	11/21/2021 4:00	1220.7
11/21/2021 4:00	11/21/2021 5:00	1172.4
11/21/2021 5:00	11/21/2021 6:00	1162.5
11/21/2021 6:00	11/21/2021 7:00	1112.3
11/21/2021 7:00	11/21/2021 8:00	1159.4
11/21/2021 8:00	11/21/2021 9:00	1254.2
11/21/2021 9:00	11/21/2021 10:00	1296.1
11/21/2021 10:00	11/21/2021 11:00	1282.8
11/21/2021 11:00	11/21/2021 12:00	1226.4
11/21/2021 12:00	11/21/2021 13:00	1205.1
11/21/2021 13:00	11/21/2021 14:00	1150.9
11/21/2021 14:00	11/21/2021 15:00	1114.7
11/21/2021 15:00	11/21/2021 16:00	1143.5
11/21/2021 16:00	11/21/2021 17:00	1223.0
11/21/2021 17:00	11/21/2021 18:00	1285.9
11/21/2021 18:00	11/21/2021 19:00	1245.6
11/21/2021 19:00	11/21/2021 20:00	1191.7

Start Time	End Time	ANL_MW
11/21/2021 20:00	11/21/2021 21:00	1113.7
11/21/2021 21:00	11/21/2021 22:00	1032.5
11/21/2021 22:00	11/21/2021 23:00	964.1
11/21/2021 23:00	11/22/2021 0:00	884.5
11/22/2021 0:00	11/22/2021 1:00	812.2
11/22/2021 1:00	11/22/2021 2:00	772.4
11/22/2021 2:00	11/22/2021 3:00	756.4
11/22/2021 3:00	11/22/2021 4:00	743.9
11/22/2021 4:00	11/22/2021 5:00	732.4
11/22/2021 5:00	11/22/2021 6:00	729.7
11/22/2021 6:00	11/22/2021 7:00	750.3
11/22/2021 7:00	11/22/2021 8:00	806.4
11/22/2021 8:00	11/22/2021 9:00	831.7
11/22/2021 9:00	11/22/2021 10:00	838.2
11/22/2021 10:00	11/22/2021 11:00	838.6
11/22/2021 11:00	11/22/2021 12:00	867.3
11/22/2021 12:00	11/22/2021 13:00	879.4
11/22/2021 13:00	11/22/2021 14:00	893.1
11/22/2021 14:00	11/22/2021 15:00	927.8
11/22/2021 15:00	11/22/2021 16:00	944.0
11/22/2021 16:00	11/22/2021 17:00	1024.9
11/22/2021 17:00	11/22/2021 18:00	993.7
11/22/2021 18:00	11/22/2021 19:00	968.0
11/22/2021 19:00	11/22/2021 20:00	992.6
11/22/2021 20:00	11/22/2021 21:00	1008.3
11/22/2021 21:00	11/22/2021 22:00	955.0
11/22/2021 22:00	11/22/2021 23:00	848.0
11/22/2021 23:00	11/23/2021 0:00	821.7
11/23/2021 0:00	11/23/2021 1:00	778.1
11/23/2021 1:00	11/23/2021 2:00	760.1
11/23/2021 2:00	11/23/2021 3:00	752.5
11/23/2021 3:00	11/23/2021 4:00	743.7
11/23/2021 4:00	11/23/2021 5:00	701.2
11/23/2021 5:00	11/23/2021 6:00	800.7
11/23/2021 6:00	11/23/2021 7:00	895.1
11/23/2021 7:00	11/23/2021 8:00	953.1
11/23/2021 8:00	11/23/2021 9:00	986.8
11/23/2021 9:00	11/23/2021 10:00	1036.0
11/23/2021 10:00	11/23/2021 11:00	1054.6
11/23/2021 11:00	11/23/2021 12:00	1058.4
11/23/2021 12:00	11/23/2021 13:00	1063.3
11/23/2021 13:00	11/23/2021 14:00	1065.3
11/23/2021 14:00	11/23/2021 15:00	1053.0
11/23/2021 15:00	11/23/2021 16:00	1044.4
11/23/2021 16:00	11/23/2021 17:00	1125.4
11/23/2021 17:00	11/23/2021 18:00	1183.0
11/23/2021 18:00	11/23/2021 19:00	1147.0
11/23/2021 19:00	11/23/2021 20:00	1115.0
11/23/2021 20:00	11/23/2021 21:00	1066.6
11/23/2021 21:00	11/23/2021 22:00	1034.3
11/23/2021 22:00	11/23/2021 23:00	941.4
11/23/2021 23:00	11/24/2021 0:00	988.7
11/24/2021 0:00	11/24/2021 1:00	974.4
11/24/2021 1:00	11/24/2021 2:00	965.2
11/24/2021 2:00	11/24/2021 3:00	926.0
11/24/2021 3:00	11/24/2021 4:00	905.9
11/24/2021 4:00	11/24/2021 5:00	891.0
11/24/2021 5:00	11/24/2021 6:00	930.3
11/24/2021 6:00	11/24/2021 7:00	1005.3
11/24/2021 7:00	11/24/2021 8:00	1134.0
11/24/2021 8:00	11/24/2021 9:00	1177.2
11/24/2021 9:00	11/24/2021 10:00	1187.3
11/24/2021 10:00	11/24/2021 11:00	1195.3
11/24/2021 11:00	11/24/2021 12:00	1196.8
11/24/2021 12:00	11/24/2021 13:00	1222.6
11/24/2021 13:00	11/24/2021 14:00	1218.2
11/24/2021 14:00	11/24/2021 15:00	1202.2
11/24/2021 15:00	11/24/2021 16:00	1212.2
11/24/2021 16:00	11/24/2021 17:00	1285.6
11/24/2021 17:00	11/24/2021 18:00	1340.9

Start Time	End Time	ANL_MW
11/24/2021 18:00	11/24/2021 19:00	1293.6
11/24/2021 19:00	11/24/2021 20:00	1241.9
11/24/2021 20:00	11/24/2021 21:00	1149.5
11/24/2021 21:00	11/24/2021 22:00	1061.8
11/24/2021 22:00	11/24/2021 23:00	977.5
11/24/2021 23:00	11/25/2021 0:00	976.3
11/25/2021 0:00	11/25/2021 1:00	947.2
11/25/2021 1:00	11/25/2021 2:00	893.8
11/25/2021 2:00	11/25/2021 3:00	840.9
11/25/2021 3:00	11/25/2021 4:00	858.3
11/25/2021 4:00	11/25/2021 5:00	871.1
11/25/2021 5:00	11/25/2021 6:00	925.2
11/25/2021 6:00	11/25/2021 7:00	957.7
11/25/2021 7:00	11/25/2021 8:00	1043.5
11/25/2021 8:00	11/25/2021 9:00	1050.5
11/25/2021 9:00	11/25/2021 10:00	1053.6
11/25/2021 10:00	11/25/2021 11:00	1038.8
11/25/2021 11:00	11/25/2021 12:00	1031.0
11/25/2021 12:00	11/25/2021 13:00	1011.2
11/25/2021 13:00	11/25/2021 14:00	982.4
11/25/2021 14:00	11/25/2021 15:00	947.1
11/25/2021 15:00	11/25/2021 16:00	982.6
11/25/2021 16:00	11/25/2021 17:00	1069.3
11/25/2021 17:00	11/25/2021 18:00	1131.7
11/25/2021 18:00	11/25/2021 19:00	1115.9
11/25/2021 19:00	11/25/2021 20:00	1066.3
11/25/2021 20:00	11/25/2021 21:00	1017.5
11/25/2021 21:00	11/25/2021 22:00	954.5
11/25/2021 22:00	11/25/2021 23:00	975.8
11/25/2021 23:00	11/26/2021 0:00	1001.1
11/26/2021 0:00	11/26/2021 1:00	992.0
11/26/2021 1:00	11/26/2021 2:00	976.6
11/26/2021 2:00	11/26/2021 3:00	924.5
11/26/2021 3:00	11/26/2021 4:00	911.7
11/26/2021 4:00	11/26/2021 5:00	943.8
11/26/2021 5:00	11/26/2021 6:00	998.2
11/26/2021 6:00	11/26/2021 7:00	1072.7
11/26/2021 7:00	11/26/2021 8:00	1168.1
11/26/2021 8:00	11/26/2021 9:00	1242.6
11/26/2021 9:00	11/26/2021 10:00	1262.8
11/26/2021 10:00	11/26/2021 11:00	1274.7
11/26/2021 11:00	11/26/2021 12:00	1267.5
11/26/2021 12:00	11/26/2021 13:00	1258.3
11/26/2021 13:00	11/26/2021 14:00	1258.6
11/26/2021 14:00	11/26/2021 15:00	1273.2
11/26/2021 15:00	11/26/2021 16:00	1273.2
11/26/2021 16:00	11/26/2021 17:00	1331.6
11/26/2021 17:00	11/26/2021 18:00	1356.1
11/26/2021 18:00	11/26/2021 19:00	1292.9
11/26/2021 19:00	11/26/2021 20:00	1220.5
11/26/2021 20:00	11/26/2021 21:00	1144.2
11/26/2021 21:00	11/26/2021 22:00	1105.9
11/26/2021 22:00	11/26/2021 23:00	1024.3
11/26/2021 23:00	11/27/2021 0:00	958.9
11/27/2021 0:00	11/27/2021 1:00	882.5
11/27/2021 1:00	11/27/2021 2:00	872.8
11/27/2021 2:00	11/27/2021 3:00	791.6
11/27/2021 3:00	11/27/2021 4:00	753.3
11/27/2021 4:00	11/27/2021 5:00	739.5
11/27/2021 5:00	11/27/2021 6:00	733.9
11/27/2021 6:00	11/27/2021 7:00	737.6
11/27/2021 7:00	11/27/2021 8:00	782.1
11/27/2021 8:00	11/27/2021 9:00	806.4
11/27/2021 9:00	11/27/2021 10:00	862.7
11/27/2021 10:00	11/27/2021 11:00	853.6
11/27/2021 11:00	11/27/2021 12:00	840.8
11/27/2021 12:00	11/27/2021 13:00	837.1
11/27/2021 13:00	11/27/2021 14:00	913.4
11/27/2021 14:00	11/27/2021 15:00	951.4
11/27/2021 15:00	11/27/2021 16:00	988.8

Start Time	End Time	ANL_MW
11/27/2021 16:00	11/27/2021 17:00	1032.8
11/27/2021 17:00	11/27/2021 18:00	1092.4
11/27/2021 18:00	11/27/2021 19:00	1024.7
11/27/2021 19:00	11/27/2021 20:00	1002.7
11/27/2021 20:00	11/27/2021 21:00	1003.9
11/27/2021 21:00	11/27/2021 22:00	981.6
11/27/2021 22:00	11/27/2021 23:00	983.1
11/27/2021 23:00	11/28/2021 0:00	940.9
11/28/2021 0:00	11/28/2021 1:00	898.0
11/28/2021 1:00	11/28/2021 2:00	879.1
11/28/2021 2:00	11/28/2021 3:00	898.5
11/28/2021 3:00	11/28/2021 4:00	904.4
11/28/2021 4:00	11/28/2021 5:00	892.0
11/28/2021 5:00	11/28/2021 6:00	937.3
11/28/2021 6:00	11/28/2021 7:00	950.2
11/28/2021 7:00	11/28/2021 8:00	1000.1
11/28/2021 8:00	11/28/2021 9:00	1055.0
11/28/2021 9:00	11/28/2021 10:00	1089.8
11/28/2021 10:00	11/28/2021 11:00	1111.6
11/28/2021 11:00	11/28/2021 12:00	1153.4
11/28/2021 12:00	11/28/2021 13:00	1149.5
11/28/2021 13:00	11/28/2021 14:00	1109.3
11/28/2021 14:00	11/28/2021 15:00	1109.4
11/28/2021 15:00	11/28/2021 16:00	1198.2
11/28/2021 16:00	11/28/2021 17:00	1287.5
11/28/2021 17:00	11/28/2021 18:00	1397.0
11/28/2021 18:00	11/28/2021 19:00	1354.4
11/28/2021 19:00	11/28/2021 20:00	1324.5
11/28/2021 20:00	11/28/2021 21:00	1291.2
11/28/2021 21:00	11/28/2021 22:00	1247.0
11/28/2021 22:00	11/28/2021 23:00	1168.7
11/28/2021 23:00	11/29/2021 0:00	1171.7
11/29/2021 0:00	11/29/2021 1:00	1174.0
11/29/2021 1:00	11/29/2021 2:00	1184.7
11/29/2021 2:00	11/29/2021 3:00	1186.3
11/29/2021 3:00	11/29/2021 4:00	1194.5
11/29/2021 4:00	11/29/2021 5:00	1219.5
11/29/2021 5:00	11/29/2021 6:00	1258.9
11/29/2021 6:00	11/29/2021 7:00	1359.8
11/29/2021 7:00	11/29/2021 8:00	1401.2
11/29/2021 8:00	11/29/2021 9:00	1385.0
11/29/2021 9:00	11/29/2021 10:00	1331.9
11/29/2021 10:00	11/29/2021 11:00	1274.0
11/29/2021 11:00	11/29/2021 12:00	1245.0
11/29/2021 12:00	11/29/2021 13:00	1173.5
11/29/2021 13:00	11/29/2021 14:00	1166.2
11/29/2021 14:00	11/29/2021 15:00	1202.6
11/29/2021 15:00	11/29/2021 16:00	1245.5
11/29/2021 16:00	11/29/2021 17:00	1275.3
11/29/2021 17:00	11/29/2021 18:00	1377.7
11/29/2021 18:00	11/29/2021 19:00	1310.1
11/29/2021 19:00	11/29/2021 20:00	1288.6
11/29/2021 20:00	11/29/2021 21:00	1261.1
11/29/2021 21:00	11/29/2021 22:00	1191.1
11/29/2021 22:00	11/29/2021 23:00	1085.9
11/29/2021 23:00	11/30/2021 0:00	1039.9
11/30/2021 0:00	11/30/2021 1:00	1015.1
11/30/2021 1:00	11/30/2021 2:00	974.1
11/30/2021 2:00	11/30/2021 3:00	917.1
11/30/2021 3:00	11/30/2021 4:00	896.1
11/30/2021 4:00	11/30/2021 5:00	943.7
11/30/2021 5:00	11/30/2021 6:00	1030.8
11/30/2021 6:00	11/30/2021 7:00	1178.0
11/30/2021 7:00	11/30/2021 8:00	1186.8
11/30/2021 8:00	11/30/2021 9:00	1221.2
11/30/2021 9:00	11/30/2021 10:00	1205.2
11/30/2021 10:00	11/30/2021 11:00	1222.0
11/30/2021 11:00	11/30/2021 12:00	1223.9
11/30/2021 12:00	11/30/2021 13:00	1242.2
11/30/2021 13:00	11/30/2021 14:00	1230.0

Start Time	End Time	ANL_MW
11/30/2021 14:00	11/30/2021 15:00	1257.0
11/30/2021 15:00	11/30/2021 16:00	1278.8
11/30/2021 16:00	11/30/2021 17:00	1373.3
11/30/2021 17:00	11/30/2021 18:00	1418.8
11/30/2021 18:00	11/30/2021 19:00	1386.6
11/30/2021 19:00	11/30/2021 20:00	1370.5
11/30/2021 20:00	11/30/2021 21:00	1360.9
11/30/2021 21:00	11/30/2021 22:00	1308.6
11/30/2021 22:00	11/30/2021 23:00	1312.8
11/30/2021 23:00	12/1/2021 0:00	1327.2
12/1/2021 0:00	12/1/2021 1:00	1305.7
12/1/2021 1:00	12/1/2021 2:00	1266.7
12/1/2021 2:00	12/1/2021 3:00	1255.7
12/1/2021 3:00	12/1/2021 4:00	1243.5
12/1/2021 4:00	12/1/2021 5:00	1237.9
12/1/2021 5:00	12/1/2021 6:00	1327.5
12/1/2021 6:00	12/1/2021 7:00	1449.4
12/1/2021 7:00	12/1/2021 8:00	1531.7
12/1/2021 8:00	12/1/2021 9:00	1550.2
12/1/2021 9:00	12/1/2021 10:00	1516.0
12/1/2021 10:00	12/1/2021 11:00	1474.5
12/1/2021 11:00	12/1/2021 12:00	1440.3
12/1/2021 12:00	12/1/2021 13:00	1399.2
12/1/2021 13:00	12/1/2021 14:00	1338.3
12/1/2021 14:00	12/1/2021 15:00	1299.5
12/1/2021 15:00	12/1/2021 16:00	1326.9
12/1/2021 16:00	12/1/2021 17:00	1383.0
12/1/2021 17:00	12/1/2021 18:00	1409.6
12/1/2021 18:00	12/1/2021 19:00	1361.7
12/1/2021 19:00	12/1/2021 20:00	1269.5
12/1/2021 20:00	12/1/2021 21:00	1233.3
12/1/2021 21:00	12/1/2021 22:00	1186.7
12/1/2021 22:00	12/1/2021 23:00	1165.0
12/1/2021 23:00	12/2/2021 0:00	1199.8
12/2/2021 0:00	12/2/2021 1:00	1210.2
12/2/2021 1:00	12/2/2021 2:00	1188.1
12/2/2021 2:00	12/2/2021 3:00	1186.6
12/2/2021 3:00	12/2/2021 4:00	1246.7
12/2/2021 4:00	12/2/2021 5:00	1292.9
12/2/2021 5:00	12/2/2021 6:00	1346.0
12/2/2021 6:00	12/2/2021 7:00	1473.3
12/2/2021 7:00	12/2/2021 8:00	1478.8
12/2/2021 8:00	12/2/2021 9:00	1435.5
12/2/2021 9:00	12/2/2021 10:00	1360.5
12/2/2021 10:00	12/2/2021 11:00	1267.0
12/2/2021 11:00	12/2/2021 12:00	1253.6
12/2/2021 12:00	12/2/2021 13:00	1217.9
12/2/2021 13:00	12/2/2021 14:00	1180.8
12/2/2021 14:00	12/2/2021 15:00	1161.1
12/2/2021 15:00	12/2/2021 16:00	1168.9
12/2/2021 16:00	12/2/2021 17:00	1255.9
12/2/2021 17:00	12/2/2021 18:00	1291.9
12/2/2021 18:00	12/2/2021 19:00	1239.7
12/2/2021 19:00	12/2/2021 20:00	1170.2
12/2/2021 20:00	12/2/2021 21:00	1119.3
12/2/2021 21:00	12/2/2021 22:00	1018.9
12/2/2021 22:00	12/2/2021 23:00	854.9
12/2/2021 23:00	12/3/2021 0:00	774.4
12/3/2021 0:00	12/3/2021 1:00	773.9
12/3/2021 1:00	12/3/2021 2:00	765.0
12/3/2021 2:00	12/3/2021 3:00	777.8
12/3/2021 3:00	12/3/2021 4:00	739.6
12/3/2021 4:00	12/3/2021 5:00	752.1
12/3/2021 5:00	12/3/2021 6:00	780.8
12/3/2021 6:00	12/3/2021 7:00	842.3
12/3/2021 7:00	12/3/2021 8:00	967.3
12/3/2021 8:00	12/3/2021 9:00	961.3
12/3/2021 9:00	12/3/2021 10:00	969.1
12/3/2021 10:00	12/3/2021 11:00	961.6
12/3/2021 11:00	12/3/2021 12:00	959.5

Start Time	End Time	ANL_MW
12/3/2021 12:00	12/3/2021 13:00	980.7
12/3/2021 13:00	12/3/2021 14:00	983.5
12/3/2021 14:00	12/3/2021 15:00	980.7
12/3/2021 15:00	12/3/2021 16:00	943.2
12/3/2021 16:00	12/3/2021 17:00	1027.6
12/3/2021 17:00	12/3/2021 18:00	1110.0
12/3/2021 18:00	12/3/2021 19:00	1091.5
12/3/2021 19:00	12/3/2021 20:00	1075.2
12/3/2021 20:00	12/3/2021 21:00	1034.8
12/3/2021 21:00	12/3/2021 22:00	1007.0
12/3/2021 22:00	12/3/2021 23:00	1001.3
12/3/2021 23:00	12/4/2021 0:00	990.9
12/4/2021 0:00	12/4/2021 1:00	972.2
12/4/2021 1:00	12/4/2021 2:00	986.1
12/4/2021 2:00	12/4/2021 3:00	995.8
12/4/2021 3:00	12/4/2021 4:00	1002.7
12/4/2021 4:00	12/4/2021 5:00	1018.4
12/4/2021 5:00	12/4/2021 6:00	1066.6
12/4/2021 6:00	12/4/2021 7:00	1110.7
12/4/2021 7:00	12/4/2021 8:00	1157.1
12/4/2021 8:00	12/4/2021 9:00	1248.1
12/4/2021 9:00	12/4/2021 10:00	1306.5
12/4/2021 10:00	12/4/2021 11:00	1325.2
12/4/2021 11:00	12/4/2021 12:00	1344.1
12/4/2021 12:00	12/4/2021 13:00	1336.8
12/4/2021 13:00	12/4/2021 14:00	1333.3
12/4/2021 14:00	12/4/2021 15:00	1363.4
12/4/2021 15:00	12/4/2021 16:00	1436.4
12/4/2021 16:00	12/4/2021 17:00	1536.6
12/4/2021 17:00	12/4/2021 18:00	1622.4
12/4/2021 18:00	12/4/2021 19:00	1579.8
12/4/2021 19:00	12/4/2021 20:00	1538.4
12/4/2021 20:00	12/4/2021 21:00	1511.5
12/4/2021 21:00	12/4/2021 22:00	1463.8
12/4/2021 22:00	12/4/2021 23:00	1392.7
12/4/2021 23:00	12/5/2021 0:00	1329.5
12/5/2021 0:00	12/5/2021 1:00	1308.0
12/5/2021 1:00	12/5/2021 2:00	1329.8
12/5/2021 2:00	12/5/2021 3:00	1314.7
12/5/2021 3:00	12/5/2021 4:00	1329.8
12/5/2021 4:00	12/5/2021 5:00	1332.2
12/5/2021 5:00	12/5/2021 6:00	1380.4
12/5/2021 6:00	12/5/2021 7:00	1420.0
12/5/2021 7:00	12/5/2021 8:00	1439.6
12/5/2021 8:00	12/5/2021 9:00	1493.1
12/5/2021 9:00	12/5/2021 10:00	1512.5
12/5/2021 10:00	12/5/2021 11:00	1483.7
12/5/2021 11:00	12/5/2021 12:00	1387.0
12/5/2021 12:00	12/5/2021 13:00	1342.7
12/5/2021 13:00	12/5/2021 14:00	1291.6
12/5/2021 14:00	12/5/2021 15:00	1262.6
12/5/2021 15:00	12/5/2021 16:00	1336.9
12/5/2021 16:00	12/5/2021 17:00	1501.1
12/5/2021 17:00	12/5/2021 18:00	1576.8
12/5/2021 18:00	12/5/2021 19:00	1566.0
12/5/2021 19:00	12/5/2021 20:00	1562.6
12/5/2021 20:00	12/5/2021 21:00	1572.1
12/5/2021 21:00	12/5/2021 22:00	1523.4
12/5/2021 22:00	12/5/2021 23:00	1466.1
12/5/2021 23:00	12/6/2021 0:00	1463.4
12/6/2021 0:00	12/6/2021 1:00	1413.8
12/6/2021 1:00	12/6/2021 2:00	1410.7
12/6/2021 2:00	12/6/2021 3:00	1406.7
12/6/2021 3:00	12/6/2021 4:00	1375.3
12/6/2021 4:00	12/6/2021 5:00	1387.5
12/6/2021 5:00	12/6/2021 6:00	1352.2
12/6/2021 6:00	12/6/2021 7:00	1423.5
12/6/2021 7:00	12/6/2021 8:00	1439.7
12/6/2021 8:00	12/6/2021 9:00	1408.2
12/6/2021 9:00	12/6/2021 10:00	1365.4

Start Time	End Time	ANL_MW
12/6/2021 10:00	12/6/2021 11:00	1320.5
12/6/2021 11:00	12/6/2021 12:00	1234.9
12/6/2021 12:00	12/6/2021 13:00	1190.3
12/6/2021 13:00	12/6/2021 14:00	1129.4
12/6/2021 14:00	12/6/2021 15:00	1156.1
12/6/2021 15:00	12/6/2021 16:00	1166.4
12/6/2021 16:00	12/6/2021 17:00	1197.6
12/6/2021 17:00	12/6/2021 18:00	1204.9
12/6/2021 18:00	12/6/2021 19:00	1145.9
12/6/2021 19:00	12/6/2021 20:00	1067.4
12/6/2021 20:00	12/6/2021 21:00	987.1
12/6/2021 21:00	12/6/2021 22:00	898.6
12/6/2021 22:00	12/6/2021 23:00	813.7
12/6/2021 23:00	12/7/2021 0:00	768.0
12/7/2021 0:00	12/7/2021 1:00	778.2
12/7/2021 1:00	12/7/2021 2:00	768.2
12/7/2021 2:00	12/7/2021 3:00	755.2
12/7/2021 3:00	12/7/2021 4:00	745.9
12/7/2021 4:00	12/7/2021 5:00	772.3
12/7/2021 5:00	12/7/2021 6:00	784.5
12/7/2021 6:00	12/7/2021 7:00	879.1
12/7/2021 7:00	12/7/2021 8:00	985.9
12/7/2021 8:00	12/7/2021 9:00	1031.5
12/7/2021 9:00	12/7/2021 10:00	1019.1
12/7/2021 10:00	12/7/2021 11:00	949.6
12/7/2021 11:00	12/7/2021 12:00	942.0
12/7/2021 12:00	12/7/2021 13:00	932.3
12/7/2021 13:00	12/7/2021 14:00	920.1
12/7/2021 14:00	12/7/2021 15:00	950.5
12/7/2021 15:00	12/7/2021 16:00	1071.7
12/7/2021 16:00	12/7/2021 17:00	1252.7
12/7/2021 17:00	12/7/2021 18:00	1375.5
12/7/2021 18:00	12/7/2021 19:00	1395.0
12/7/2021 19:00	12/7/2021 20:00	1328.8
12/7/2021 20:00	12/7/2021 21:00	1271.0
12/7/2021 21:00	12/7/2021 22:00	1219.1
12/7/2021 22:00	12/7/2021 23:00	1199.9
12/7/2021 23:00	12/8/2021 0:00	1255.5
12/8/2021 0:00	12/8/2021 1:00	1240.1
12/8/2021 1:00	12/8/2021 2:00	1212.0
12/8/2021 2:00	12/8/2021 3:00	1191.7
12/8/2021 3:00	12/8/2021 4:00	1192.6
12/8/2021 4:00	12/8/2021 5:00	1243.4
12/8/2021 5:00	12/8/2021 6:00	1331.1
12/8/2021 6:00	12/8/2021 7:00	1436.7
12/8/2021 7:00	12/8/2021 8:00	1550.6
12/8/2021 8:00	12/8/2021 9:00	1577.0
12/8/2021 9:00	12/8/2021 10:00	1575.6
12/8/2021 10:00	12/8/2021 11:00	1560.7
12/8/2021 11:00	12/8/2021 12:00	1563.1
12/8/2021 12:00	12/8/2021 13:00	1573.8
12/8/2021 13:00	12/8/2021 14:00	1577.2
12/8/2021 14:00	12/8/2021 15:00	1579.9
12/8/2021 15:00	12/8/2021 16:00	1604.6
12/8/2021 16:00	12/8/2021 17:00	1640.3
12/8/2021 17:00	12/8/2021 18:00	1692.9
12/8/2021 18:00	12/8/2021 19:00	1637.8
12/8/2021 19:00	12/8/2021 20:00	1555.0
12/8/2021 20:00	12/8/2021 21:00	1525.0
12/8/2021 21:00	12/8/2021 22:00	1425.7
12/8/2021 22:00	12/8/2021 23:00	1365.2
12/8/2021 23:00	12/9/2021 0:00	1280.7
12/9/2021 0:00	12/9/2021 1:00	1237.9
12/9/2021 1:00	12/9/2021 2:00	1172.3
12/9/2021 2:00	12/9/2021 3:00	1122.6
12/9/2021 3:00	12/9/2021 4:00	1098.3
12/9/2021 4:00	12/9/2021 5:00	1082.1
12/9/2021 5:00	12/9/2021 6:00	1070.6
12/9/2021 6:00	12/9/2021 7:00	1121.6
12/9/2021 7:00	12/9/2021 8:00	1220.1

Start Time	End Time	ANL_MW
12/9/2021 8:00	12/9/2021 9:00	1322.8
12/9/2021 9:00	12/9/2021 10:00	1342.0
12/9/2021 10:00	12/9/2021 11:00	1356.1
12/9/2021 11:00	12/9/2021 12:00	1321.1
12/9/2021 12:00	12/9/2021 13:00	1306.8
12/9/2021 13:00	12/9/2021 14:00	1278.1
12/9/2021 14:00	12/9/2021 15:00	1280.8
12/9/2021 15:00	12/9/2021 16:00	1332.6
12/9/2021 16:00	12/9/2021 17:00	1471.8
12/9/2021 17:00	12/9/2021 18:00	1558.2
12/9/2021 18:00	12/9/2021 19:00	1524.3
12/9/2021 19:00	12/9/2021 20:00	1491.0
12/9/2021 20:00	12/9/2021 21:00	1453.9
12/9/2021 21:00	12/9/2021 22:00	1412.6
12/9/2021 22:00	12/9/2021 23:00	1351.8
12/9/2021 23:00	12/10/2021 0:00	1347.3
12/10/2021 0:00	12/10/2021 1:00	1378.0
12/10/2021 1:00	12/10/2021 2:00	1403.2
12/10/2021 2:00	12/10/2021 3:00	1390.2
12/10/2021 3:00	12/10/2021 4:00	1425.7
12/10/2021 4:00	12/10/2021 5:00	1493.5
12/10/2021 5:00	12/10/2021 6:00	1582.0
12/10/2021 6:00	12/10/2021 7:00	1644.8
12/10/2021 7:00	12/10/2021 8:00	1725.9
12/10/2021 8:00	12/10/2021 9:00	1733.2
12/10/2021 9:00	12/10/2021 10:00	1701.5
12/10/2021 10:00	12/10/2021 11:00	1666.7
12/10/2021 11:00	12/10/2021 12:00	1655.0
12/10/2021 12:00	12/10/2021 13:00	1650.7
12/10/2021 13:00	12/10/2021 14:00	1623.9
12/10/2021 14:00	12/10/2021 15:00	1603.9
12/10/2021 15:00	12/10/2021 16:00	1608.8
12/10/2021 16:00	12/10/2021 17:00	1646.2
12/10/2021 17:00	12/10/2021 18:00	1647.5
12/10/2021 18:00	12/10/2021 19:00	1554.2
12/10/2021 19:00	12/10/2021 20:00	1423.5
12/10/2021 20:00	12/10/2021 21:00	1343.2
12/10/2021 21:00	12/10/2021 22:00	1262.4
12/10/2021 22:00	12/10/2021 23:00	1167.4
12/10/2021 23:00	12/11/2021 0:00	1144.5
12/11/2021 0:00	12/11/2021 1:00	1106.8
12/11/2021 1:00	12/11/2021 2:00	1078.3
12/11/2021 2:00	12/11/2021 3:00	1046.7
12/11/2021 3:00	12/11/2021 4:00	1028.5
12/11/2021 4:00	12/11/2021 5:00	1038.1
12/11/2021 5:00	12/11/2021 6:00	1080.8
12/11/2021 6:00	12/11/2021 7:00	1145.0
12/11/2021 7:00	12/11/2021 8:00	1190.0
12/11/2021 8:00	12/11/2021 9:00	1274.8
12/11/2021 9:00	12/11/2021 10:00	1319.4
12/11/2021 10:00	12/11/2021 11:00	1339.6
12/11/2021 11:00	12/11/2021 12:00	1319.8
12/11/2021 12:00	12/11/2021 13:00	1293.3
12/11/2021 13:00	12/11/2021 14:00	1232.6
12/11/2021 14:00	12/11/2021 15:00	1144.7
12/11/2021 15:00	12/11/2021 16:00	1096.0
12/11/2021 16:00	12/11/2021 17:00	1149.4
12/11/2021 17:00	12/11/2021 18:00	1178.3
12/11/2021 18:00	12/11/2021 19:00	1097.8
12/11/2021 19:00	12/11/2021 20:00	1061.9
12/11/2021 20:00	12/11/2021 21:00	1018.4
12/11/2021 21:00	12/11/2021 22:00	922.1
12/11/2021 22:00	12/11/2021 23:00	826.8
12/11/2021 23:00	12/12/2021 0:00	769.3
12/12/2021 0:00	12/12/2021 1:00	743.0
12/12/2021 1:00	12/12/2021 2:00	733.5
12/12/2021 2:00	12/12/2021 3:00	692.1
12/12/2021 3:00	12/12/2021 4:00	660.1
12/12/2021 4:00	12/12/2021 5:00	674.5
12/12/2021 5:00	12/12/2021 6:00	720.7

Start Time	End Time	ANL_MW
12/12/2021 6:00	12/12/2021 7:00	708.3
12/12/2021 7:00	12/12/2021 8:00	724.0
12/12/2021 8:00	12/12/2021 9:00	824.3
12/12/2021 9:00	12/12/2021 10:00	927.3
12/12/2021 10:00	12/12/2021 11:00	982.8
12/12/2021 11:00	12/12/2021 12:00	945.9
12/12/2021 12:00	12/12/2021 13:00	970.1
12/12/2021 13:00	12/12/2021 14:00	961.6
12/12/2021 14:00	12/12/2021 15:00	963.4
12/12/2021 15:00	12/12/2021 16:00	1017.1
12/12/2021 16:00	12/12/2021 17:00	1118.1
12/12/2021 17:00	12/12/2021 18:00	1223.1
12/12/2021 18:00	12/12/2021 19:00	1181.1
12/12/2021 19:00	12/12/2021 20:00	1155.4
12/12/2021 20:00	12/12/2021 21:00	1118.7
12/12/2021 21:00	12/12/2021 22:00	1049.4
12/12/2021 22:00	12/12/2021 23:00	992.4
12/12/2021 23:00	12/13/2021 0:00	911.3
12/13/2021 0:00	12/13/2021 1:00	843.3
12/13/2021 1:00	12/13/2021 2:00	832.9
12/13/2021 2:00	12/13/2021 3:00	821.9
12/13/2021 3:00	12/13/2021 4:00	818.3
12/13/2021 4:00	12/13/2021 5:00	840.7
12/13/2021 5:00	12/13/2021 6:00	877.9
12/13/2021 6:00	12/13/2021 7:00	966.3
12/13/2021 7:00	12/13/2021 8:00	1026.1
12/13/2021 8:00	12/13/2021 9:00	1059.5
12/13/2021 9:00	12/13/2021 10:00	1065.2
12/13/2021 10:00	12/13/2021 11:00	1071.1
12/13/2021 11:00	12/13/2021 12:00	1044.2
12/13/2021 12:00	12/13/2021 13:00	1007.5
12/13/2021 13:00	12/13/2021 14:00	1009.1
12/13/2021 14:00	12/13/2021 15:00	1041.7
12/13/2021 15:00	12/13/2021 16:00	1139.8
12/13/2021 16:00	12/13/2021 17:00	1298.3
12/13/2021 17:00	12/13/2021 18:00	1382.1
12/13/2021 18:00	12/13/2021 19:00	1323.8
12/13/2021 19:00	12/13/2021 20:00	1316.0
12/13/2021 20:00	12/13/2021 21:00	1284.3
12/13/2021 21:00	12/13/2021 22:00	1228.8
12/13/2021 22:00	12/13/2021 23:00	1166.4
12/13/2021 23:00	12/14/2021 0:00	1126.5
12/14/2021 0:00	12/14/2021 1:00	1051.4
12/14/2021 1:00	12/14/2021 2:00	976.4
12/14/2021 2:00	12/14/2021 3:00	893.4
12/14/2021 3:00	12/14/2021 4:00	868.5
12/14/2021 4:00	12/14/2021 5:00	837.8
12/14/2021 5:00	12/14/2021 6:00	931.7
12/14/2021 6:00	12/14/2021 7:00	935.6
12/14/2021 7:00	12/14/2021 8:00	999.8
12/14/2021 8:00	12/14/2021 9:00	1008.6
12/14/2021 9:00	12/14/2021 10:00	1089.6
12/14/2021 10:00	12/14/2021 11:00	1082.5
12/14/2021 11:00	12/14/2021 12:00	1044.8
12/14/2021 12:00	12/14/2021 13:00	1018.0
12/14/2021 13:00	12/14/2021 14:00	1010.8
12/14/2021 14:00	12/14/2021 15:00	1002.0
12/14/2021 15:00	12/14/2021 16:00	1032.6
12/14/2021 16:00	12/14/2021 17:00	1146.7
12/14/2021 17:00	12/14/2021 18:00	1270.1
12/14/2021 18:00	12/14/2021 19:00	1248.5
12/14/2021 19:00	12/14/2021 20:00	1234.6
12/14/2021 20:00	12/14/2021 21:00	1186.0
12/14/2021 21:00	12/14/2021 22:00	1133.5
12/14/2021 22:00	12/14/2021 23:00	1065.8
12/14/2021 23:00	12/15/2021 0:00	1067.3
12/15/2021 0:00	12/15/2021 1:00	1045.1
12/15/2021 1:00	12/15/2021 2:00	1031.4
12/15/2021 2:00	12/15/2021 3:00	1008.4
12/15/2021 3:00	12/15/2021 4:00	1003.9

Start Time	End Time	ANL_MW
12/15/2021 4:00	12/15/2021 5:00	992.7
12/15/2021 5:00	12/15/2021 6:00	1058.3
12/15/2021 6:00	12/15/2021 7:00	1156.0
12/15/2021 7:00	12/15/2021 8:00	1246.0
12/15/2021 8:00	12/15/2021 9:00	1284.7
12/15/2021 9:00	12/15/2021 10:00	1235.9
12/15/2021 10:00	12/15/2021 11:00	1208.4
12/15/2021 11:00	12/15/2021 12:00	1223.8
12/15/2021 12:00	12/15/2021 13:00	1216.1
12/15/2021 13:00	12/15/2021 14:00	1188.1
12/15/2021 14:00	12/15/2021 15:00	1180.8
12/15/2021 15:00	12/15/2021 16:00	1258.7
12/15/2021 16:00	12/15/2021 17:00	1443.5
12/15/2021 17:00	12/15/2021 18:00	1565.9
12/15/2021 18:00	12/15/2021 19:00	1583.7
12/15/2021 19:00	12/15/2021 20:00	1611.7
12/15/2021 20:00	12/15/2021 21:00	1637.3
12/15/2021 21:00	12/15/2021 22:00	1606.2
12/15/2021 22:00	12/15/2021 23:00	1530.8
12/15/2021 23:00	12/16/2021 0:00	1499.4
12/16/2021 0:00	12/16/2021 1:00	1447.4
12/16/2021 1:00	12/16/2021 2:00	1382.4
12/16/2021 2:00	12/16/2021 3:00	1309.3
12/16/2021 3:00	12/16/2021 4:00	1228.9
12/16/2021 4:00	12/16/2021 5:00	1193.1
12/16/2021 5:00	12/16/2021 6:00	1225.2
12/16/2021 6:00	12/16/2021 7:00	1364.4
12/16/2021 7:00	12/16/2021 8:00	1474.8
12/16/2021 8:00	12/16/2021 9:00	1514.2
12/16/2021 9:00	12/16/2021 10:00	1467.4
12/16/2021 10:00	12/16/2021 11:00	1420.9
12/16/2021 11:00	12/16/2021 12:00	1398.6
12/16/2021 12:00	12/16/2021 13:00	1371.0
12/16/2021 13:00	12/16/2021 14:00	1309.3
12/16/2021 14:00	12/16/2021 15:00	1341.0
12/16/2021 15:00	12/16/2021 16:00	1373.8
12/16/2021 16:00	12/16/2021 17:00	1441.3
12/16/2021 17:00	12/16/2021 18:00	1457.3
12/16/2021 18:00	12/16/2021 19:00	1396.0
12/16/2021 19:00	12/16/2021 20:00	1346.1
12/16/2021 20:00	12/16/2021 21:00	1251.9
12/16/2021 21:00	12/16/2021 22:00	1127.4
12/16/2021 22:00	12/16/2021 23:00	999.6
12/16/2021 23:00	12/17/2021 0:00	965.0
12/17/2021 0:00	12/17/2021 1:00	896.0
12/17/2021 1:00	12/17/2021 2:00	863.2
12/17/2021 2:00	12/17/2021 3:00	808.5
12/17/2021 3:00	12/17/2021 4:00	833.9
12/17/2021 4:00	12/17/2021 5:00	834.0
12/17/2021 5:00	12/17/2021 6:00	842.9
12/17/2021 6:00	12/17/2021 7:00	900.1
12/17/2021 7:00	12/17/2021 8:00	989.2
12/17/2021 8:00	12/17/2021 9:00	1000.1
12/17/2021 9:00	12/17/2021 10:00	1015.6
12/17/2021 10:00	12/17/2021 11:00	1020.9
12/17/2021 11:00	12/17/2021 12:00	986.6
12/17/2021 12:00	12/17/2021 13:00	983.7
12/17/2021 13:00	12/17/2021 14:00	925.7
12/17/2021 14:00	12/17/2021 15:00	881.5
12/17/2021 15:00	12/17/2021 16:00	887.1
12/17/2021 16:00	12/17/2021 17:00	955.5
12/17/2021 17:00	12/17/2021 18:00	1044.5
12/17/2021 18:00	12/17/2021 19:00	1023.8
12/17/2021 19:00	12/17/2021 20:00	1013.9
12/17/2021 20:00	12/17/2021 21:00	1010.3
12/17/2021 21:00	12/17/2021 22:00	968.4
12/17/2021 22:00	12/17/2021 23:00	889.5
12/17/2021 23:00	12/18/2021 0:00	851.9
12/18/2021 0:00	12/18/2021 1:00	822.6
12/18/2021 1:00	12/18/2021 2:00	799.9

Start Time	End Time	ANL_MW
12/18/2021 2:00	12/18/2021 3:00	777.9
12/18/2021 3:00	12/18/2021 4:00	770.0
12/18/2021 4:00	12/18/2021 5:00	789.0
12/18/2021 5:00	12/18/2021 6:00	833.9
12/18/2021 6:00	12/18/2021 7:00	910.1
12/18/2021 7:00	12/18/2021 8:00	936.5
12/18/2021 8:00	12/18/2021 9:00	1033.3
12/18/2021 9:00	12/18/2021 10:00	1050.3
12/18/2021 10:00	12/18/2021 11:00	1074.8
12/18/2021 11:00	12/18/2021 12:00	1119.3
12/18/2021 12:00	12/18/2021 13:00	1150.6
12/18/2021 13:00	12/18/2021 14:00	1174.6
12/18/2021 14:00	12/18/2021 15:00	1220.0
12/18/2021 15:00	12/18/2021 16:00	1318.5
12/18/2021 16:00	12/18/2021 17:00	1482.6
12/18/2021 17:00	12/18/2021 18:00	1603.8
12/18/2021 18:00	12/18/2021 19:00	1595.8
12/18/2021 19:00	12/18/2021 20:00	1559.0
12/18/2021 20:00	12/18/2021 21:00	1523.2
12/18/2021 21:00	12/18/2021 22:00	1472.1
12/18/2021 22:00	12/18/2021 23:00	1410.7
12/18/2021 23:00	12/19/2021 0:00	1419.2
12/19/2021 0:00	12/19/2021 1:00	1371.4
12/19/2021 1:00	12/19/2021 2:00	1341.0
12/19/2021 2:00	12/19/2021 3:00	1331.7
12/19/2021 3:00	12/19/2021 4:00	1336.9
12/19/2021 4:00	12/19/2021 5:00	1351.5
12/19/2021 5:00	12/19/2021 6:00	1357.0
12/19/2021 6:00	12/19/2021 7:00	1396.0
12/19/2021 7:00	12/19/2021 8:00	1464.3
12/19/2021 8:00	12/19/2021 9:00	1547.5
12/19/2021 9:00	12/19/2021 10:00	1566.2
12/19/2021 10:00	12/19/2021 11:00	1615.1
12/19/2021 11:00	12/19/2021 12:00	1637.3
12/19/2021 12:00	12/19/2021 13:00	1630.9
12/19/2021 13:00	12/19/2021 14:00	1595.7
12/19/2021 14:00	12/19/2021 15:00	1580.2
12/19/2021 15:00	12/19/2021 16:00	1587.5
12/19/2021 16:00	12/19/2021 17:00	1663.5
12/19/2021 17:00	12/19/2021 18:00	1721.7
12/19/2021 18:00	12/19/2021 19:00	1649.8
12/19/2021 19:00	12/19/2021 20:00	1611.7
12/19/2021 20:00	12/19/2021 21:00	1551.2
12/19/2021 21:00	12/19/2021 22:00	1466.5
12/19/2021 22:00	12/19/2021 23:00	1362.7
12/19/2021 23:00	12/20/2021 0:00	1315.7
12/20/2021 0:00	12/20/2021 1:00	1259.3
12/20/2021 1:00	12/20/2021 2:00	1212.5
12/20/2021 2:00	12/20/2021 3:00	1196.5
12/20/2021 3:00	12/20/2021 4:00	1211.2
12/20/2021 4:00	12/20/2021 5:00	1227.4
12/20/2021 5:00	12/20/2021 6:00	1297.1
12/20/2021 6:00	12/20/2021 7:00	1433.9
12/20/2021 7:00	12/20/2021 8:00	1477.8
12/20/2021 8:00	12/20/2021 9:00	1571.2
12/20/2021 9:00	12/20/2021 10:00	1582.8
12/20/2021 10:00	12/20/2021 11:00	1582.3
12/20/2021 11:00	12/20/2021 12:00	1602.1
12/20/2021 12:00	12/20/2021 13:00	1618.6
12/20/2021 13:00	12/20/2021 14:00	1607.2
12/20/2021 14:00	12/20/2021 15:00	1590.9
12/20/2021 15:00	12/20/2021 16:00	1637.8
12/20/2021 16:00	12/20/2021 17:00	1753.8
12/20/2021 17:00	12/20/2021 18:00	1869.1
12/20/2021 18:00	12/20/2021 19:00	1851.9
12/20/2021 19:00	12/20/2021 20:00	1823.2
12/20/2021 20:00	12/20/2021 21:00	1754.8
12/20/2021 21:00	12/20/2021 22:00	1653.4
12/20/2021 22:00	12/20/2021 23:00	1478.4
12/20/2021 23:00	12/21/2021 0:00	1471.2

Start Time	End Time	ANL_MW
12/21/2021 0:00	12/21/2021 1:00	1375.3
12/21/2021 1:00	12/21/2021 2:00	1293.0
12/21/2021 2:00	12/21/2021 3:00	1231.4
12/21/2021 3:00	12/21/2021 4:00	1166.8
12/21/2021 4:00	12/21/2021 5:00	1137.8
12/21/2021 5:00	12/21/2021 6:00	1128.8
12/21/2021 6:00	12/21/2021 7:00	1173.5
12/21/2021 7:00	12/21/2021 8:00	1235.9
12/21/2021 8:00	12/21/2021 9:00	1300.8
12/21/2021 9:00	12/21/2021 10:00	1319.1
12/21/2021 10:00	12/21/2021 11:00	1314.4
12/21/2021 11:00	12/21/2021 12:00	1288.2
12/21/2021 12:00	12/21/2021 13:00	1267.4
12/21/2021 13:00	12/21/2021 14:00	1242.3
12/21/2021 14:00	12/21/2021 15:00	1210.5
12/21/2021 15:00	12/21/2021 16:00	1229.7
12/21/2021 16:00	12/21/2021 17:00	1293.7
12/21/2021 17:00	12/21/2021 18:00	1440.5
12/21/2021 18:00	12/21/2021 19:00	1424.6
12/21/2021 19:00	12/21/2021 20:00	1373.7
12/21/2021 20:00	12/21/2021 21:00	1427.5
12/21/2021 21:00	12/21/2021 22:00	1402.3
12/21/2021 22:00	12/21/2021 23:00	1316.3
12/21/2021 23:00	12/22/2021 0:00	1294.8
12/22/2021 0:00	12/22/2021 1:00	1332.3
12/22/2021 1:00	12/22/2021 2:00	1321.8
12/22/2021 2:00	12/22/2021 3:00	1277.6
12/22/2021 3:00	12/22/2021 4:00	1283.4
12/22/2021 4:00	12/22/2021 5:00	1291.8
12/22/2021 5:00	12/22/2021 6:00	1289.2
12/22/2021 6:00	12/22/2021 7:00	1340.1
12/22/2021 7:00	12/22/2021 8:00	1333.4
12/22/2021 8:00	12/22/2021 9:00	1333.4
12/22/2021 9:00	12/22/2021 10:00	1344.3
12/22/2021 10:00	12/22/2021 11:00	1320.3
12/22/2021 11:00	12/22/2021 12:00	1324.2
12/22/2021 12:00	12/22/2021 13:00	1292.9
12/22/2021 13:00	12/22/2021 14:00	1253.4
12/22/2021 14:00	12/22/2021 15:00	1226.7
12/22/2021 15:00	12/22/2021 16:00	1232.0
12/22/2021 16:00	12/22/2021 17:00	1288.5
12/22/2021 17:00	12/22/2021 18:00	1317.4
12/22/2021 18:00	12/22/2021 19:00	1306.7
12/22/2021 19:00	12/22/2021 20:00	1285.0
12/22/2021 20:00	12/22/2021 21:00	1259.6
12/22/2021 21:00	12/22/2021 22:00	1232.9
12/22/2021 22:00	12/22/2021 23:00	1173.5
12/22/2021 23:00	12/23/2021 0:00	1202.3
12/23/2021 0:00	12/23/2021 1:00	1211.8
12/23/2021 1:00	12/23/2021 2:00	1143.4
12/23/2021 2:00	12/23/2021 3:00	1030.0
12/23/2021 3:00	12/23/2021 4:00	1020.6
12/23/2021 4:00	12/23/2021 5:00	1035.7
12/23/2021 5:00	12/23/2021 6:00	1005.6
12/23/2021 6:00	12/23/2021 7:00	1064.8
12/23/2021 7:00	12/23/2021 8:00	1150.1
12/23/2021 8:00	12/23/2021 9:00	1234.4
12/23/2021 9:00	12/23/2021 10:00	1233.6
12/23/2021 10:00	12/23/2021 11:00	1301.5
12/23/2021 11:00	12/23/2021 12:00	1304.3
12/23/2021 12:00	12/23/2021 13:00	1278.6
12/23/2021 13:00	12/23/2021 14:00	1250.1
12/23/2021 14:00	12/23/2021 15:00	1225.2
12/23/2021 15:00	12/23/2021 16:00	1262.1
12/23/2021 16:00	12/23/2021 17:00	1293.2
12/23/2021 17:00	12/23/2021 18:00	1415.2
12/23/2021 18:00	12/23/2021 19:00	1391.2
12/23/2021 19:00	12/23/2021 20:00	1387.4
12/23/2021 20:00	12/23/2021 21:00	1341.7
12/23/2021 21:00	12/23/2021 22:00	1295.7

Start Time	End Time	ANL_MW
12/23/2021 22:00	12/23/2021 23:00	1224.3
12/23/2021 23:00	12/24/2021 0:00	1276.7
12/24/2021 0:00	12/24/2021 1:00	1262.8
12/24/2021 1:00	12/24/2021 2:00	1171.9
12/24/2021 2:00	12/24/2021 3:00	1147.5
12/24/2021 3:00	12/24/2021 4:00	1138.2
12/24/2021 4:00	12/24/2021 5:00	1151.5
12/24/2021 5:00	12/24/2021 6:00	1181.6
12/24/2021 6:00	12/24/2021 7:00	1242.2
12/24/2021 7:00	12/24/2021 8:00	1302.8
12/24/2021 8:00	12/24/2021 9:00	1377.2
12/24/2021 9:00	12/24/2021 10:00	1374.9
12/24/2021 10:00	12/24/2021 11:00	1341.2
12/24/2021 11:00	12/24/2021 12:00	1322.7
12/24/2021 12:00	12/24/2021 13:00	1354.6
12/24/2021 13:00	12/24/2021 14:00	1318.0
12/24/2021 14:00	12/24/2021 15:00	1293.6
12/24/2021 15:00	12/24/2021 16:00	1323.3
12/24/2021 16:00	12/24/2021 17:00	1391.7
12/24/2021 17:00	12/24/2021 18:00	1440.4
12/24/2021 18:00	12/24/2021 19:00	1400.4
12/24/2021 19:00	12/24/2021 20:00	1375.9
12/24/2021 20:00	12/24/2021 21:00	1357.2
12/24/2021 21:00	12/24/2021 22:00	1317.0
12/24/2021 22:00	12/24/2021 23:00	1268.8
12/24/2021 23:00	12/25/2021 0:00	1305.4
12/25/2021 0:00	12/25/2021 1:00	1283.2
12/25/2021 1:00	12/25/2021 2:00	1223.5
12/25/2021 2:00	12/25/2021 3:00	1172.5
12/25/2021 3:00	12/25/2021 4:00	1145.2
12/25/2021 4:00	12/25/2021 5:00	1165.7
12/25/2021 5:00	12/25/2021 6:00	1151.0
12/25/2021 6:00	12/25/2021 7:00	1116.8
12/25/2021 7:00	12/25/2021 8:00	1195.1
12/25/2021 8:00	12/25/2021 9:00	1249.0
12/25/2021 9:00	12/25/2021 10:00	1258.6
12/25/2021 10:00	12/25/2021 11:00	1297.1
12/25/2021 11:00	12/25/2021 12:00	1346.4
12/25/2021 12:00	12/25/2021 13:00	1356.5
12/25/2021 13:00	12/25/2021 14:00	1386.4
12/25/2021 14:00	12/25/2021 15:00	1389.6
12/25/2021 15:00	12/25/2021 16:00	1439.2
12/25/2021 16:00	12/25/2021 17:00	1532.3
12/25/2021 17:00	12/25/2021 18:00	1521.9
12/25/2021 18:00	12/25/2021 19:00	1468.7
12/25/2021 19:00	12/25/2021 20:00	1438.1
12/25/2021 20:00	12/25/2021 21:00	1476.9
12/25/2021 21:00	12/25/2021 22:00	1469.7
12/25/2021 22:00	12/25/2021 23:00	1422.5
12/25/2021 23:00	12/26/2021 0:00	1409.3
12/26/2021 0:00	12/26/2021 1:00	1376.6
12/26/2021 1:00	12/26/2021 2:00	1343.7
12/26/2021 2:00	12/26/2021 3:00	1325.8
12/26/2021 3:00	12/26/2021 4:00	1330.6
12/26/2021 4:00	12/26/2021 5:00	1341.2
12/26/2021 5:00	12/26/2021 6:00	1377.9
12/26/2021 6:00	12/26/2021 7:00	1376.3
12/26/2021 7:00	12/26/2021 8:00	1420.2
12/26/2021 8:00	12/26/2021 9:00	1488.7
12/26/2021 9:00	12/26/2021 10:00	1542.1
12/26/2021 10:00	12/26/2021 11:00	1540.3
12/26/2021 11:00	12/26/2021 12:00	1503.2
12/26/2021 12:00	12/26/2021 13:00	1457.5
12/26/2021 13:00	12/26/2021 14:00	1386.4
12/26/2021 14:00	12/26/2021 15:00	1319.8
12/26/2021 15:00	12/26/2021 16:00	1320.6
12/26/2021 16:00	12/26/2021 17:00	1372.6
12/26/2021 17:00	12/26/2021 18:00	1415.4
12/26/2021 18:00	12/26/2021 19:00	1355.0
12/26/2021 19:00	12/26/2021 20:00	1294.7

Start Time	End Time	ANL_MW
12/26/2021 20:00	12/26/2021 21:00	1272.5
12/26/2021 21:00	12/26/2021 22:00	1254.9
12/26/2021 22:00	12/26/2021 23:00	1178.0
12/26/2021 23:00	12/27/2021 0:00	1135.9
12/27/2021 0:00	12/27/2021 1:00	1080.8
12/27/2021 1:00	12/27/2021 2:00	1047.3
12/27/2021 2:00	12/27/2021 3:00	1040.3
12/27/2021 3:00	12/27/2021 4:00	1024.7
12/27/2021 4:00	12/27/2021 5:00	1051.3
12/27/2021 5:00	12/27/2021 6:00	1094.4
12/27/2021 6:00	12/27/2021 7:00	1142.6
12/27/2021 7:00	12/27/2021 8:00	1213.5
12/27/2021 8:00	12/27/2021 9:00	1294.0
12/27/2021 9:00	12/27/2021 10:00	1335.3
12/27/2021 10:00	12/27/2021 11:00	1356.4
12/27/2021 11:00	12/27/2021 12:00	1310.8
12/27/2021 12:00	12/27/2021 13:00	1337.0
12/27/2021 13:00	12/27/2021 14:00	1306.0
12/27/2021 14:00	12/27/2021 15:00	1328.2
12/27/2021 15:00	12/27/2021 16:00	1327.2
12/27/2021 16:00	12/27/2021 17:00	1401.2
12/27/2021 17:00	12/27/2021 18:00	1534.1
12/27/2021 18:00	12/27/2021 19:00	1515.1
12/27/2021 19:00	12/27/2021 20:00	1481.9
12/27/2021 20:00	12/27/2021 21:00	1457.3
12/27/2021 21:00	12/27/2021 22:00	1387.3
12/27/2021 22:00	12/27/2021 23:00	1381.4
12/27/2021 23:00	12/28/2021 0:00	1375.6
12/28/2021 0:00	12/28/2021 1:00	1320.8
12/28/2021 1:00	12/28/2021 2:00	1294.6
12/28/2021 2:00	12/28/2021 3:00	1288.6
12/28/2021 3:00	12/28/2021 4:00	1318.0
12/28/2021 4:00	12/28/2021 5:00	1355.6
12/28/2021 5:00	12/28/2021 6:00	1403.6
12/28/2021 6:00	12/28/2021 7:00	1495.7
12/28/2021 7:00	12/28/2021 8:00	1516.8
12/28/2021 8:00	12/28/2021 9:00	1585.9
12/28/2021 9:00	12/28/2021 10:00	1643.7
12/28/2021 10:00	12/28/2021 11:00	1631.3
12/28/2021 11:00	12/28/2021 12:00	1596.9
12/28/2021 12:00	12/28/2021 13:00	1580.4
12/28/2021 13:00	12/28/2021 14:00	1556.2
12/28/2021 14:00	12/28/2021 15:00	1516.0
12/28/2021 15:00	12/28/2021 16:00	1535.8
12/28/2021 16:00	12/28/2021 17:00	1634.8
12/28/2021 17:00	12/28/2021 18:00	1657.1
12/28/2021 18:00	12/28/2021 19:00	1594.6
12/28/2021 19:00	12/28/2021 20:00	1552.8
12/28/2021 20:00	12/28/2021 21:00	1522.3
12/28/2021 21:00	12/28/2021 22:00	1449.5
12/28/2021 22:00	12/28/2021 23:00	1358.0
12/28/2021 23:00	12/29/2021 0:00	1329.3
12/29/2021 0:00	12/29/2021 1:00	1291.2
12/29/2021 1:00	12/29/2021 2:00	1267.3
12/29/2021 2:00	12/29/2021 3:00	1272.8
12/29/2021 3:00	12/29/2021 4:00	1300.0
12/29/2021 4:00	12/29/2021 5:00	1324.8
12/29/2021 5:00	12/29/2021 6:00	1365.6
12/29/2021 6:00	12/29/2021 7:00	1437.2
12/29/2021 7:00	12/29/2021 8:00	1488.0
12/29/2021 8:00	12/29/2021 9:00	1555.7
12/29/2021 9:00	12/29/2021 10:00	1611.8
12/29/2021 10:00	12/29/2021 11:00	1610.4
12/29/2021 11:00	12/29/2021 12:00	1606.4
12/29/2021 12:00	12/29/2021 13:00	1612.1
12/29/2021 13:00	12/29/2021 14:00	1591.4
12/29/2021 14:00	12/29/2021 15:00	1575.0
12/29/2021 15:00	12/29/2021 16:00	1534.7
12/29/2021 16:00	12/29/2021 17:00	1595.7
12/29/2021 17:00	12/29/2021 18:00	1669.2

Start Time	End Time	ANL_MW
12/29/2021 18:00	12/29/2021 19:00	1622.7
12/29/2021 19:00	12/29/2021 20:00	1597.7
12/29/2021 20:00	12/29/2021 21:00	1565.2
12/29/2021 21:00	12/29/2021 22:00	1502.8
12/29/2021 22:00	12/29/2021 23:00	1421.0
12/29/2021 23:00	12/30/2021 0:00	1431.2
12/30/2021 0:00	12/30/2021 1:00	1437.0
12/30/2021 1:00	12/30/2021 2:00	1400.1
12/30/2021 2:00	12/30/2021 3:00	1364.3
12/30/2021 3:00	12/30/2021 4:00	1357.1
12/30/2021 4:00	12/30/2021 5:00	1367.0
12/30/2021 5:00	12/30/2021 6:00	1402.1
12/30/2021 6:00	12/30/2021 7:00	1480.3
12/30/2021 7:00	12/30/2021 8:00	1511.9
12/30/2021 8:00	12/30/2021 9:00	1545.2
12/30/2021 9:00	12/30/2021 10:00	1593.4
12/30/2021 10:00	12/30/2021 11:00	1603.7
12/30/2021 11:00	12/30/2021 12:00	1601.5
12/30/2021 12:00	12/30/2021 13:00	1613.4
12/30/2021 13:00	12/30/2021 14:00	1582.2
12/30/2021 14:00	12/30/2021 15:00	1545.1
12/30/2021 15:00	12/30/2021 16:00	1556.1
12/30/2021 16:00	12/30/2021 17:00	1624.0
12/30/2021 17:00	12/30/2021 18:00	1696.1
12/30/2021 18:00	12/30/2021 19:00	1653.9
12/30/2021 19:00	12/30/2021 20:00	1612.3
12/30/2021 20:00	12/30/2021 21:00	1554.8
12/30/2021 21:00	12/30/2021 22:00	1483.9
12/30/2021 22:00	12/30/2021 23:00	1391.8
12/30/2021 23:00	12/31/2021 0:00	1367.5
12/31/2021 0:00	12/31/2021 1:00	1304.6
12/31/2021 1:00	12/31/2021 2:00	1264.8
12/31/2021 2:00	12/31/2021 3:00	1233.3
12/31/2021 3:00	12/31/2021 4:00	1223.4
12/31/2021 4:00	12/31/2021 5:00	1288.6
12/31/2021 5:00	12/31/2021 6:00	1321.2
12/31/2021 6:00	12/31/2021 7:00	1390.6
12/31/2021 7:00	12/31/2021 8:00	1456.2
12/31/2021 8:00	12/31/2021 9:00	1526.7
12/31/2021 9:00	12/31/2021 10:00	1531.7
12/31/2021 10:00	12/31/2021 11:00	1555.6
12/31/2021 11:00	12/31/2021 12:00	1563.2
12/31/2021 12:00	12/31/2021 13:00	1574.3
12/31/2021 13:00	12/31/2021 14:00	1543.0
12/31/2021 14:00	12/31/2021 15:00	1514.8
12/31/2021 15:00	12/31/2021 16:00	1520.6
12/31/2021 16:00	12/31/2021 17:00	1576.9
12/31/2021 17:00	12/31/2021 18:00	1626.8
12/31/2021 18:00	12/31/2021 19:00	1574.2
12/31/2021 19:00	12/31/2021 20:00	1509.3
12/31/2021 20:00	12/31/2021 21:00	1434.2
12/31/2021 21:00	12/31/2021 22:00	1367.8
12/31/2021 22:00	12/31/2021 23:00	1307.4
12/31/2021 23:00	1/1/2022 0:00	1295.9
1/1/2022 0:00	1/1/2022 1:00	1267.5
1/1/2022 1:00	1/1/2022 2:00	1271.2
1/1/2022 2:00	1/1/2022 3:00	1212.4
1/1/2022 3:00	1/1/2022 4:00	1168.1
1/1/2022 4:00	1/1/2022 5:00	1125.4
1/1/2022 5:00	1/1/2022 6:00	1112.4
1/1/2022 6:00	1/1/2022 7:00	1129.5
1/1/2022 7:00	1/1/2022 8:00	1178.3
1/1/2022 8:00	1/1/2022 9:00	1160.5
1/1/2022 9:00	1/1/2022 10:00	1170.9
1/1/2022 10:00	1/1/2022 11:00	1202.9
1/1/2022 11:00	1/1/2022 12:00	1232.0
1/1/2022 12:00	1/1/2022 13:00	1252.9
1/1/2022 13:00	1/1/2022 14:00	1249.3
1/1/2022 14:00	1/1/2022 15:00	1201.5
1/1/2022 15:00	1/1/2022 16:00	1176.0

Start Time	End Time	ANL_MW
1/1/2022 16:00	1/1/2022 17:00	1265.8
1/1/2022 17:00	1/1/2022 18:00	1274.5
1/1/2022 18:00	1/1/2022 19:00	1188.2
1/1/2022 19:00	1/1/2022 20:00	1115.6
1/1/2022 20:00	1/1/2022 21:00	1062.1
1/1/2022 21:00	1/1/2022 22:00	1035.3
1/1/2022 22:00	1/1/2022 23:00	1000.3
1/1/2022 23:00	1/2/2022 0:00	980.7
1/2/2022 0:00	1/2/2022 1:00	985.0
1/2/2022 1:00	1/2/2022 2:00	952.8
1/2/2022 2:00	1/2/2022 3:00	929.8
1/2/2022 3:00	1/2/2022 4:00	953.9
1/2/2022 4:00	1/2/2022 5:00	964.6
1/2/2022 5:00	1/2/2022 6:00	949.6
1/2/2022 6:00	1/2/2022 7:00	1000.1
1/2/2022 7:00	1/2/2022 8:00	1096.5
1/2/2022 8:00	1/2/2022 9:00	1174.6
1/2/2022 9:00	1/2/2022 10:00	1243.4
1/2/2022 10:00	1/2/2022 11:00	1307.1
1/2/2022 11:00	1/2/2022 12:00	1342.9
1/2/2022 12:00	1/2/2022 13:00	1348.2
1/2/2022 13:00	1/2/2022 14:00	1298.0
1/2/2022 14:00	1/2/2022 15:00	1201.2
1/2/2022 15:00	1/2/2022 16:00	1175.8
1/2/2022 16:00	1/2/2022 17:00	1279.0
1/2/2022 17:00	1/2/2022 18:00	1327.4
1/2/2022 18:00	1/2/2022 19:00	1293.6
1/2/2022 19:00	1/2/2022 20:00	1291.4
1/2/2022 20:00	1/2/2022 21:00	1288.5
1/2/2022 21:00	1/2/2022 22:00	1293.0
1/2/2022 22:00	1/2/2022 23:00	1246.7
1/2/2022 23:00	1/3/2022 0:00	1173.1
1/3/2022 0:00	1/3/2022 1:00	1088.5
1/3/2022 1:00	1/3/2022 2:00	1112.6
1/3/2022 2:00	1/3/2022 3:00	1124.8
1/3/2022 3:00	1/3/2022 4:00	1124.2
1/3/2022 4:00	1/3/2022 5:00	1127.6
1/3/2022 5:00	1/3/2022 6:00	1209.3
1/3/2022 6:00	1/3/2022 7:00	1251.7
1/3/2022 7:00	1/3/2022 8:00	1353.9
1/3/2022 8:00	1/3/2022 9:00	1478.5
1/3/2022 9:00	1/3/2022 10:00	1534.8
1/3/2022 10:00	1/3/2022 11:00	1579.2
1/3/2022 11:00	1/3/2022 12:00	1580.1
1/3/2022 12:00	1/3/2022 13:00	1588.1
1/3/2022 13:00	1/3/2022 14:00	1606.7
1/3/2022 14:00	1/3/2022 15:00	1616.6
1/3/2022 15:00	1/3/2022 16:00	1649.1
1/3/2022 16:00	1/3/2022 17:00	1727.6
1/3/2022 17:00	1/3/2022 18:00	1794.4
1/3/2022 18:00	1/3/2022 19:00	1744.6
1/3/2022 19:00	1/3/2022 20:00	1695.1
1/3/2022 20:00	1/3/2022 21:00	1623.9
1/3/2022 21:00	1/3/2022 22:00	1533.0
1/3/2022 22:00	1/3/2022 23:00	1458.1
1/3/2022 23:00	1/4/2022 0:00	1436.8
1/4/2022 0:00	1/4/2022 1:00	1481.1
1/4/2022 1:00	1/4/2022 2:00	1428.9
1/4/2022 2:00	1/4/2022 3:00	1402.2
1/4/2022 3:00	1/4/2022 4:00	1363.7
1/4/2022 4:00	1/4/2022 5:00	1343.7
1/4/2022 5:00	1/4/2022 6:00	1409.6
1/4/2022 6:00	1/4/2022 7:00	1527.2
1/4/2022 7:00	1/4/2022 8:00	1587.7
1/4/2022 8:00	1/4/2022 9:00	1632.2
1/4/2022 9:00	1/4/2022 10:00	1614.0
1/4/2022 10:00	1/4/2022 11:00	1625.1
1/4/2022 11:00	1/4/2022 12:00	1644.5
1/4/2022 12:00	1/4/2022 13:00	1662.7
1/4/2022 13:00	1/4/2022 14:00	1658.4

Start Time	End Time	ANL_MW
1/4/2022 14:00	1/4/2022 15:00	1639.5
1/4/2022 15:00	1/4/2022 16:00	1636.9
1/4/2022 16:00	1/4/2022 17:00	1774.1
1/4/2022 17:00	1/4/2022 18:00	1851.6
1/4/2022 18:00	1/4/2022 19:00	1816.6
1/4/2022 19:00	1/4/2022 20:00	1759.1
1/4/2022 20:00	1/4/2022 21:00	1683.9
1/4/2022 21:00	1/4/2022 22:00	1535.2
1/4/2022 22:00	1/4/2022 23:00	1443.0
1/4/2022 23:00	1/5/2022 0:00	1391.4
1/5/2022 0:00	1/5/2022 1:00	1413.4
1/5/2022 1:00	1/5/2022 2:00	1400.4
1/5/2022 2:00	1/5/2022 3:00	1373.6
1/5/2022 3:00	1/5/2022 4:00	1352.0
1/5/2022 4:00	1/5/2022 5:00	1336.5
1/5/2022 5:00	1/5/2022 6:00	1376.8
1/5/2022 6:00	1/5/2022 7:00	1414.8
1/5/2022 7:00	1/5/2022 8:00	1418.2
1/5/2022 8:00	1/5/2022 9:00	1410.9
1/5/2022 9:00	1/5/2022 10:00	1404.8
1/5/2022 10:00	1/5/2022 11:00	1363.3
1/5/2022 11:00	1/5/2022 12:00	1290.9
1/5/2022 12:00	1/5/2022 13:00	1255.8
1/5/2022 13:00	1/5/2022 14:00	1235.2
1/5/2022 14:00	1/5/2022 15:00	1193.4
1/5/2022 15:00	1/5/2022 16:00	1173.6
1/5/2022 16:00	1/5/2022 17:00	1183.1
1/5/2022 17:00	1/5/2022 18:00	1213.6
1/5/2022 18:00	1/5/2022 19:00	1146.1
1/5/2022 19:00	1/5/2022 20:00	1063.2
1/5/2022 20:00	1/5/2022 21:00	1019.5
1/5/2022 21:00	1/5/2022 22:00	910.2
1/5/2022 22:00	1/5/2022 23:00	851.2
1/5/2022 23:00	1/6/2022 0:00	912.6
1/6/2022 0:00	1/6/2022 1:00	871.1
1/6/2022 1:00	1/6/2022 2:00	855.3
1/6/2022 2:00	1/6/2022 3:00	856.6
1/6/2022 3:00	1/6/2022 4:00	860.9
1/6/2022 4:00	1/6/2022 5:00	881.9
1/6/2022 5:00	1/6/2022 6:00	893.8
1/6/2022 6:00	1/6/2022 7:00	914.1
1/6/2022 7:00	1/6/2022 8:00	971.8
1/6/2022 8:00	1/6/2022 9:00	1045.6
1/6/2022 9:00	1/6/2022 10:00	1129.2
1/6/2022 10:00	1/6/2022 11:00	1168.5
1/6/2022 11:00	1/6/2022 12:00	1188.1
1/6/2022 12:00	1/6/2022 13:00	1169.2
1/6/2022 13:00	1/6/2022 14:00	1148.7
1/6/2022 14:00	1/6/2022 15:00	1167.4
1/6/2022 15:00	1/6/2022 16:00	1266.6
1/6/2022 16:00	1/6/2022 17:00	1340.1
1/6/2022 17:00	1/6/2022 18:00	1466.9
1/6/2022 18:00	1/6/2022 19:00	1452.6
1/6/2022 19:00	1/6/2022 20:00	1452.2
1/6/2022 20:00	1/6/2022 21:00	1446.5
1/6/2022 21:00	1/6/2022 22:00	1408.4
1/6/2022 22:00	1/6/2022 23:00	1340.5
1/6/2022 23:00	1/7/2022 0:00	1341.2
1/7/2022 0:00	1/7/2022 1:00	1336.0
1/7/2022 1:00	1/7/2022 2:00	1307.6
1/7/2022 2:00	1/7/2022 3:00	1278.6
1/7/2022 3:00	1/7/2022 4:00	1252.7
1/7/2022 4:00	1/7/2022 5:00	1253.5
1/7/2022 5:00	1/7/2022 6:00	1280.7
1/7/2022 6:00	1/7/2022 7:00	1344.6
1/7/2022 7:00	1/7/2022 8:00	1393.4
1/7/2022 8:00	1/7/2022 9:00	1417.8
1/7/2022 9:00	1/7/2022 10:00	1413.2
1/7/2022 10:00	1/7/2022 11:00	1425.0
1/7/2022 11:00	1/7/2022 12:00	1411.0

Start Time	End Time	ANL_MW
1/7/2022 12:00	1/7/2022 13:00	1356.2
1/7/2022 13:00	1/7/2022 14:00	1296.9
1/7/2022 14:00	1/7/2022 15:00	1195.8
1/7/2022 15:00	1/7/2022 16:00	1092.0
1/7/2022 16:00	1/7/2022 17:00	1078.0
1/7/2022 17:00	1/7/2022 18:00	1126.5
1/7/2022 18:00	1/7/2022 19:00	1144.0
1/7/2022 19:00	1/7/2022 20:00	1201.2
1/7/2022 20:00	1/7/2022 21:00	1235.3
1/7/2022 21:00	1/7/2022 22:00	1195.9
1/7/2022 22:00	1/7/2022 23:00	1145.2
1/7/2022 23:00	1/8/2022 0:00	1124.7
1/8/2022 0:00	1/8/2022 1:00	1061.8
1/8/2022 1:00	1/8/2022 2:00	1040.1
1/8/2022 2:00	1/8/2022 3:00	1018.5
1/8/2022 3:00	1/8/2022 4:00	997.0
1/8/2022 4:00	1/8/2022 5:00	1013.9
1/8/2022 5:00	1/8/2022 6:00	1047.5
1/8/2022 6:00	1/8/2022 7:00	1096.3
1/8/2022 7:00	1/8/2022 8:00	1149.8
1/8/2022 8:00	1/8/2022 9:00	1213.5
1/8/2022 9:00	1/8/2022 10:00	1285.8
1/8/2022 10:00	1/8/2022 11:00	1313.4
1/8/2022 11:00	1/8/2022 12:00	1332.9
1/8/2022 12:00	1/8/2022 13:00	1283.6
1/8/2022 13:00	1/8/2022 14:00	1283.4
1/8/2022 14:00	1/8/2022 15:00	1264.1
1/8/2022 15:00	1/8/2022 16:00	1316.6
1/8/2022 16:00	1/8/2022 17:00	1457.5
1/8/2022 17:00	1/8/2022 18:00	1581.3
1/8/2022 18:00	1/8/2022 19:00	1570.3
1/8/2022 19:00	1/8/2022 20:00	1558.1
1/8/2022 20:00	1/8/2022 21:00	1515.1
1/8/2022 21:00	1/8/2022 22:00	1518.5
1/8/2022 22:00	1/8/2022 23:00	1506.7
1/8/2022 23:00	1/9/2022 0:00	1492.1
1/9/2022 0:00	1/9/2022 1:00	1480.2
1/9/2022 1:00	1/9/2022 2:00	1469.6
1/9/2022 2:00	1/9/2022 3:00	1494.0
1/9/2022 3:00	1/9/2022 4:00	1472.2
1/9/2022 4:00	1/9/2022 5:00	1433.5
1/9/2022 5:00	1/9/2022 6:00	1384.5
1/9/2022 6:00	1/9/2022 7:00	1366.3
1/9/2022 7:00	1/9/2022 8:00	1358.5
1/9/2022 8:00	1/9/2022 9:00	1377.7
1/9/2022 9:00	1/9/2022 10:00	1397.0
1/9/2022 10:00	1/9/2022 11:00	1392.2
1/9/2022 11:00	1/9/2022 12:00	1376.5
1/9/2022 12:00	1/9/2022 13:00	1377.4
1/9/2022 13:00	1/9/2022 14:00	1348.4
1/9/2022 14:00	1/9/2022 15:00	1331.6
1/9/2022 15:00	1/9/2022 16:00	1335.6
1/9/2022 16:00	1/9/2022 17:00	1390.8
1/9/2022 17:00	1/9/2022 18:00	1424.7
1/9/2022 18:00	1/9/2022 19:00	1331.6
1/9/2022 19:00	1/9/2022 20:00	1252.0
1/9/2022 20:00	1/9/2022 21:00	1175.8
1/9/2022 21:00	1/9/2022 22:00	1070.7
1/9/2022 22:00	1/9/2022 23:00	1017.4
1/9/2022 23:00	1/10/2022 0:00	992.2
1/10/2022 0:00	1/10/2022 1:00	999.7
1/10/2022 1:00	1/10/2022 2:00	1015.4
1/10/2022 2:00	1/10/2022 3:00	1023.4
1/10/2022 3:00	1/10/2022 4:00	1023.8
1/10/2022 4:00	1/10/2022 5:00	1019.9
1/10/2022 5:00	1/10/2022 6:00	1087.5
1/10/2022 6:00	1/10/2022 7:00	1151.0
1/10/2022 7:00	1/10/2022 8:00	1174.1
1/10/2022 8:00	1/10/2022 9:00	1241.9
1/10/2022 9:00	1/10/2022 10:00	1230.7

Start Time	End Time	ANL_MW
1/10/2022 10:00	1/10/2022 11:00	1244.9
1/10/2022 11:00	1/10/2022 12:00	1271.5
1/10/2022 12:00	1/10/2022 13:00	1297.4
1/10/2022 13:00	1/10/2022 14:00	1303.6
1/10/2022 14:00	1/10/2022 15:00	1358.6
1/10/2022 15:00	1/10/2022 16:00	1442.1
1/10/2022 16:00	1/10/2022 17:00	1571.4
1/10/2022 17:00	1/10/2022 18:00	1675.5
1/10/2022 18:00	1/10/2022 19:00	1637.4
1/10/2022 19:00	1/10/2022 20:00	1558.1
1/10/2022 20:00	1/10/2022 21:00	1456.5
1/10/2022 21:00	1/10/2022 22:00	1421.4
1/10/2022 22:00	1/10/2022 23:00	1420.5
1/10/2022 23:00	1/11/2022 0:00	1446.5
1/11/2022 0:00	1/11/2022 1:00	1427.2
1/11/2022 1:00	1/11/2022 2:00	1444.5
1/11/2022 2:00	1/11/2022 3:00	1483.2
1/11/2022 3:00	1/11/2022 4:00	1514.3
1/11/2022 4:00	1/11/2022 5:00	1518.6
1/11/2022 5:00	1/11/2022 6:00	1510.5
1/11/2022 6:00	1/11/2022 7:00	1639.4
1/11/2022 7:00	1/11/2022 8:00	1745.2
1/11/2022 8:00	1/11/2022 9:00	1820.8
1/11/2022 9:00	1/11/2022 10:00	1898.3
1/11/2022 10:00	1/11/2022 11:00	1888.1
1/11/2022 11:00	1/11/2022 12:00	1855.7
1/11/2022 12:00	1/11/2022 13:00	1817.1
1/11/2022 13:00	1/11/2022 14:00	1758.0
1/11/2022 14:00	1/11/2022 15:00	1737.3
1/11/2022 15:00	1/11/2022 16:00	1765.2
1/11/2022 16:00	1/11/2022 17:00	1870.3
1/11/2022 17:00	1/11/2022 18:00	2007.0
1/11/2022 18:00	1/11/2022 19:00	1971.9
1/11/2022 19:00	1/11/2022 20:00	1888.8
1/11/2022 20:00	1/11/2022 21:00	1860.4
1/11/2022 21:00	1/11/2022 22:00	1790.9
1/11/2022 22:00	1/11/2022 23:00	1720.9
1/11/2022 23:00	1/12/2022 0:00	1731.4
1/12/2022 0:00	1/12/2022 1:00	1744.9
1/12/2022 1:00	1/12/2022 2:00	1760.6
1/12/2022 2:00	1/12/2022 3:00	1763.6
1/12/2022 3:00	1/12/2022 4:00	1786.6
1/12/2022 4:00	1/12/2022 5:00	1805.7
1/12/2022 5:00	1/12/2022 6:00	1847.2
1/12/2022 6:00	1/12/2022 7:00	1909.4
1/12/2022 7:00	1/12/2022 8:00	1912.9
1/12/2022 8:00	1/12/2022 9:00	1930.2
1/12/2022 9:00	1/12/2022 10:00	1866.3
1/12/2022 10:00	1/12/2022 11:00	1803.0
1/12/2022 11:00	1/12/2022 12:00	1732.0
1/12/2022 12:00	1/12/2022 13:00	1685.7
1/12/2022 13:00	1/12/2022 14:00	1645.1
1/12/2022 14:00	1/12/2022 15:00	1597.2
1/12/2022 15:00	1/12/2022 16:00	1551.3
1/12/2022 16:00	1/12/2022 17:00	1585.1
1/12/2022 17:00	1/12/2022 18:00	1603.1
1/12/2022 18:00	1/12/2022 19:00	1508.6
1/12/2022 19:00	1/12/2022 20:00	1458.7
1/12/2022 20:00	1/12/2022 21:00	1420.0
1/12/2022 21:00	1/12/2022 22:00	1310.0
1/12/2022 22:00	1/12/2022 23:00	1217.3
1/12/2022 23:00	1/13/2022 0:00	1265.1
1/13/2022 0:00	1/13/2022 1:00	1311.0
1/13/2022 1:00	1/13/2022 2:00	1343.6
1/13/2022 2:00	1/13/2022 3:00	1351.8
1/13/2022 3:00	1/13/2022 4:00	1388.3
1/13/2022 4:00	1/13/2022 5:00	1392.9
1/13/2022 5:00	1/13/2022 6:00	1407.5
1/13/2022 6:00	1/13/2022 7:00	1484.6
1/13/2022 7:00	1/13/2022 8:00	1568.9

Start Time	End Time	ANL_MW
1/13/2022 8:00	1/13/2022 9:00	1636.3
1/13/2022 9:00	1/13/2022 10:00	1646.5
1/13/2022 10:00	1/13/2022 11:00	1639.3
1/13/2022 11:00	1/13/2022 12:00	1660.2
1/13/2022 12:00	1/13/2022 13:00	1656.9
1/13/2022 13:00	1/13/2022 14:00	1643.3
1/13/2022 14:00	1/13/2022 15:00	1619.6
1/13/2022 15:00	1/13/2022 16:00	1629.5
1/13/2022 16:00	1/13/2022 17:00	1683.4
1/13/2022 17:00	1/13/2022 18:00	1756.2
1/13/2022 18:00	1/13/2022 19:00	1731.1
1/13/2022 19:00	1/13/2022 20:00	1690.0
1/13/2022 20:00	1/13/2022 21:00	1593.2
1/13/2022 21:00	1/13/2022 22:00	1534.7
1/13/2022 22:00	1/13/2022 23:00	1455.4
1/13/2022 23:00	1/14/2022 0:00	1434.3
1/14/2022 0:00	1/14/2022 1:00	1415.8
1/14/2022 1:00	1/14/2022 2:00	1366.2
1/14/2022 2:00	1/14/2022 3:00	1315.2
1/14/2022 3:00	1/14/2022 4:00	1300.5
1/14/2022 4:00	1/14/2022 5:00	1317.2
1/14/2022 5:00	1/14/2022 6:00	1352.0
1/14/2022 6:00	1/14/2022 7:00	1444.5
1/14/2022 7:00	1/14/2022 8:00	1451.0
1/14/2022 8:00	1/14/2022 9:00	1510.6
1/14/2022 9:00	1/14/2022 10:00	1488.7
1/14/2022 10:00	1/14/2022 11:00	1494.4
1/14/2022 11:00	1/14/2022 12:00	1516.4
1/14/2022 12:00	1/14/2022 13:00	1570.7
1/14/2022 13:00	1/14/2022 14:00	1562.9
1/14/2022 14:00	1/14/2022 15:00	1515.7
1/14/2022 15:00	1/14/2022 16:00	1452.1
1/14/2022 16:00	1/14/2022 17:00	1418.0
1/14/2022 17:00	1/14/2022 18:00	1439.9
1/14/2022 18:00	1/14/2022 19:00	1425.7
1/14/2022 19:00	1/14/2022 20:00	1407.5
1/14/2022 20:00	1/14/2022 21:00	1387.5
1/14/2022 21:00	1/14/2022 22:00	1394.2
1/14/2022 22:00	1/14/2022 23:00	1342.2
1/14/2022 23:00	1/15/2022 0:00	1340.5
1/15/2022 0:00	1/15/2022 1:00	1320.9
1/15/2022 1:00	1/15/2022 2:00	1297.8
1/15/2022 2:00	1/15/2022 3:00	1284.0
1/15/2022 3:00	1/15/2022 4:00	1289.6
1/15/2022 4:00	1/15/2022 5:00	1293.9
1/15/2022 5:00	1/15/2022 6:00	1328.9
1/15/2022 6:00	1/15/2022 7:00	1372.8
1/15/2022 7:00	1/15/2022 8:00	1404.3
1/15/2022 8:00	1/15/2022 9:00	1471.8
1/15/2022 9:00	1/15/2022 10:00	1553.6
1/15/2022 10:00	1/15/2022 11:00	1572.6
1/15/2022 11:00	1/15/2022 12:00	1613.5
1/15/2022 12:00	1/15/2022 13:00	1634.7
1/15/2022 13:00	1/15/2022 14:00	1611.7
1/15/2022 14:00	1/15/2022 15:00	1578.9
1/15/2022 15:00	1/15/2022 16:00	1601.4
1/15/2022 16:00	1/15/2022 17:00	1665.9
1/15/2022 17:00	1/15/2022 18:00	1774.8
1/15/2022 18:00	1/15/2022 19:00	1745.6
1/15/2022 19:00	1/15/2022 20:00	1694.4
1/15/2022 20:00	1/15/2022 21:00	1639.5
1/15/2022 21:00	1/15/2022 22:00	1600.4
1/15/2022 22:00	1/15/2022 23:00	1542.8
1/15/2022 23:00	1/16/2022 0:00	1482.3
1/16/2022 0:00	1/16/2022 1:00	1432.6
1/16/2022 1:00	1/16/2022 2:00	1396.0
1/16/2022 2:00	1/16/2022 3:00	1385.3
1/16/2022 3:00	1/16/2022 4:00	1387.9
1/16/2022 4:00	1/16/2022 5:00	1410.6
1/16/2022 5:00	1/16/2022 6:00	1416.6

Start Time	End Time	ANL_MW
1/16/2022 6:00	1/16/2022 7:00	1463.4
1/16/2022 7:00	1/16/2022 8:00	1536.6
1/16/2022 8:00	1/16/2022 9:00	1620.3
1/16/2022 9:00	1/16/2022 10:00	1658.2
1/16/2022 10:00	1/16/2022 11:00	1668.1
1/16/2022 11:00	1/16/2022 12:00	1659.4
1/16/2022 12:00	1/16/2022 13:00	1664.1
1/16/2022 13:00	1/16/2022 14:00	1619.7
1/16/2022 14:00	1/16/2022 15:00	1591.6
1/16/2022 15:00	1/16/2022 16:00	1607.8
1/16/2022 16:00	1/16/2022 17:00	1723.9
1/16/2022 17:00	1/16/2022 18:00	1855.3
1/16/2022 18:00	1/16/2022 19:00	1839.0
1/16/2022 19:00	1/16/2022 20:00	1827.4
1/16/2022 20:00	1/16/2022 21:00	1849.5
1/16/2022 21:00	1/16/2022 22:00	1823.6
1/16/2022 22:00	1/16/2022 23:00	1684.4
1/16/2022 23:00	1/17/2022 0:00	1565.0
1/17/2022 0:00	1/17/2022 1:00	1521.4
1/17/2022 1:00	1/17/2022 2:00	1543.6
1/17/2022 2:00	1/17/2022 3:00	1579.7
1/17/2022 3:00	1/17/2022 4:00	1607.3
1/17/2022 4:00	1/17/2022 5:00	1622.8
1/17/2022 5:00	1/17/2022 6:00	1662.0
1/17/2022 6:00	1/17/2022 7:00	1722.8
1/17/2022 7:00	1/17/2022 8:00	1700.4
1/17/2022 8:00	1/17/2022 9:00	1648.9
1/17/2022 9:00	1/17/2022 10:00	1616.0
1/17/2022 10:00	1/17/2022 11:00	1571.1
1/17/2022 11:00	1/17/2022 12:00	1539.1
1/17/2022 12:00	1/17/2022 13:00	1545.0
1/17/2022 13:00	1/17/2022 14:00	1513.9
1/17/2022 14:00	1/17/2022 15:00	1500.3
1/17/2022 15:00	1/17/2022 16:00	1523.9
1/17/2022 16:00	1/17/2022 17:00	1576.1
1/17/2022 17:00	1/17/2022 18:00	1595.1
1/17/2022 18:00	1/17/2022 19:00	1530.7
1/17/2022 19:00	1/17/2022 20:00	1428.4
1/17/2022 20:00	1/17/2022 21:00	1302.1
1/17/2022 21:00	1/17/2022 22:00	1180.4
1/17/2022 22:00	1/17/2022 23:00	1031.0
1/17/2022 23:00	1/18/2022 0:00	1038.2
1/18/2022 0:00	1/18/2022 1:00	1050.4
1/18/2022 1:00	1/18/2022 2:00	1052.7
1/18/2022 2:00	1/18/2022 3:00	1008.1
1/18/2022 3:00	1/18/2022 4:00	1050.4
1/18/2022 4:00	1/18/2022 5:00	1052.6
1/18/2022 5:00	1/18/2022 6:00	1086.8
1/18/2022 6:00	1/18/2022 7:00	1142.0
1/18/2022 7:00	1/18/2022 8:00	1221.1
1/18/2022 8:00	1/18/2022 9:00	1250.1
1/18/2022 9:00	1/18/2022 10:00	1278.7
1/18/2022 10:00	1/18/2022 11:00	1291.4
1/18/2022 11:00	1/18/2022 12:00	1327.7
1/18/2022 12:00	1/18/2022 13:00	1371.5
1/18/2022 13:00	1/18/2022 14:00	1364.7
1/18/2022 14:00	1/18/2022 15:00	1351.1
1/18/2022 15:00	1/18/2022 16:00	1388.5
1/18/2022 16:00	1/18/2022 17:00	1426.1
1/18/2022 17:00	1/18/2022 18:00	1444.8
1/18/2022 18:00	1/18/2022 19:00	1369.5
1/18/2022 19:00	1/18/2022 20:00	1316.1
1/18/2022 20:00	1/18/2022 21:00	1280.8
1/18/2022 21:00	1/18/2022 22:00	1217.6
1/18/2022 22:00	1/18/2022 23:00	1190.4
1/18/2022 23:00	1/19/2022 0:00	1216.9
1/19/2022 0:00	1/19/2022 1:00	1216.5
1/19/2022 1:00	1/19/2022 2:00	1226.4
1/19/2022 2:00	1/19/2022 3:00	1224.9
1/19/2022 3:00	1/19/2022 4:00	1242.3

Start Time	End Time	ANL_MW
1/19/2022 4:00	1/19/2022 5:00	1273.6
1/19/2022 5:00	1/19/2022 6:00	1312.9
1/19/2022 6:00	1/19/2022 7:00	1395.3
1/19/2022 7:00	1/19/2022 8:00	1538.0
1/19/2022 8:00	1/19/2022 9:00	1619.5
1/19/2022 9:00	1/19/2022 10:00	1640.4
1/19/2022 10:00	1/19/2022 11:00	1665.5
1/19/2022 11:00	1/19/2022 12:00	1682.0
1/19/2022 12:00	1/19/2022 13:00	1669.0
1/19/2022 13:00	1/19/2022 14:00	1644.8
1/19/2022 14:00	1/19/2022 15:00	1637.1
1/19/2022 15:00	1/19/2022 16:00	1629.3
1/19/2022 16:00	1/19/2022 17:00	1691.5
1/19/2022 17:00	1/19/2022 18:00	1753.5
1/19/2022 18:00	1/19/2022 19:00	1616.4
1/19/2022 19:00	1/19/2022 20:00	1445.5
1/19/2022 20:00	1/19/2022 21:00	1294.7
1/19/2022 21:00	1/19/2022 22:00	1193.3
1/19/2022 22:00	1/19/2022 23:00	1095.7
1/19/2022 23:00	1/20/2022 0:00	1127.6
1/20/2022 0:00	1/20/2022 1:00	1129.5
1/20/2022 1:00	1/20/2022 2:00	1078.7
1/20/2022 2:00	1/20/2022 3:00	1033.8
1/20/2022 3:00	1/20/2022 4:00	1034.1
1/20/2022 4:00	1/20/2022 5:00	1058.7
1/20/2022 5:00	1/20/2022 6:00	1118.3
1/20/2022 6:00	1/20/2022 7:00	1266.8
1/20/2022 7:00	1/20/2022 8:00	1319.7
1/20/2022 8:00	1/20/2022 9:00	1338.6
1/20/2022 9:00	1/20/2022 10:00	1385.4
1/20/2022 10:00	1/20/2022 11:00	1425.9
1/20/2022 11:00	1/20/2022 12:00	1472.6
1/20/2022 12:00	1/20/2022 13:00	1465.0
1/20/2022 13:00	1/20/2022 14:00	1462.2
1/20/2022 14:00	1/20/2022 15:00	1442.1
1/20/2022 15:00	1/20/2022 16:00	1486.0
1/20/2022 16:00	1/20/2022 17:00	1550.3
1/20/2022 17:00	1/20/2022 18:00	1631.6
1/20/2022 18:00	1/20/2022 19:00	1615.4
1/20/2022 19:00	1/20/2022 20:00	1544.9
1/20/2022 20:00	1/20/2022 21:00	1482.8
1/20/2022 21:00	1/20/2022 22:00	1394.6
1/20/2022 22:00	1/20/2022 23:00	1327.5
1/20/2022 23:00	1/21/2022 0:00	1306.3
1/21/2022 0:00	1/21/2022 1:00	1276.9
1/21/2022 1:00	1/21/2022 2:00	1234.0
1/21/2022 2:00	1/21/2022 3:00	1291.7
1/21/2022 3:00	1/21/2022 4:00	1345.0
1/21/2022 4:00	1/21/2022 5:00	1391.4
1/21/2022 5:00	1/21/2022 6:00	1456.4
1/21/2022 6:00	1/21/2022 7:00	1519.8
1/21/2022 7:00	1/21/2022 8:00	1609.9
1/21/2022 8:00	1/21/2022 9:00	1699.4
1/21/2022 9:00	1/21/2022 10:00	1740.7
1/21/2022 10:00	1/21/2022 11:00	1748.5
1/21/2022 11:00	1/21/2022 12:00	1720.9
1/21/2022 12:00	1/21/2022 13:00	1721.9
1/21/2022 13:00	1/21/2022 14:00	1673.7
1/21/2022 14:00	1/21/2022 15:00	1627.5
1/21/2022 15:00	1/21/2022 16:00	1667.7
1/21/2022 16:00	1/21/2022 17:00	1746.5
1/21/2022 17:00	1/21/2022 18:00	1854.9
1/21/2022 18:00	1/21/2022 19:00	1850.7
1/21/2022 19:00	1/21/2022 20:00	1820.7
1/21/2022 20:00	1/21/2022 21:00	1798.1
1/21/2022 21:00	1/21/2022 22:00	1769.8
1/21/2022 22:00	1/21/2022 23:00	1717.9
1/21/2022 23:00	1/22/2022 0:00	1731.0
1/22/2022 0:00	1/22/2022 1:00	1731.0
1/22/2022 1:00	1/22/2022 2:00	1711.8

Start Time	End Time	ANL_MW
1/22/2022 2:00	1/22/2022 3:00	1696.3
1/22/2022 3:00	1/22/2022 4:00	1681.4
1/22/2022 4:00	1/22/2022 5:00	1682.6
1/22/2022 5:00	1/22/2022 6:00	1705.2
1/22/2022 6:00	1/22/2022 7:00	1749.5
1/22/2022 7:00	1/22/2022 8:00	1799.9
1/22/2022 8:00	1/22/2022 9:00	1895.8
1/22/2022 9:00	1/22/2022 10:00	1931.5
1/22/2022 10:00	1/22/2022 11:00	1932.0
1/22/2022 11:00	1/22/2022 12:00	1938.5
1/22/2022 12:00	1/22/2022 13:00	1932.3
1/22/2022 13:00	1/22/2022 14:00	1898.9
1/22/2022 14:00	1/22/2022 15:00	1876.9
1/22/2022 15:00	1/22/2022 16:00	1861.4
1/22/2022 16:00	1/22/2022 17:00	1900.8
1/22/2022 17:00	1/22/2022 18:00	1945.6
1/22/2022 18:00	1/22/2022 19:00	1881.0
1/22/2022 19:00	1/22/2022 20:00	1819.9
1/22/2022 20:00	1/22/2022 21:00	1759.5
1/22/2022 21:00	1/22/2022 22:00	1679.0
1/22/2022 22:00	1/22/2022 23:00	1610.3
1/22/2022 23:00	1/23/2022 0:00	1569.4
1/23/2022 0:00	1/23/2022 1:00	1533.7
1/23/2022 1:00	1/23/2022 2:00	1519.4
1/23/2022 2:00	1/23/2022 3:00	1510.4
1/23/2022 3:00	1/23/2022 4:00	1506.3
1/23/2022 4:00	1/23/2022 5:00	1504.6
1/23/2022 5:00	1/23/2022 6:00	1509.9
1/23/2022 6:00	1/23/2022 7:00	1539.9
1/23/2022 7:00	1/23/2022 8:00	1601.1
1/23/2022 8:00	1/23/2022 9:00	1636.9
1/23/2022 9:00	1/23/2022 10:00	1653.9
1/23/2022 10:00	1/23/2022 11:00	1637.6
1/23/2022 11:00	1/23/2022 12:00	1572.5
1/23/2022 12:00	1/23/2022 13:00	1500.2
1/23/2022 13:00	1/23/2022 14:00	1436.1
1/23/2022 14:00	1/23/2022 15:00	1418.7
1/23/2022 15:00	1/23/2022 16:00	1451.8
1/23/2022 16:00	1/23/2022 17:00	1502.2
1/23/2022 17:00	1/23/2022 18:00	1575.6
1/23/2022 18:00	1/23/2022 19:00	1553.1
1/23/2022 19:00	1/23/2022 20:00	1495.4
1/23/2022 20:00	1/23/2022 21:00	1433.9
1/23/2022 21:00	1/23/2022 22:00	1386.5
1/23/2022 22:00	1/23/2022 23:00	1352.1
1/23/2022 23:00	1/24/2022 0:00	1379.5
1/24/2022 0:00	1/24/2022 1:00	1395.0
1/24/2022 1:00	1/24/2022 2:00	1393.3
1/24/2022 2:00	1/24/2022 3:00	1379.9
1/24/2022 3:00	1/24/2022 4:00	1377.8
1/24/2022 4:00	1/24/2022 5:00	1382.9
1/24/2022 5:00	1/24/2022 6:00	1404.6
1/24/2022 6:00	1/24/2022 7:00	1513.5
1/24/2022 7:00	1/24/2022 8:00	1628.8
1/24/2022 8:00	1/24/2022 9:00	1679.8
1/24/2022 9:00	1/24/2022 10:00	1709.9
1/24/2022 10:00	1/24/2022 11:00	1724.9
1/24/2022 11:00	1/24/2022 12:00	1716.2
1/24/2022 12:00	1/24/2022 13:00	1696.9
1/24/2022 13:00	1/24/2022 14:00	1635.1
1/24/2022 14:00	1/24/2022 15:00	1629.8
1/24/2022 15:00	1/24/2022 16:00	1691.8
1/24/2022 16:00	1/24/2022 17:00	1766.7
1/24/2022 17:00	1/24/2022 18:00	1872.3
1/24/2022 18:00	1/24/2022 19:00	1861.8
1/24/2022 19:00	1/24/2022 20:00	1831.0
1/24/2022 20:00	1/24/2022 21:00	1791.8
1/24/2022 21:00	1/24/2022 22:00	1750.8
1/24/2022 22:00	1/24/2022 23:00	1681.1
1/24/2022 23:00	1/25/2022 0:00	1672.5

Start Time	End Time	ANL_MW
1/25/2022 0:00	1/25/2022 1:00	1661.6
1/25/2022 1:00	1/25/2022 2:00	1678.0
1/25/2022 2:00	1/25/2022 3:00	1659.3
1/25/2022 3:00	1/25/2022 4:00	1656.0
1/25/2022 4:00	1/25/2022 5:00	1649.1
1/25/2022 5:00	1/25/2022 6:00	1629.6
1/25/2022 6:00	1/25/2022 7:00	1679.9
1/25/2022 7:00	1/25/2022 8:00	1671.0
1/25/2022 8:00	1/25/2022 9:00	1634.6
1/25/2022 9:00	1/25/2022 10:00	1581.6
1/25/2022 10:00	1/25/2022 11:00	1541.9
1/25/2022 11:00	1/25/2022 12:00	1485.5
1/25/2022 12:00	1/25/2022 13:00	1468.9
1/25/2022 13:00	1/25/2022 14:00	1450.9
1/25/2022 14:00	1/25/2022 15:00	1451.5
1/25/2022 15:00	1/25/2022 16:00	1450.5
1/25/2022 16:00	1/25/2022 17:00	1452.0
1/25/2022 17:00	1/25/2022 18:00	1504.9
1/25/2022 18:00	1/25/2022 19:00	1506.5
1/25/2022 19:00	1/25/2022 20:00	1467.3
1/25/2022 20:00	1/25/2022 21:00	1448.0
1/25/2022 21:00	1/25/2022 22:00	1411.3
1/25/2022 22:00	1/25/2022 23:00	1334.3
1/25/2022 23:00	1/26/2022 0:00	1353.8
1/26/2022 0:00	1/26/2022 1:00	1389.9
1/26/2022 1:00	1/26/2022 2:00	1369.3
1/26/2022 2:00	1/26/2022 3:00	1372.7
1/26/2022 3:00	1/26/2022 4:00	1375.6
1/26/2022 4:00	1/26/2022 5:00	1429.7
1/26/2022 5:00	1/26/2022 6:00	1524.7
1/26/2022 6:00	1/26/2022 7:00	1666.6
1/26/2022 7:00	1/26/2022 8:00	1719.8
1/26/2022 8:00	1/26/2022 9:00	1791.3
1/26/2022 9:00	1/26/2022 10:00	1760.5
1/26/2022 10:00	1/26/2022 11:00	1732.5
1/26/2022 11:00	1/26/2022 12:00	1681.2
1/26/2022 12:00	1/26/2022 13:00	1658.7
1/26/2022 13:00	1/26/2022 14:00	1652.1
1/26/2022 14:00	1/26/2022 15:00	1629.8
1/26/2022 15:00	1/26/2022 16:00	1621.6
1/26/2022 16:00	1/26/2022 17:00	1643.8
1/26/2022 17:00	1/26/2022 18:00	1723.8
1/26/2022 18:00	1/26/2022 19:00	1711.3
1/26/2022 19:00	1/26/2022 20:00	1697.4
1/26/2022 20:00	1/26/2022 21:00	1650.4
1/26/2022 21:00	1/26/2022 22:00	1584.7
1/26/2022 22:00	1/26/2022 23:00	1491.2
1/26/2022 23:00	1/27/2022 0:00	1490.6
1/27/2022 0:00	1/27/2022 1:00	1482.2
1/27/2022 1:00	1/27/2022 2:00	1501.3
1/27/2022 2:00	1/27/2022 3:00	1506.3
1/27/2022 3:00	1/27/2022 4:00	1536.9
1/27/2022 4:00	1/27/2022 5:00	1587.6
1/27/2022 5:00	1/27/2022 6:00	1673.1
1/27/2022 6:00	1/27/2022 7:00	1847.2
1/27/2022 7:00	1/27/2022 8:00	1957.2
1/27/2022 8:00	1/27/2022 9:00	1992.8
1/27/2022 9:00	1/27/2022 10:00	1946.0
1/27/2022 10:00	1/27/2022 11:00	1884.2
1/27/2022 11:00	1/27/2022 12:00	1835.1
1/27/2022 12:00	1/27/2022 13:00	1819.7
1/27/2022 13:00	1/27/2022 14:00	1759.5
1/27/2022 14:00	1/27/2022 15:00	1709.4
1/27/2022 15:00	1/27/2022 16:00	1720.2
1/27/2022 16:00	1/27/2022 17:00	1788.7
1/27/2022 17:00	1/27/2022 18:00	1882.7
1/27/2022 18:00	1/27/2022 19:00	1850.3
1/27/2022 19:00	1/27/2022 20:00	1766.4
1/27/2022 20:00	1/27/2022 21:00	1664.1
1/27/2022 21:00	1/27/2022 22:00	1569.9

Start Time	End Time	ANL_MW
1/27/2022 22:00	1/27/2022 23:00	1453.2
1/27/2022 23:00	1/28/2022 0:00	1396.8
1/28/2022 0:00	1/28/2022 1:00	1417.5
1/28/2022 1:00	1/28/2022 2:00	1408.1
1/28/2022 2:00	1/28/2022 3:00	1421.8
1/28/2022 3:00	1/28/2022 4:00	1419.9
1/28/2022 4:00	1/28/2022 5:00	1406.4
1/28/2022 5:00	1/28/2022 6:00	1434.5
1/28/2022 6:00	1/28/2022 7:00	1516.4
1/28/2022 7:00	1/28/2022 8:00	1610.1
1/28/2022 8:00	1/28/2022 9:00	1644.8
1/28/2022 9:00	1/28/2022 10:00	1658.2
1/28/2022 10:00	1/28/2022 11:00	1636.9
1/28/2022 11:00	1/28/2022 12:00	1591.0
1/28/2022 12:00	1/28/2022 13:00	1572.5
1/28/2022 13:00	1/28/2022 14:00	1498.6
1/28/2022 14:00	1/28/2022 15:00	1493.1
1/28/2022 15:00	1/28/2022 16:00	1540.7
1/28/2022 16:00	1/28/2022 17:00	1605.5
1/28/2022 17:00	1/28/2022 18:00	1663.0
1/28/2022 18:00	1/28/2022 19:00	1661.5
1/28/2022 19:00	1/28/2022 20:00	1636.3
1/28/2022 20:00	1/28/2022 21:00	1600.3
1/28/2022 21:00	1/28/2022 22:00	1542.6
1/28/2022 22:00	1/28/2022 23:00	1468.7
1/28/2022 23:00	1/29/2022 0:00	1456.3
1/29/2022 0:00	1/29/2022 1:00	1395.5
1/29/2022 1:00	1/29/2022 2:00	1340.2
1/29/2022 2:00	1/29/2022 3:00	1295.6
1/29/2022 3:00	1/29/2022 4:00	1241.1
1/29/2022 4:00	1/29/2022 5:00	1234.6
1/29/2022 5:00	1/29/2022 6:00	1289.8
1/29/2022 6:00	1/29/2022 7:00	1315.1
1/29/2022 7:00	1/29/2022 8:00	1380.7
1/29/2022 8:00	1/29/2022 9:00	1439.4
1/29/2022 9:00	1/29/2022 10:00	1492.3
1/29/2022 10:00	1/29/2022 11:00	1537.7
1/29/2022 11:00	1/29/2022 12:00	1619.5
1/29/2022 12:00	1/29/2022 13:00	1641.1
1/29/2022 13:00	1/29/2022 14:00	1631.4
1/29/2022 14:00	1/29/2022 15:00	1566.1
1/29/2022 15:00	1/29/2022 16:00	1485.9
1/29/2022 16:00	1/29/2022 17:00	1488.2
1/29/2022 17:00	1/29/2022 18:00	1604.8
1/29/2022 18:00	1/29/2022 19:00	1635.9
1/29/2022 19:00	1/29/2022 20:00	1574.1
1/29/2022 20:00	1/29/2022 21:00	1484.5
1/29/2022 21:00	1/29/2022 22:00	1451.1
1/29/2022 22:00	1/29/2022 23:00	1428.6
1/29/2022 23:00	1/30/2022 0:00	1308.5
1/30/2022 0:00	1/30/2022 1:00	1219.2
1/30/2022 1:00	1/30/2022 2:00	1194.2
1/30/2022 2:00	1/30/2022 3:00	1182.9
1/30/2022 3:00	1/30/2022 4:00	1196.6
1/30/2022 4:00	1/30/2022 5:00	1220.2
1/30/2022 5:00	1/30/2022 6:00	1216.7
1/30/2022 6:00	1/30/2022 7:00	1269.5
1/30/2022 7:00	1/30/2022 8:00	1242.7
1/30/2022 8:00	1/30/2022 9:00	1343.8
1/30/2022 9:00	1/30/2022 10:00	1385.5
1/30/2022 10:00	1/30/2022 11:00	1436.0
1/30/2022 11:00	1/30/2022 12:00	1456.3
1/30/2022 12:00	1/30/2022 13:00	1420.3
1/30/2022 13:00	1/30/2022 14:00	1422.0
1/30/2022 14:00	1/30/2022 15:00	1430.2
1/30/2022 15:00	1/30/2022 16:00	1475.7
1/30/2022 16:00	1/30/2022 17:00	1570.1
1/30/2022 17:00	1/30/2022 18:00	1664.2
1/30/2022 18:00	1/30/2022 19:00	1649.8
1/30/2022 19:00	1/30/2022 20:00	1607.2

Start Time	End Time	ANL_MW
1/30/2022 20:00	1/30/2022 21:00	1582.4
1/30/2022 21:00	1/30/2022 22:00	1544.2
1/30/2022 22:00	1/30/2022 23:00	1468.2
1/30/2022 23:00	1/31/2022 0:00	1436.4
1/31/2022 0:00	1/31/2022 1:00	1406.3
1/31/2022 1:00	1/31/2022 2:00	1441.6
1/31/2022 2:00	1/31/2022 3:00	1457.7
1/31/2022 3:00	1/31/2022 4:00	1474.4
1/31/2022 4:00	1/31/2022 5:00	1500.6
1/31/2022 5:00	1/31/2022 6:00	1515.9
1/31/2022 6:00	1/31/2022 7:00	1628.3
1/31/2022 7:00	1/31/2022 8:00	1707.9
1/31/2022 8:00	1/31/2022 9:00	1755.4
1/31/2022 9:00	1/31/2022 10:00	1706.0
1/31/2022 10:00	1/31/2022 11:00	1652.3
1/31/2022 11:00	1/31/2022 12:00	1579.4
1/31/2022 12:00	1/31/2022 13:00	1562.7
1/31/2022 13:00	1/31/2022 14:00	1507.6
1/31/2022 14:00	1/31/2022 15:00	1450.9
1/31/2022 15:00	1/31/2022 16:00	1457.8
1/31/2022 16:00	1/31/2022 17:00	1555.0
1/31/2022 17:00	1/31/2022 18:00	1717.8
1/31/2022 18:00	1/31/2022 19:00	1751.1
1/31/2022 19:00	1/31/2022 20:00	1695.3
1/31/2022 20:00	1/31/2022 21:00	1646.8
1/31/2022 21:00	1/31/2022 22:00	1622.3
1/31/2022 22:00	1/31/2022 23:00	1569.6
1/31/2022 23:00	2/1/2022 0:00	1614.8
2/1/2022 0:00	2/1/2022 1:00	1644.2
2/1/2022 1:00	2/1/2022 2:00	1638.2
2/1/2022 2:00	2/1/2022 3:00	1629.1
2/1/2022 3:00	2/1/2022 4:00	1655.1
2/1/2022 4:00	2/1/2022 5:00	1643.4
2/1/2022 5:00	2/1/2022 6:00	1676.7
2/1/2022 6:00	2/1/2022 7:00	1767.0
2/1/2022 7:00	2/1/2022 8:00	1848.5
2/1/2022 8:00	2/1/2022 9:00	1877.3
2/1/2022 9:00	2/1/2022 10:00	1863.7
2/1/2022 10:00	2/1/2022 11:00	1811.0
2/1/2022 11:00	2/1/2022 12:00	1761.1
2/1/2022 12:00	2/1/2022 13:00	1730.4
2/1/2022 13:00	2/1/2022 14:00	1673.4
2/1/2022 14:00	2/1/2022 15:00	1625.6
2/1/2022 15:00	2/1/2022 16:00	1631.6
2/1/2022 16:00	2/1/2022 17:00	1721.0
2/1/2022 17:00	2/1/2022 18:00	1850.8
2/1/2022 18:00	2/1/2022 19:00	1884.5
2/1/2022 19:00	2/1/2022 20:00	1854.1
2/1/2022 20:00	2/1/2022 21:00	1816.5
2/1/2022 21:00	2/1/2022 22:00	1765.0
2/1/2022 22:00	2/1/2022 23:00	1709.7
2/1/2022 23:00	2/2/2022 0:00	1719.1
2/2/2022 0:00	2/2/2022 1:00	1697.7
2/2/2022 1:00	2/2/2022 2:00	1703.0
2/2/2022 2:00	2/2/2022 3:00	1695.0
2/2/2022 3:00	2/2/2022 4:00	1718.5
2/2/2022 4:00	2/2/2022 5:00	1684.6
2/2/2022 5:00	2/2/2022 6:00	1642.1
2/2/2022 6:00	2/2/2022 7:00	1763.9
2/2/2022 7:00	2/2/2022 8:00	1838.9
2/2/2022 8:00	2/2/2022 9:00	1849.4
2/2/2022 9:00	2/2/2022 10:00	1783.5
2/2/2022 10:00	2/2/2022 11:00	1727.2
2/2/2022 11:00	2/2/2022 12:00	1673.3
2/2/2022 12:00	2/2/2022 13:00	1581.1
2/2/2022 13:00	2/2/2022 14:00	1503.0
2/2/2022 14:00	2/2/2022 15:00	1437.0
2/2/2022 15:00	2/2/2022 16:00	1457.7
2/2/2022 16:00	2/2/2022 17:00	1536.8
2/2/2022 17:00	2/2/2022 18:00	1574.6

Start Time	End Time	ANL_MW
2/2/2022 18:00	2/2/2022 19:00	1507.5
2/2/2022 19:00	2/2/2022 20:00	1427.1
2/2/2022 20:00	2/2/2022 21:00	1374.8
2/2/2022 21:00	2/2/2022 22:00	1280.5
2/2/2022 22:00	2/2/2022 23:00	1176.1
2/2/2022 23:00	2/3/2022 0:00	1153.3
2/3/2022 0:00	2/3/2022 1:00	1154.8
2/3/2022 1:00	2/3/2022 2:00	1095.3
2/3/2022 2:00	2/3/2022 3:00	1043.5
2/3/2022 3:00	2/3/2022 4:00	981.3
2/3/2022 4:00	2/3/2022 5:00	967.1
2/3/2022 5:00	2/3/2022 6:00	994.7
2/3/2022 6:00	2/3/2022 7:00	1023.8
2/3/2022 7:00	2/3/2022 8:00	1118.6
2/3/2022 8:00	2/3/2022 9:00	1140.4
2/3/2022 9:00	2/3/2022 10:00	1118.6
2/3/2022 10:00	2/3/2022 11:00	1149.3
2/3/2022 11:00	2/3/2022 12:00	1175.6
2/3/2022 12:00	2/3/2022 13:00	1203.8
2/3/2022 13:00	2/3/2022 14:00	1206.8
2/3/2022 14:00	2/3/2022 15:00	1229.2
2/3/2022 15:00	2/3/2022 16:00	1289.1
2/3/2022 16:00	2/3/2022 17:00	1361.1
2/3/2022 17:00	2/3/2022 18:00	1455.5
2/3/2022 18:00	2/3/2022 19:00	1517.6
2/3/2022 19:00	2/3/2022 20:00	1521.6
2/3/2022 20:00	2/3/2022 21:00	1510.4
2/3/2022 21:00	2/3/2022 22:00	1468.6
2/3/2022 22:00	2/3/2022 23:00	1416.1
2/3/2022 23:00	2/4/2022 0:00	1387.0
2/4/2022 0:00	2/4/2022 1:00	1336.0
2/4/2022 1:00	2/4/2022 2:00	1204.3
2/4/2022 2:00	2/4/2022 3:00	1171.2
2/4/2022 3:00	2/4/2022 4:00	1158.1
2/4/2022 4:00	2/4/2022 5:00	1179.0
2/4/2022 5:00	2/4/2022 6:00	1250.9
2/4/2022 6:00	2/4/2022 7:00	1366.9
2/4/2022 7:00	2/4/2022 8:00	1463.0
2/4/2022 8:00	2/4/2022 9:00	1520.4
2/4/2022 9:00	2/4/2022 10:00	1557.3
2/4/2022 10:00	2/4/2022 11:00	1585.9
2/4/2022 11:00	2/4/2022 12:00	1611.4
2/4/2022 12:00	2/4/2022 13:00	1639.8
2/4/2022 13:00	2/4/2022 14:00	1617.1
2/4/2022 14:00	2/4/2022 15:00	1591.9
2/4/2022 15:00	2/4/2022 16:00	1581.2
2/4/2022 16:00	2/4/2022 17:00	1581.3
2/4/2022 17:00	2/4/2022 18:00	1610.6
2/4/2022 18:00	2/4/2022 19:00	1570.7
2/4/2022 19:00	2/4/2022 20:00	1522.9
2/4/2022 20:00	2/4/2022 21:00	1465.0
2/4/2022 21:00	2/4/2022 22:00	1419.2
2/4/2022 22:00	2/4/2022 23:00	1434.6
2/4/2022 23:00	2/5/2022 0:00	1473.3
2/5/2022 0:00	2/5/2022 1:00	1473.4
2/5/2022 1:00	2/5/2022 2:00	1438.9
2/5/2022 2:00	2/5/2022 3:00	1403.2
2/5/2022 3:00	2/5/2022 4:00	1376.3
2/5/2022 4:00	2/5/2022 5:00	1393.9
2/5/2022 5:00	2/5/2022 6:00	1424.1
2/5/2022 6:00	2/5/2022 7:00	1442.3
2/5/2022 7:00	2/5/2022 8:00	1446.9
2/5/2022 8:00	2/5/2022 9:00	1518.6
2/5/2022 9:00	2/5/2022 10:00	1602.9
2/5/2022 10:00	2/5/2022 11:00	1611.0
2/5/2022 11:00	2/5/2022 12:00	1643.4
2/5/2022 12:00	2/5/2022 13:00	1637.0
2/5/2022 13:00	2/5/2022 14:00	1603.5
2/5/2022 14:00	2/5/2022 15:00	1600.2
2/5/2022 15:00	2/5/2022 16:00	1614.5

Start Time	End Time	ANL_MW
2/5/2022 16:00	2/5/2022 17:00	1670.5
2/5/2022 17:00	2/5/2022 18:00	1777.5
2/5/2022 18:00	2/5/2022 19:00	1802.1
2/5/2022 19:00	2/5/2022 20:00	1769.3
2/5/2022 20:00	2/5/2022 21:00	1712.8
2/5/2022 21:00	2/5/2022 22:00	1662.5
2/5/2022 22:00	2/5/2022 23:00	1619.0
2/5/2022 23:00	2/6/2022 0:00	1597.8
2/6/2022 0:00	2/6/2022 1:00	1560.6
2/6/2022 1:00	2/6/2022 2:00	1553.3
2/6/2022 2:00	2/6/2022 3:00	1577.5
2/6/2022 3:00	2/6/2022 4:00	1574.9
2/6/2022 4:00	2/6/2022 5:00	1587.8
2/6/2022 5:00	2/6/2022 6:00	1627.1
2/6/2022 6:00	2/6/2022 7:00	1691.6
2/6/2022 7:00	2/6/2022 8:00	1769.2
2/6/2022 8:00	2/6/2022 9:00	1829.8
2/6/2022 9:00	2/6/2022 10:00	1845.4
2/6/2022 10:00	2/6/2022 11:00	1847.8
2/6/2022 11:00	2/6/2022 12:00	1841.3
2/6/2022 12:00	2/6/2022 13:00	1853.6
2/6/2022 13:00	2/6/2022 14:00	1813.7
2/6/2022 14:00	2/6/2022 15:00	1764.7
2/6/2022 15:00	2/6/2022 16:00	1766.8
2/6/2022 16:00	2/6/2022 17:00	1846.0
2/6/2022 17:00	2/6/2022 18:00	1963.6
2/6/2022 18:00	2/6/2022 19:00	2027.3
2/6/2022 19:00	2/6/2022 20:00	2032.4
2/6/2022 20:00	2/6/2022 21:00	1993.4
2/6/2022 21:00	2/6/2022 22:00	1925.2
2/6/2022 22:00	2/6/2022 23:00	1830.5
2/6/2022 23:00	2/7/2022 0:00	1738.6
2/7/2022 0:00	2/7/2022 1:00	1676.0
2/7/2022 1:00	2/7/2022 2:00	1634.3
2/7/2022 2:00	2/7/2022 3:00	1628.8
2/7/2022 3:00	2/7/2022 4:00	1636.3
2/7/2022 4:00	2/7/2022 5:00	1655.1
2/7/2022 5:00	2/7/2022 6:00	1718.7
2/7/2022 6:00	2/7/2022 7:00	1855.6
2/7/2022 7:00	2/7/2022 8:00	1900.4
2/7/2022 8:00	2/7/2022 9:00	1925.2
2/7/2022 9:00	2/7/2022 10:00	1914.1
2/7/2022 10:00	2/7/2022 11:00	1869.2
2/7/2022 11:00	2/7/2022 12:00	1813.6
2/7/2022 12:00	2/7/2022 13:00	1792.8
2/7/2022 13:00	2/7/2022 14:00	1763.0
2/7/2022 14:00	2/7/2022 15:00	1715.8
2/7/2022 15:00	2/7/2022 16:00	1728.7
2/7/2022 16:00	2/7/2022 17:00	1763.2
2/7/2022 17:00	2/7/2022 18:00	1845.7
2/7/2022 18:00	2/7/2022 19:00	1825.0
2/7/2022 19:00	2/7/2022 20:00	1768.4
2/7/2022 20:00	2/7/2022 21:00	1705.7
2/7/2022 21:00	2/7/2022 22:00	1629.5
2/7/2022 22:00	2/7/2022 23:00	1534.9
2/7/2022 23:00	2/8/2022 0:00	1507.3
2/8/2022 0:00	2/8/2022 1:00	1488.6
2/8/2022 1:00	2/8/2022 2:00	1475.6
2/8/2022 2:00	2/8/2022 3:00	1435.2
2/8/2022 3:00	2/8/2022 4:00	1392.0
2/8/2022 4:00	2/8/2022 5:00	1380.4
2/8/2022 5:00	2/8/2022 6:00	1418.8
2/8/2022 6:00	2/8/2022 7:00	1444.9
2/8/2022 7:00	2/8/2022 8:00	1500.7
2/8/2022 8:00	2/8/2022 9:00	1489.4
2/8/2022 9:00	2/8/2022 10:00	1461.7
2/8/2022 10:00	2/8/2022 11:00	1437.2
2/8/2022 11:00	2/8/2022 12:00	1422.9
2/8/2022 12:00	2/8/2022 13:00	1411.3
2/8/2022 13:00	2/8/2022 14:00	1374.3

Start Time	End Time	ANL_MW
2/8/2022 14:00	2/8/2022 15:00	1349.5
2/8/2022 15:00	2/8/2022 16:00	1354.3
2/8/2022 16:00	2/8/2022 17:00	1386.6
2/8/2022 17:00	2/8/2022 18:00	1471.7
2/8/2022 18:00	2/8/2022 19:00	1485.9
2/8/2022 19:00	2/8/2022 20:00	1479.6
2/8/2022 20:00	2/8/2022 21:00	1471.8
2/8/2022 21:00	2/8/2022 22:00	1463.1
2/8/2022 22:00	2/8/2022 23:00	1343.4
2/8/2022 23:00	2/9/2022 0:00	1283.2
2/9/2022 0:00	2/9/2022 1:00	1219.3
2/9/2022 1:00	2/9/2022 2:00	1183.9
2/9/2022 2:00	2/9/2022 3:00	1160.1
2/9/2022 3:00	2/9/2022 4:00	1138.8
2/9/2022 4:00	2/9/2022 5:00	1165.8
2/9/2022 5:00	2/9/2022 6:00	1227.2
2/9/2022 6:00	2/9/2022 7:00	1300.1
2/9/2022 7:00	2/9/2022 8:00	1378.9
2/9/2022 8:00	2/9/2022 9:00	1412.7
2/9/2022 9:00	2/9/2022 10:00	1394.8
2/9/2022 10:00	2/9/2022 11:00	1367.8
2/9/2022 11:00	2/9/2022 12:00	1347.7
2/9/2022 12:00	2/9/2022 13:00	1355.3
2/9/2022 13:00	2/9/2022 14:00	1351.4
2/9/2022 14:00	2/9/2022 15:00	1355.8
2/9/2022 15:00	2/9/2022 16:00	1391.9
2/9/2022 16:00	2/9/2022 17:00	1514.0
2/9/2022 17:00	2/9/2022 18:00	1620.7
2/9/2022 18:00	2/9/2022 19:00	1622.6
2/9/2022 19:00	2/9/2022 20:00	1600.0
2/9/2022 20:00	2/9/2022 21:00	1575.5
2/9/2022 21:00	2/9/2022 22:00	1516.3
2/9/2022 22:00	2/9/2022 23:00	1489.0
2/9/2022 23:00	2/10/2022 0:00	1472.7
2/10/2022 0:00	2/10/2022 1:00	1444.7
2/10/2022 1:00	2/10/2022 2:00	1412.0
2/10/2022 2:00	2/10/2022 3:00	1369.9
2/10/2022 3:00	2/10/2022 4:00	1372.2
2/10/2022 4:00	2/10/2022 5:00	1369.0
2/10/2022 5:00	2/10/2022 6:00	1408.9
2/10/2022 6:00	2/10/2022 7:00	1523.5
2/10/2022 7:00	2/10/2022 8:00	1574.7
2/10/2022 8:00	2/10/2022 9:00	1577.1
2/10/2022 9:00	2/10/2022 10:00	1549.6
2/10/2022 10:00	2/10/2022 11:00	1504.1
2/10/2022 11:00	2/10/2022 12:00	1517.0
2/10/2022 12:00	2/10/2022 13:00	1510.9
2/10/2022 13:00	2/10/2022 14:00	1452.4
2/10/2022 14:00	2/10/2022 15:00	1403.5
2/10/2022 15:00	2/10/2022 16:00	1425.9
2/10/2022 16:00	2/10/2022 17:00	1473.6
2/10/2022 17:00	2/10/2022 18:00	1561.9
2/10/2022 18:00	2/10/2022 19:00	1550.6
2/10/2022 19:00	2/10/2022 20:00	1442.4
2/10/2022 20:00	2/10/2022 21:00	1356.9
2/10/2022 21:00	2/10/2022 22:00	1298.0
2/10/2022 22:00	2/10/2022 23:00	1212.9
2/10/2022 23:00	2/11/2022 0:00	1198.3
2/11/2022 0:00	2/11/2022 1:00	1156.4
2/11/2022 1:00	2/11/2022 2:00	1119.9
2/11/2022 2:00	2/11/2022 3:00	1075.9
2/11/2022 3:00	2/11/2022 4:00	1097.5
2/11/2022 4:00	2/11/2022 5:00	1119.6
2/11/2022 5:00	2/11/2022 6:00	1147.8
2/11/2022 6:00	2/11/2022 7:00	1192.2
2/11/2022 7:00	2/11/2022 8:00	1247.9
2/11/2022 8:00	2/11/2022 9:00	1276.3
2/11/2022 9:00	2/11/2022 10:00	1302.1
2/11/2022 10:00	2/11/2022 11:00	1218.8
2/11/2022 11:00	2/11/2022 12:00	1187.1

Start Time	End Time	ANL_MW
2/11/2022 12:00	2/11/2022 13:00	1173.8
2/11/2022 13:00	2/11/2022 14:00	1200.0
2/11/2022 14:00	2/11/2022 15:00	1208.7
2/11/2022 15:00	2/11/2022 16:00	1228.0
2/11/2022 16:00	2/11/2022 17:00	1307.1
2/11/2022 17:00	2/11/2022 18:00	1426.5
2/11/2022 18:00	2/11/2022 19:00	1473.7
2/11/2022 19:00	2/11/2022 20:00	1402.3
2/11/2022 20:00	2/11/2022 21:00	1302.5
2/11/2022 21:00	2/11/2022 22:00	1174.9
2/11/2022 22:00	2/11/2022 23:00	1127.1
2/11/2022 23:00	2/12/2022 0:00	1098.3
2/12/2022 0:00	2/12/2022 1:00	1067.8
2/12/2022 1:00	2/12/2022 2:00	1044.6
2/12/2022 2:00	2/12/2022 3:00	1010.2
2/12/2022 3:00	2/12/2022 4:00	961.4
2/12/2022 4:00	2/12/2022 5:00	963.6
2/12/2022 5:00	2/12/2022 6:00	968.0
2/12/2022 6:00	2/12/2022 7:00	1000.7
2/12/2022 7:00	2/12/2022 8:00	952.6
2/12/2022 8:00	2/12/2022 9:00	983.4
2/12/2022 9:00	2/12/2022 10:00	985.1
2/12/2022 10:00	2/12/2022 11:00	946.8
2/12/2022 11:00	2/12/2022 12:00	911.0
2/12/2022 12:00	2/12/2022 13:00	906.9
2/12/2022 13:00	2/12/2022 14:00	887.1
2/12/2022 14:00	2/12/2022 15:00	875.1
2/12/2022 15:00	2/12/2022 16:00	876.3
2/12/2022 16:00	2/12/2022 17:00	872.5
2/12/2022 17:00	2/12/2022 18:00	929.0
2/12/2022 18:00	2/12/2022 19:00	962.6
2/12/2022 19:00	2/12/2022 20:00	952.8
2/12/2022 20:00	2/12/2022 21:00	924.2
2/12/2022 21:00	2/12/2022 22:00	899.5
2/12/2022 22:00	2/12/2022 23:00	917.8
2/12/2022 23:00	2/13/2022 0:00	924.6
2/13/2022 0:00	2/13/2022 1:00	933.7
2/13/2022 1:00	2/13/2022 2:00	942.4
2/13/2022 2:00	2/13/2022 3:00	950.0
2/13/2022 3:00	2/13/2022 4:00	986.8
2/13/2022 4:00	2/13/2022 5:00	976.9
2/13/2022 5:00	2/13/2022 6:00	997.7
2/13/2022 6:00	2/13/2022 7:00	1079.0
2/13/2022 7:00	2/13/2022 8:00	1145.3
2/13/2022 8:00	2/13/2022 9:00	1223.2
2/13/2022 9:00	2/13/2022 10:00	1323.0
2/13/2022 10:00	2/13/2022 11:00	1408.5
2/13/2022 11:00	2/13/2022 12:00	1523.1
2/13/2022 12:00	2/13/2022 13:00	1589.2
2/13/2022 13:00	2/13/2022 14:00	1576.4
2/13/2022 14:00	2/13/2022 15:00	1581.7
2/13/2022 15:00	2/13/2022 16:00	1595.7
2/13/2022 16:00	2/13/2022 17:00	1662.7
2/13/2022 17:00	2/13/2022 18:00	1722.4
2/13/2022 18:00	2/13/2022 19:00	1689.8
2/13/2022 19:00	2/13/2022 20:00	1643.9
2/13/2022 20:00	2/13/2022 21:00	1623.5
2/13/2022 21:00	2/13/2022 22:00	1543.7
2/13/2022 22:00	2/13/2022 23:00	1446.9
2/13/2022 23:00	2/14/2022 0:00	1339.4
2/14/2022 0:00	2/14/2022 1:00	1302.0
2/14/2022 1:00	2/14/2022 2:00	1256.5
2/14/2022 2:00	2/14/2022 3:00	1236.6
2/14/2022 3:00	2/14/2022 4:00	1232.9
2/14/2022 4:00	2/14/2022 5:00	1279.2
2/14/2022 5:00	2/14/2022 6:00	1283.6
2/14/2022 6:00	2/14/2022 7:00	1392.4
2/14/2022 7:00	2/14/2022 8:00	1435.4
2/14/2022 8:00	2/14/2022 9:00	1483.5
2/14/2022 9:00	2/14/2022 10:00	1545.1

Start Time	End Time	ANL_MW
2/14/2022 10:00	2/14/2022 11:00	1547.2
2/14/2022 11:00	2/14/2022 12:00	1545.6
2/14/2022 12:00	2/14/2022 13:00	1566.4
2/14/2022 13:00	2/14/2022 14:00	1510.1
2/14/2022 14:00	2/14/2022 15:00	1486.2
2/14/2022 15:00	2/14/2022 16:00	1470.4
2/14/2022 16:00	2/14/2022 17:00	1560.7
2/14/2022 17:00	2/14/2022 18:00	1630.6
2/14/2022 18:00	2/14/2022 19:00	1615.5
2/14/2022 19:00	2/14/2022 20:00	1557.3
2/14/2022 20:00	2/14/2022 21:00	1525.5
2/14/2022 21:00	2/14/2022 22:00	1489.0
2/14/2022 22:00	2/14/2022 23:00	1468.9
2/14/2022 23:00	2/15/2022 0:00	1421.7
2/15/2022 0:00	2/15/2022 1:00	1431.9
2/15/2022 1:00	2/15/2022 2:00	1422.9
2/15/2022 2:00	2/15/2022 3:00	1436.3
2/15/2022 3:00	2/15/2022 4:00	1418.0
2/15/2022 4:00	2/15/2022 5:00	1445.8
2/15/2022 5:00	2/15/2022 6:00	1437.7
2/15/2022 6:00	2/15/2022 7:00	1564.9
2/15/2022 7:00	2/15/2022 8:00	1672.3
2/15/2022 8:00	2/15/2022 9:00	1708.0
2/15/2022 9:00	2/15/2022 10:00	1662.3
2/15/2022 10:00	2/15/2022 11:00	1617.1
2/15/2022 11:00	2/15/2022 12:00	1617.4
2/15/2022 12:00	2/15/2022 13:00	1583.7
2/15/2022 13:00	2/15/2022 14:00	1540.1
2/15/2022 14:00	2/15/2022 15:00	1478.9
2/15/2022 15:00	2/15/2022 16:00	1501.0
2/15/2022 16:00	2/15/2022 17:00	1601.0
2/15/2022 17:00	2/15/2022 18:00	1734.0
2/15/2022 18:00	2/15/2022 19:00	1802.1
2/15/2022 19:00	2/15/2022 20:00	1754.7
2/15/2022 20:00	2/15/2022 21:00	1681.7
2/15/2022 21:00	2/15/2022 22:00	1618.7
2/15/2022 22:00	2/15/2022 23:00	1491.4
2/15/2022 23:00	2/16/2022 0:00	1458.6
2/16/2022 0:00	2/16/2022 1:00	1460.7
2/16/2022 1:00	2/16/2022 2:00	1476.3
2/16/2022 2:00	2/16/2022 3:00	1464.1
2/16/2022 3:00	2/16/2022 4:00	1467.2
2/16/2022 4:00	2/16/2022 5:00	1524.8
2/16/2022 5:00	2/16/2022 6:00	1638.2
2/16/2022 6:00	2/16/2022 7:00	1833.0
2/16/2022 7:00	2/16/2022 8:00	1876.9
2/16/2022 8:00	2/16/2022 9:00	1897.2
2/16/2022 9:00	2/16/2022 10:00	1850.3
2/16/2022 10:00	2/16/2022 11:00	1803.7
2/16/2022 11:00	2/16/2022 12:00	1791.8
2/16/2022 12:00	2/16/2022 13:00	1823.7
2/16/2022 13:00	2/16/2022 14:00	1716.8
2/16/2022 14:00	2/16/2022 15:00	1594.1
2/16/2022 15:00	2/16/2022 16:00	1514.9
2/16/2022 16:00	2/16/2022 17:00	1515.3
2/16/2022 17:00	2/16/2022 18:00	1543.7
2/16/2022 18:00	2/16/2022 19:00	1500.5
2/16/2022 19:00	2/16/2022 20:00	1430.9
2/16/2022 20:00	2/16/2022 21:00	1398.8
2/16/2022 21:00	2/16/2022 22:00	1308.7
2/16/2022 22:00	2/16/2022 23:00	1184.2
2/16/2022 23:00	2/17/2022 0:00	1151.9
2/17/2022 0:00	2/17/2022 1:00	1098.4
2/17/2022 1:00	2/17/2022 2:00	1048.1
2/17/2022 2:00	2/17/2022 3:00	1000.5
2/17/2022 3:00	2/17/2022 4:00	995.8
2/17/2022 4:00	2/17/2022 5:00	996.6
2/17/2022 5:00	2/17/2022 6:00	1025.4
2/17/2022 6:00	2/17/2022 7:00	1136.2
2/17/2022 7:00	2/17/2022 8:00	1199.8

Start Time	End Time	ANL_MW
2/17/2022 8:00	2/17/2022 9:00	1175.9
2/17/2022 9:00	2/17/2022 10:00	1176.6
2/17/2022 10:00	2/17/2022 11:00	1149.2
2/17/2022 11:00	2/17/2022 12:00	1086.5
2/17/2022 12:00	2/17/2022 13:00	1045.6
2/17/2022 13:00	2/17/2022 14:00	1007.8
2/17/2022 14:00	2/17/2022 15:00	977.3
2/17/2022 15:00	2/17/2022 16:00	971.9
2/17/2022 16:00	2/17/2022 17:00	1009.3
2/17/2022 17:00	2/17/2022 18:00	1045.4
2/17/2022 18:00	2/17/2022 19:00	1046.8
2/17/2022 19:00	2/17/2022 20:00	1020.1
2/17/2022 20:00	2/17/2022 21:00	989.1
2/17/2022 21:00	2/17/2022 22:00	922.7
2/17/2022 22:00	2/17/2022 23:00	898.1
2/17/2022 23:00	2/18/2022 0:00	884.0
2/18/2022 0:00	2/18/2022 1:00	852.2
2/18/2022 1:00	2/18/2022 2:00	841.4
2/18/2022 2:00	2/18/2022 3:00	848.0
2/18/2022 3:00	2/18/2022 4:00	901.6
2/18/2022 4:00	2/18/2022 5:00	902.8
2/18/2022 5:00	2/18/2022 6:00	958.4
2/18/2022 6:00	2/18/2022 7:00	1068.3
2/18/2022 7:00	2/18/2022 8:00	1200.1
2/18/2022 8:00	2/18/2022 9:00	1207.5
2/18/2022 9:00	2/18/2022 10:00	1237.1
2/18/2022 10:00	2/18/2022 11:00	1257.1
2/18/2022 11:00	2/18/2022 12:00	1274.9
2/18/2022 12:00	2/18/2022 13:00	1301.1
2/18/2022 13:00	2/18/2022 14:00	1205.3
2/18/2022 14:00	2/18/2022 15:00	1098.3
2/18/2022 15:00	2/18/2022 16:00	1044.1
2/18/2022 16:00	2/18/2022 17:00	1145.3
2/18/2022 17:00	2/18/2022 18:00	1283.7
2/18/2022 18:00	2/18/2022 19:00	1348.3
2/18/2022 19:00	2/18/2022 20:00	1347.1
2/18/2022 20:00	2/18/2022 21:00	1303.7
2/18/2022 21:00	2/18/2022 22:00	1280.3
2/18/2022 22:00	2/18/2022 23:00	1214.4
2/18/2022 23:00	2/19/2022 0:00	1243.8
2/19/2022 0:00	2/19/2022 1:00	1263.0
2/19/2022 1:00	2/19/2022 2:00	1274.0
2/19/2022 2:00	2/19/2022 3:00	1324.4
2/19/2022 3:00	2/19/2022 4:00	1340.9
2/19/2022 4:00	2/19/2022 5:00	1382.6
2/19/2022 5:00	2/19/2022 6:00	1439.0
2/19/2022 6:00	2/19/2022 7:00	1538.7
2/19/2022 7:00	2/19/2022 8:00	1643.5
2/19/2022 8:00	2/19/2022 9:00	1707.1
2/19/2022 9:00	2/19/2022 10:00	1719.3
2/19/2022 10:00	2/19/2022 11:00	1691.2
2/19/2022 11:00	2/19/2022 12:00	1643.6
2/19/2022 12:00	2/19/2022 13:00	1586.7
2/19/2022 13:00	2/19/2022 14:00	1488.6
2/19/2022 14:00	2/19/2022 15:00	1419.0
2/19/2022 15:00	2/19/2022 16:00	1396.0
2/19/2022 16:00	2/19/2022 17:00	1412.9
2/19/2022 17:00	2/19/2022 18:00	1516.0
2/19/2022 18:00	2/19/2022 19:00	1594.9
2/19/2022 19:00	2/19/2022 20:00	1572.2
2/19/2022 20:00	2/19/2022 21:00	1545.6
2/19/2022 21:00	2/19/2022 22:00	1401.8
2/19/2022 22:00	2/19/2022 23:00	1306.5
2/19/2022 23:00	2/20/2022 0:00	1319.7
2/20/2022 0:00	2/20/2022 1:00	1282.4
2/20/2022 1:00	2/20/2022 2:00	1230.3
2/20/2022 2:00	2/20/2022 3:00	1219.2
2/20/2022 3:00	2/20/2022 4:00	1223.1
2/20/2022 4:00	2/20/2022 5:00	1203.0
2/20/2022 5:00	2/20/2022 6:00	1193.8

Start Time	End Time	ANL_MW
2/20/2022 6:00	2/20/2022 7:00	1199.0
2/20/2022 7:00	2/20/2022 8:00	1246.4
2/20/2022 8:00	2/20/2022 9:00	1330.9
2/20/2022 9:00	2/20/2022 10:00	1294.0
2/20/2022 10:00	2/20/2022 11:00	1275.4
2/20/2022 11:00	2/20/2022 12:00	1270.3
2/20/2022 12:00	2/20/2022 13:00	1278.6
2/20/2022 13:00	2/20/2022 14:00	1286.3
2/20/2022 14:00	2/20/2022 15:00	1318.0
2/20/2022 15:00	2/20/2022 16:00	1387.8
2/20/2022 16:00	2/20/2022 17:00	1526.1
2/20/2022 17:00	2/20/2022 18:00	1672.0
2/20/2022 18:00	2/20/2022 19:00	1743.2
2/20/2022 19:00	2/20/2022 20:00	1661.4
2/20/2022 20:00	2/20/2022 21:00	1522.6
2/20/2022 21:00	2/20/2022 22:00	1376.6
2/20/2022 22:00	2/20/2022 23:00	1311.8
2/20/2022 23:00	2/21/2022 0:00	1198.4
2/21/2022 0:00	2/21/2022 1:00	1141.4
2/21/2022 1:00	2/21/2022 2:00	1127.3
2/21/2022 2:00	2/21/2022 3:00	1107.4
2/21/2022 3:00	2/21/2022 4:00	1086.3
2/21/2022 4:00	2/21/2022 5:00	1023.9
2/21/2022 5:00	2/21/2022 6:00	1019.8
2/21/2022 6:00	2/21/2022 7:00	1071.7
2/21/2022 7:00	2/21/2022 8:00	1139.5
2/21/2022 8:00	2/21/2022 9:00	1204.9
2/21/2022 9:00	2/21/2022 10:00	1197.0
2/21/2022 10:00	2/21/2022 11:00	1194.0
2/21/2022 11:00	2/21/2022 12:00	1232.1
2/21/2022 12:00	2/21/2022 13:00	1222.6
2/21/2022 13:00	2/21/2022 14:00	1181.7
2/21/2022 14:00	2/21/2022 15:00	1198.6
2/21/2022 15:00	2/21/2022 16:00	1226.7
2/21/2022 16:00	2/21/2022 17:00	1338.1
2/21/2022 17:00	2/21/2022 18:00	1448.5
2/21/2022 18:00	2/21/2022 19:00	1508.0
2/21/2022 19:00	2/21/2022 20:00	1500.8
2/21/2022 20:00	2/21/2022 21:00	1472.9
2/21/2022 21:00	2/21/2022 22:00	1391.3
2/21/2022 22:00	2/21/2022 23:00	1275.1
2/21/2022 23:00	2/22/2022 0:00	1231.2
2/22/2022 0:00	2/22/2022 1:00	1168.9
2/22/2022 1:00	2/22/2022 2:00	1139.7
2/22/2022 2:00	2/22/2022 3:00	1143.1
2/22/2022 3:00	2/22/2022 4:00	1112.7
2/22/2022 4:00	2/22/2022 5:00	1115.6
2/22/2022 5:00	2/22/2022 6:00	1193.1
2/22/2022 6:00	2/22/2022 7:00	1338.0
2/22/2022 7:00	2/22/2022 8:00	1446.6
2/22/2022 8:00	2/22/2022 9:00	1473.0
2/22/2022 9:00	2/22/2022 10:00	1447.0
2/22/2022 10:00	2/22/2022 11:00	1432.0
2/22/2022 11:00	2/22/2022 12:00	1429.1
2/22/2022 12:00	2/22/2022 13:00	1454.4
2/22/2022 13:00	2/22/2022 14:00	1472.9
2/22/2022 14:00	2/22/2022 15:00	1459.0
2/22/2022 15:00	2/22/2022 16:00	1465.9
2/22/2022 16:00	2/22/2022 17:00	1479.7
2/22/2022 17:00	2/22/2022 18:00	1497.4
2/22/2022 18:00	2/22/2022 19:00	1488.9
2/22/2022 19:00	2/22/2022 20:00	1449.1
2/22/2022 20:00	2/22/2022 21:00	1394.9
2/22/2022 21:00	2/22/2022 22:00	1334.7
2/22/2022 22:00	2/22/2022 23:00	1230.4
2/22/2022 23:00	2/23/2022 0:00	1233.0
2/23/2022 0:00	2/23/2022 1:00	1167.7
2/23/2022 1:00	2/23/2022 2:00	1037.6
2/23/2022 2:00	2/23/2022 3:00	949.0
2/23/2022 3:00	2/23/2022 4:00	935.0

Start Time	End Time	ANL_MW
2/23/2022 4:00	2/23/2022 5:00	932.6
2/23/2022 5:00	2/23/2022 6:00	967.7
2/23/2022 6:00	2/23/2022 7:00	1024.1
2/23/2022 7:00	2/23/2022 8:00	1029.6
2/23/2022 8:00	2/23/2022 9:00	1032.1
2/23/2022 9:00	2/23/2022 10:00	995.8
2/23/2022 10:00	2/23/2022 11:00	974.5
2/23/2022 11:00	2/23/2022 12:00	971.5
2/23/2022 12:00	2/23/2022 13:00	971.0
2/23/2022 13:00	2/23/2022 14:00	958.4
2/23/2022 14:00	2/23/2022 15:00	961.9
2/23/2022 15:00	2/23/2022 16:00	972.8
2/23/2022 16:00	2/23/2022 17:00	1068.7
2/23/2022 17:00	2/23/2022 18:00	1144.3
2/23/2022 18:00	2/23/2022 19:00	1113.3
2/23/2022 19:00	2/23/2022 20:00	1032.8
2/23/2022 20:00	2/23/2022 21:00	966.1
2/23/2022 21:00	2/23/2022 22:00	965.7
2/23/2022 22:00	2/23/2022 23:00	972.9
2/23/2022 23:00	2/24/2022 0:00	935.2
2/24/2022 0:00	2/24/2022 1:00	947.8
2/24/2022 1:00	2/24/2022 2:00	944.7
2/24/2022 2:00	2/24/2022 3:00	935.8
2/24/2022 3:00	2/24/2022 4:00	976.6
2/24/2022 4:00	2/24/2022 5:00	1044.5
2/24/2022 5:00	2/24/2022 6:00	1101.9
2/24/2022 6:00	2/24/2022 7:00	1262.7
2/24/2022 7:00	2/24/2022 8:00	1354.3
2/24/2022 8:00	2/24/2022 9:00	1342.4
2/24/2022 9:00	2/24/2022 10:00	1321.2
2/24/2022 10:00	2/24/2022 11:00	1307.1
2/24/2022 11:00	2/24/2022 12:00	1321.5
2/24/2022 12:00	2/24/2022 13:00	1352.9
2/24/2022 13:00	2/24/2022 14:00	1326.0
2/24/2022 14:00	2/24/2022 15:00	1289.9
2/24/2022 15:00	2/24/2022 16:00	1328.0
2/24/2022 16:00	2/24/2022 17:00	1431.9
2/24/2022 17:00	2/24/2022 18:00	1557.1
2/24/2022 18:00	2/24/2022 19:00	1633.3
2/24/2022 19:00	2/24/2022 20:00	1659.6
2/24/2022 20:00	2/24/2022 21:00	1593.4
2/24/2022 21:00	2/24/2022 22:00	1537.9
2/24/2022 22:00	2/24/2022 23:00	1483.4
2/24/2022 23:00	2/25/2022 0:00	1486.2
2/25/2022 0:00	2/25/2022 1:00	1471.6
2/25/2022 1:00	2/25/2022 2:00	1432.9
2/25/2022 2:00	2/25/2022 3:00	1445.8
2/25/2022 3:00	2/25/2022 4:00	1439.8
2/25/2022 4:00	2/25/2022 5:00	1460.1
2/25/2022 5:00	2/25/2022 6:00	1527.5
2/25/2022 6:00	2/25/2022 7:00	1651.6
2/25/2022 7:00	2/25/2022 8:00	1800.1
2/25/2022 8:00	2/25/2022 9:00	1886.8
2/25/2022 9:00	2/25/2022 10:00	1900.2
2/25/2022 10:00	2/25/2022 11:00	1908.9
2/25/2022 11:00	2/25/2022 12:00	1913.3
2/25/2022 12:00	2/25/2022 13:00	1944.2
2/25/2022 13:00	2/25/2022 14:00	1910.5
2/25/2022 14:00	2/25/2022 15:00	1877.1
2/25/2022 15:00	2/25/2022 16:00	1805.5
2/25/2022 16:00	2/25/2022 17:00	1751.3
2/25/2022 17:00	2/25/2022 18:00	1735.3
2/25/2022 18:00	2/25/2022 19:00	1711.1
2/25/2022 19:00	2/25/2022 20:00	1692.7
2/25/2022 20:00	2/25/2022 21:00	1660.2
2/25/2022 21:00	2/25/2022 22:00	1585.4
2/25/2022 22:00	2/25/2022 23:00	1472.4
2/25/2022 23:00	2/26/2022 0:00	1430.2
2/26/2022 0:00	2/26/2022 1:00	1441.8
2/26/2022 1:00	2/26/2022 2:00	1449.3

Start Time	End Time	ANL_MW
2/26/2022 2:00	2/26/2022 3:00	1490.0
2/26/2022 3:00	2/26/2022 4:00	1480.5
2/26/2022 4:00	2/26/2022 5:00	1503.7
2/26/2022 5:00	2/26/2022 6:00	1476.9
2/26/2022 6:00	2/26/2022 7:00	1538.8
2/26/2022 7:00	2/26/2022 8:00	1615.3
2/26/2022 8:00	2/26/2022 9:00	1694.7
2/26/2022 9:00	2/26/2022 10:00	1685.8
2/26/2022 10:00	2/26/2022 11:00	1653.2
2/26/2022 11:00	2/26/2022 12:00	1633.6
2/26/2022 12:00	2/26/2022 13:00	1615.7
2/26/2022 13:00	2/26/2022 14:00	1543.2
2/26/2022 14:00	2/26/2022 15:00	1510.0
2/26/2022 15:00	2/26/2022 16:00	1491.5
2/26/2022 16:00	2/26/2022 17:00	1504.6
2/26/2022 17:00	2/26/2022 18:00	1578.3
2/26/2022 18:00	2/26/2022 19:00	1606.1
2/26/2022 19:00	2/26/2022 20:00	1584.2
2/26/2022 20:00	2/26/2022 21:00	1512.4
2/26/2022 21:00	2/26/2022 22:00	1454.2
2/26/2022 22:00	2/26/2022 23:00	1378.1
2/26/2022 23:00	2/27/2022 0:00	1321.5
2/27/2022 0:00	2/27/2022 1:00	1291.8
2/27/2022 1:00	2/27/2022 2:00	1301.3
2/27/2022 2:00	2/27/2022 3:00	1330.2
2/27/2022 3:00	2/27/2022 4:00	1339.5
2/27/2022 4:00	2/27/2022 5:00	1337.8
2/27/2022 5:00	2/27/2022 6:00	1355.2
2/27/2022 6:00	2/27/2022 7:00	1396.9
2/27/2022 7:00	2/27/2022 8:00	1496.8
2/27/2022 8:00	2/27/2022 9:00	1564.6
2/27/2022 9:00	2/27/2022 10:00	1628.0
2/27/2022 10:00	2/27/2022 11:00	1621.8
2/27/2022 11:00	2/27/2022 12:00	1539.8
2/27/2022 12:00	2/27/2022 13:00	1433.1
2/27/2022 13:00	2/27/2022 14:00	1381.8
2/27/2022 14:00	2/27/2022 15:00	1381.0
2/27/2022 15:00	2/27/2022 16:00	1419.3
2/27/2022 16:00	2/27/2022 17:00	1520.7
2/27/2022 17:00	2/27/2022 18:00	1618.0
2/27/2022 18:00	2/27/2022 19:00	1655.4
2/27/2022 19:00	2/27/2022 20:00	1628.6
2/27/2022 20:00	2/27/2022 21:00	1561.4
2/27/2022 21:00	2/27/2022 22:00	1483.3
2/27/2022 22:00	2/27/2022 23:00	1417.0
2/27/2022 23:00	2/28/2022 0:00	1397.1
2/28/2022 0:00	2/28/2022 1:00	1346.5
2/28/2022 1:00	2/28/2022 2:00	1288.6
2/28/2022 2:00	2/28/2022 3:00	1236.3
2/28/2022 3:00	2/28/2022 4:00	1183.1
2/28/2022 4:00	2/28/2022 5:00	1218.4
2/28/2022 5:00	2/28/2022 6:00	1265.7
2/28/2022 6:00	2/28/2022 7:00	1321.0
2/28/2022 7:00	2/28/2022 8:00	1438.9
2/28/2022 8:00	2/28/2022 9:00	1424.2
2/28/2022 9:00	2/28/2022 10:00	1474.1
2/28/2022 10:00	2/28/2022 11:00	1458.5
2/28/2022 11:00	2/28/2022 12:00	1434.0
2/28/2022 12:00	2/28/2022 13:00	1490.1
2/28/2022 13:00	2/28/2022 14:00	1457.1
2/28/2022 14:00	2/28/2022 15:00	1411.8
2/28/2022 15:00	2/28/2022 16:00	1434.7
2/28/2022 16:00	2/28/2022 17:00	1476.2
2/28/2022 17:00	2/28/2022 18:00	1526.2
2/28/2022 18:00	2/28/2022 19:00	1621.6
2/28/2022 19:00	2/28/2022 20:00	1605.8
2/28/2022 20:00	2/28/2022 21:00	1550.7
2/28/2022 21:00	2/28/2022 22:00	1467.8
2/28/2022 22:00	2/28/2022 23:00	1417.5
2/28/2022 23:00	3/1/2022 0:00	1402.4

Start Time	End Time	ANL_MW
3/1/2022 0:00	3/1/2022 1:00	1430.8
3/1/2022 1:00	3/1/2022 2:00	1461.2
3/1/2022 2:00	3/1/2022 3:00	1471.8
3/1/2022 3:00	3/1/2022 4:00	1473.9
3/1/2022 4:00	3/1/2022 5:00	1530.6
3/1/2022 5:00	3/1/2022 6:00	1593.1
3/1/2022 6:00	3/1/2022 7:00	1780.7
3/1/2022 7:00	3/1/2022 8:00	1880.2
3/1/2022 8:00	3/1/2022 9:00	1914.7
3/1/2022 9:00	3/1/2022 10:00	1869.2
3/1/2022 10:00	3/1/2022 11:00	1790.8
3/1/2022 11:00	3/1/2022 12:00	1717.1
3/1/2022 12:00	3/1/2022 13:00	1682.0
3/1/2022 13:00	3/1/2022 14:00	1611.3
3/1/2022 14:00	3/1/2022 15:00	1539.1
3/1/2022 15:00	3/1/2022 16:00	1501.1
3/1/2022 16:00	3/1/2022 17:00	1541.1
3/1/2022 17:00	3/1/2022 18:00	1638.6
3/1/2022 18:00	3/1/2022 19:00	1747.8
3/1/2022 19:00	3/1/2022 20:00	1726.2
3/1/2022 20:00	3/1/2022 21:00	1579.5
3/1/2022 21:00	3/1/2022 22:00	1393.3
3/1/2022 22:00	3/1/2022 23:00	1312.0
3/1/2022 23:00	3/2/2022 0:00	1349.6
3/2/2022 0:00	3/2/2022 1:00	1333.7
3/2/2022 1:00	3/2/2022 2:00	1334.1
3/2/2022 2:00	3/2/2022 3:00	1263.9
3/2/2022 3:00	3/2/2022 4:00	1143.4
3/2/2022 4:00	3/2/2022 5:00	1119.9
3/2/2022 5:00	3/2/2022 6:00	1169.3
3/2/2022 6:00	3/2/2022 7:00	1281.2
3/2/2022 7:00	3/2/2022 8:00	1369.1
3/2/2022 8:00	3/2/2022 9:00	1422.8
3/2/2022 9:00	3/2/2022 10:00	1407.0
3/2/2022 10:00	3/2/2022 11:00	1388.6
3/2/2022 11:00	3/2/2022 12:00	1398.7
3/2/2022 12:00	3/2/2022 13:00	1390.3
3/2/2022 13:00	3/2/2022 14:00	1338.5
3/2/2022 14:00	3/2/2022 15:00	1304.4
3/2/2022 15:00	3/2/2022 16:00	1321.4
3/2/2022 16:00	3/2/2022 17:00	1407.7
3/2/2022 17:00	3/2/2022 18:00	1477.5
3/2/2022 18:00	3/2/2022 19:00	1564.1
3/2/2022 19:00	3/2/2022 20:00	1588.0
3/2/2022 20:00	3/2/2022 21:00	1529.5
3/2/2022 21:00	3/2/2022 22:00	1463.6
3/2/2022 22:00	3/2/2022 23:00	1432.8
3/2/2022 23:00	3/3/2022 0:00	1427.5
3/3/2022 0:00	3/3/2022 1:00	1422.7
3/3/2022 1:00	3/3/2022 2:00	1415.2
3/3/2022 2:00	3/3/2022 3:00	1399.8
3/3/2022 3:00	3/3/2022 4:00	1404.9
3/3/2022 4:00	3/3/2022 5:00	1414.1
3/3/2022 5:00	3/3/2022 6:00	1480.4
3/3/2022 6:00	3/3/2022 7:00	1609.2
3/3/2022 7:00	3/3/2022 8:00	1677.0
3/3/2022 8:00	3/3/2022 9:00	1719.4
3/3/2022 9:00	3/3/2022 10:00	1716.7
3/3/2022 10:00	3/3/2022 11:00	1689.1
3/3/2022 11:00	3/3/2022 12:00	1667.2
3/3/2022 12:00	3/3/2022 13:00	1667.4
3/3/2022 13:00	3/3/2022 14:00	1611.1
3/3/2022 14:00	3/3/2022 15:00	1575.1
3/3/2022 15:00	3/3/2022 16:00	1575.2
3/3/2022 16:00	3/3/2022 17:00	1556.5
3/3/2022 17:00	3/3/2022 18:00	1550.6
3/3/2022 18:00	3/3/2022 19:00	1592.6
3/3/2022 19:00	3/3/2022 20:00	1623.4
3/3/2022 20:00	3/3/2022 21:00	1601.4
3/3/2022 21:00	3/3/2022 22:00	1427.4

Start Time	End Time	ANL_MW
3/3/2022 22:00	3/3/2022 23:00	1253.6
3/3/2022 23:00	3/4/2022 0:00	1262.1
3/4/2022 0:00	3/4/2022 1:00	1267.9
3/4/2022 1:00	3/4/2022 2:00	1262.2
3/4/2022 2:00	3/4/2022 3:00	1300.9
3/4/2022 3:00	3/4/2022 4:00	1334.6
3/4/2022 4:00	3/4/2022 5:00	1410.9
3/4/2022 5:00	3/4/2022 6:00	1469.4
3/4/2022 6:00	3/4/2022 7:00	1557.6
3/4/2022 7:00	3/4/2022 8:00	1635.3
3/4/2022 8:00	3/4/2022 9:00	1578.0
3/4/2022 9:00	3/4/2022 10:00	1605.0
3/4/2022 10:00	3/4/2022 11:00	1623.7
3/4/2022 11:00	3/4/2022 12:00	1581.5
3/4/2022 12:00	3/4/2022 13:00	1556.3
3/4/2022 13:00	3/4/2022 14:00	1483.9
3/4/2022 14:00	3/4/2022 15:00	1413.2
3/4/2022 15:00	3/4/2022 16:00	1406.1
3/4/2022 16:00	3/4/2022 17:00	1449.2
3/4/2022 17:00	3/4/2022 18:00	1559.5
3/4/2022 18:00	3/4/2022 19:00	1622.2
3/4/2022 19:00	3/4/2022 20:00	1580.4
3/4/2022 20:00	3/4/2022 21:00	1529.4
3/4/2022 21:00	3/4/2022 22:00	1506.4
3/4/2022 22:00	3/4/2022 23:00	1435.1
3/4/2022 23:00	3/5/2022 0:00	1398.4
3/5/2022 0:00	3/5/2022 1:00	1442.5
3/5/2022 1:00	3/5/2022 2:00	1379.6
3/5/2022 2:00	3/5/2022 3:00	1309.0
3/5/2022 3:00	3/5/2022 4:00	1359.8
3/5/2022 4:00	3/5/2022 5:00	1403.3
3/5/2022 5:00	3/5/2022 6:00	1431.0
3/5/2022 6:00	3/5/2022 7:00	1493.5
3/5/2022 7:00	3/5/2022 8:00	1571.8
3/5/2022 8:00	3/5/2022 9:00	1619.4
3/5/2022 9:00	3/5/2022 10:00	1590.8
3/5/2022 10:00	3/5/2022 11:00	1480.3
3/5/2022 11:00	3/5/2022 12:00	1449.8
3/5/2022 12:00	3/5/2022 13:00	1381.1
3/5/2022 13:00	3/5/2022 14:00	1343.8
3/5/2022 14:00	3/5/2022 15:00	1281.6
3/5/2022 15:00	3/5/2022 16:00	1275.9
3/5/2022 16:00	3/5/2022 17:00	1308.8
3/5/2022 17:00	3/5/2022 18:00	1430.9
3/5/2022 18:00	3/5/2022 19:00	1547.4
3/5/2022 19:00	3/5/2022 20:00	1456.2
3/5/2022 20:00	3/5/2022 21:00	1419.8
3/5/2022 21:00	3/5/2022 22:00	1370.6
3/5/2022 22:00	3/5/2022 23:00	1347.7
3/5/2022 23:00	3/6/2022 0:00	1320.6
3/6/2022 0:00	3/6/2022 1:00	1290.2
3/6/2022 1:00	3/6/2022 2:00	1306.2
3/6/2022 2:00	3/6/2022 3:00	1344.9
3/6/2022 3:00	3/6/2022 4:00	1403.9
3/6/2022 4:00	3/6/2022 5:00	1471.2
3/6/2022 5:00	3/6/2022 6:00	1495.8
3/6/2022 6:00	3/6/2022 7:00	1505.8
3/6/2022 7:00	3/6/2022 8:00	1477.8
3/6/2022 8:00	3/6/2022 9:00	1503.6
3/6/2022 9:00	3/6/2022 10:00	1525.6
3/6/2022 10:00	3/6/2022 11:00	1541.3
3/6/2022 11:00	3/6/2022 12:00	1506.7
3/6/2022 12:00	3/6/2022 13:00	1452.0
3/6/2022 13:00	3/6/2022 14:00	1405.6
3/6/2022 14:00	3/6/2022 15:00	1394.8
3/6/2022 15:00	3/6/2022 16:00	1434.9
3/6/2022 16:00	3/6/2022 17:00	1483.8
3/6/2022 17:00	3/6/2022 18:00	1503.2
3/6/2022 18:00	3/6/2022 19:00	1439.5
3/6/2022 19:00	3/6/2022 20:00	1373.1

Start Time	End Time	ANL_MW
3/6/2022 20:00	3/6/2022 21:00	1315.1
3/6/2022 21:00	3/6/2022 22:00	1269.1
3/6/2022 22:00	3/6/2022 23:00	1156.7
3/6/2022 23:00	3/7/2022 0:00	1062.3
3/7/2022 0:00	3/7/2022 1:00	1007.7
3/7/2022 1:00	3/7/2022 2:00	954.1
3/7/2022 2:00	3/7/2022 3:00	924.8
3/7/2022 3:00	3/7/2022 4:00	966.0
3/7/2022 4:00	3/7/2022 5:00	1018.3
3/7/2022 5:00	3/7/2022 6:00	1081.4
3/7/2022 6:00	3/7/2022 7:00	1222.7
3/7/2022 7:00	3/7/2022 8:00	1297.0
3/7/2022 8:00	3/7/2022 9:00	1307.3
3/7/2022 9:00	3/7/2022 10:00	1249.8
3/7/2022 10:00	3/7/2022 11:00	1248.4
3/7/2022 11:00	3/7/2022 12:00	1263.5
3/7/2022 12:00	3/7/2022 13:00	1304.7
3/7/2022 13:00	3/7/2022 14:00	1313.7
3/7/2022 14:00	3/7/2022 15:00	1298.6
3/7/2022 15:00	3/7/2022 16:00	1354.1
3/7/2022 16:00	3/7/2022 17:00	1434.4
3/7/2022 17:00	3/7/2022 18:00	1485.8
3/7/2022 18:00	3/7/2022 19:00	1512.4
3/7/2022 19:00	3/7/2022 20:00	1456.9
3/7/2022 20:00	3/7/2022 21:00	1305.5
3/7/2022 21:00	3/7/2022 22:00	1163.0
3/7/2022 22:00	3/7/2022 23:00	1079.7
3/7/2022 23:00	3/8/2022 0:00	1067.4
3/8/2022 0:00	3/8/2022 1:00	1018.9
3/8/2022 1:00	3/8/2022 2:00	954.1
3/8/2022 2:00	3/8/2022 3:00	919.7
3/8/2022 3:00	3/8/2022 4:00	888.1
3/8/2022 4:00	3/8/2022 5:00	868.0
3/8/2022 5:00	3/8/2022 6:00	916.9
3/8/2022 6:00	3/8/2022 7:00	1015.6
3/8/2022 7:00	3/8/2022 8:00	1084.6
3/8/2022 8:00	3/8/2022 9:00	1123.2
3/8/2022 9:00	3/8/2022 10:00	1134.0
3/8/2022 10:00	3/8/2022 11:00	1120.8
3/8/2022 11:00	3/8/2022 12:00	1141.3
3/8/2022 12:00	3/8/2022 13:00	1167.4
3/8/2022 13:00	3/8/2022 14:00	1155.6
3/8/2022 14:00	3/8/2022 15:00	1130.8
3/8/2022 15:00	3/8/2022 16:00	1149.8
3/8/2022 16:00	3/8/2022 17:00	1186.8
3/8/2022 17:00	3/8/2022 18:00	1206.1
3/8/2022 18:00	3/8/2022 19:00	1251.9
3/8/2022 19:00	3/8/2022 20:00	1250.2
3/8/2022 20:00	3/8/2022 21:00	1206.9
3/8/2022 21:00	3/8/2022 22:00	1147.2
3/8/2022 22:00	3/8/2022 23:00	1077.5
3/8/2022 23:00	3/9/2022 0:00	1110.2
3/9/2022 0:00	3/9/2022 1:00	1109.3
3/9/2022 1:00	3/9/2022 2:00	1104.4
3/9/2022 2:00	3/9/2022 3:00	1098.8
3/9/2022 3:00	3/9/2022 4:00	1146.2
3/9/2022 4:00	3/9/2022 5:00	1209.5
3/9/2022 5:00	3/9/2022 6:00	1246.9
3/9/2022 6:00	3/9/2022 7:00	1415.7
3/9/2022 7:00	3/9/2022 8:00	1550.1
3/9/2022 8:00	3/9/2022 9:00	1563.9
3/9/2022 9:00	3/9/2022 10:00	1549.7
3/9/2022 10:00	3/9/2022 11:00	1540.2
3/9/2022 11:00	3/9/2022 12:00	1521.3
3/9/2022 12:00	3/9/2022 13:00	1515.1
3/9/2022 13:00	3/9/2022 14:00	1462.9
3/9/2022 14:00	3/9/2022 15:00	1388.4
3/9/2022 15:00	3/9/2022 16:00	1407.1
3/9/2022 16:00	3/9/2022 17:00	1502.9
3/9/2022 17:00	3/9/2022 18:00	1588.6

Start Time	End Time	ANL_MW
3/9/2022 18:00	3/9/2022 19:00	1611.3
3/9/2022 19:00	3/9/2022 20:00	1616.3
3/9/2022 20:00	3/9/2022 21:00	1584.8
3/9/2022 21:00	3/9/2022 22:00	1533.3
3/9/2022 22:00	3/9/2022 23:00	1455.6
3/9/2022 23:00	3/10/2022 0:00	1448.5
3/10/2022 0:00	3/10/2022 1:00	1439.0
3/10/2022 1:00	3/10/2022 2:00	1420.6
3/10/2022 2:00	3/10/2022 3:00	1395.0
3/10/2022 3:00	3/10/2022 4:00	1382.4
3/10/2022 4:00	3/10/2022 5:00	1391.2
3/10/2022 5:00	3/10/2022 6:00	1434.7
3/10/2022 6:00	3/10/2022 7:00	1541.2
3/10/2022 7:00	3/10/2022 8:00	1591.0
3/10/2022 8:00	3/10/2022 9:00	1562.7
3/10/2022 9:00	3/10/2022 10:00	1475.8
3/10/2022 10:00	3/10/2022 11:00	1380.7
3/10/2022 11:00	3/10/2022 12:00	1388.3
3/10/2022 12:00	3/10/2022 13:00	1333.1
3/10/2022 13:00	3/10/2022 14:00	1250.2
3/10/2022 14:00	3/10/2022 15:00	1196.8
3/10/2022 15:00	3/10/2022 16:00	1170.0
3/10/2022 16:00	3/10/2022 17:00	1227.9
3/10/2022 17:00	3/10/2022 18:00	1337.1
3/10/2022 18:00	3/10/2022 19:00	1407.5
3/10/2022 19:00	3/10/2022 20:00	1399.7
3/10/2022 20:00	3/10/2022 21:00	1335.6
3/10/2022 21:00	3/10/2022 22:00	1278.8
3/10/2022 22:00	3/10/2022 23:00	1261.4
3/10/2022 23:00	3/11/2022 0:00	1296.0
3/11/2022 0:00	3/11/2022 1:00	1287.7
3/11/2022 1:00	3/11/2022 2:00	1271.7
3/11/2022 2:00	3/11/2022 3:00	1282.7
3/11/2022 3:00	3/11/2022 4:00	1295.1
3/11/2022 4:00	3/11/2022 5:00	1332.8
3/11/2022 5:00	3/11/2022 6:00	1432.1
3/11/2022 6:00	3/11/2022 7:00	1509.5
3/11/2022 7:00	3/11/2022 8:00	1612.7
3/11/2022 8:00	3/11/2022 9:00	1588.7
3/11/2022 9:00	3/11/2022 10:00	1515.9
3/11/2022 10:00	3/11/2022 11:00	1452.4
3/11/2022 11:00	3/11/2022 12:00	1398.2
3/11/2022 12:00	3/11/2022 13:00	1361.2
3/11/2022 13:00	3/11/2022 14:00	1295.4
3/11/2022 14:00	3/11/2022 15:00	1249.3
3/11/2022 15:00	3/11/2022 16:00	1243.7
3/11/2022 16:00	3/11/2022 17:00	1279.6
3/11/2022 17:00	3/11/2022 18:00	1336.1
3/11/2022 18:00	3/11/2022 19:00	1369.1
3/11/2022 19:00	3/11/2022 20:00	1363.2
3/11/2022 20:00	3/11/2022 21:00	1341.4
3/11/2022 21:00	3/11/2022 22:00	1359.5
3/11/2022 22:00	3/11/2022 23:00	1323.3
3/11/2022 23:00	3/12/2022 0:00	1304.7
3/12/2022 0:00	3/12/2022 1:00	1287.2
3/12/2022 1:00	3/12/2022 2:00	1282.3
3/12/2022 2:00	3/12/2022 3:00	1241.2
3/12/2022 3:00	3/12/2022 4:00	1208.1
3/12/2022 4:00	3/12/2022 5:00	1159.5
3/12/2022 5:00	3/12/2022 6:00	1190.5
3/12/2022 6:00	3/12/2022 7:00	1188.4
3/12/2022 7:00	3/12/2022 8:00	1221.4
3/12/2022 8:00	3/12/2022 9:00	1181.0
3/12/2022 9:00	3/12/2022 10:00	1156.6
3/12/2022 10:00	3/12/2022 11:00	1127.1
3/12/2022 11:00	3/12/2022 12:00	1108.0
3/12/2022 12:00	3/12/2022 13:00	1066.9
3/12/2022 13:00	3/12/2022 14:00	1017.7
3/12/2022 14:00	3/12/2022 15:00	1025.9
3/12/2022 15:00	3/12/2022 16:00	1047.2

Start Time	End Time	ANL_MW
3/12/2022 16:00	3/12/2022 17:00	1098.2
3/12/2022 17:00	3/12/2022 18:00	1150.7
3/12/2022 18:00	3/12/2022 19:00	1089.6
3/12/2022 19:00	3/12/2022 20:00	1054.8
3/12/2022 20:00	3/12/2022 21:00	1030.0
3/12/2022 21:00	3/12/2022 22:00	942.3
3/12/2022 22:00	3/12/2022 23:00	898.3
3/12/2022 23:00	3/13/2022 0:00	854.1
3/13/2022 0:00	3/13/2022 1:00	804.6
3/13/2022 1:00	3/13/2022 1:59	847.4
3/13/2022 1:59	3/13/2022 4:00	884.2
3/13/2022 4:00	3/13/2022 5:00	884.6
3/13/2022 5:00	3/13/2022 6:00	910.3
3/13/2022 6:00	3/13/2022 7:00	975.0
3/13/2022 7:00	3/13/2022 8:00	1079.5
3/13/2022 8:00	3/13/2022 9:00	1154.8
3/13/2022 9:00	3/13/2022 10:00	1247.3
3/13/2022 10:00	3/13/2022 11:00	1257.9
3/13/2022 11:00	3/13/2022 12:00	1311.2
3/13/2022 12:00	3/13/2022 13:00	1298.3
3/13/2022 13:00	3/13/2022 14:00	1273.7
3/13/2022 14:00	3/13/2022 15:00	1277.2
3/13/2022 15:00	3/13/2022 16:00	1271.2
3/13/2022 16:00	3/13/2022 17:00	1268.8
3/13/2022 17:00	3/13/2022 18:00	1270.9
3/13/2022 18:00	3/13/2022 19:00	1234.1
3/13/2022 19:00	3/13/2022 20:00	1280.8
3/13/2022 20:00	3/13/2022 21:00	1322.0
3/13/2022 21:00	3/13/2022 22:00	1309.5
3/13/2022 22:00	3/13/2022 23:00	1265.3
3/13/2022 23:00	3/14/2022 0:00	1179.7
3/14/2022 0:00	3/14/2022 1:00	1126.3
3/14/2022 1:00	3/14/2022 2:00	1142.1
3/14/2022 2:00	3/14/2022 3:00	1211.5
3/14/2022 3:00	3/14/2022 4:00	1289.9
3/14/2022 4:00	3/14/2022 5:00	1314.6
3/14/2022 5:00	3/14/2022 6:00	1367.3
3/14/2022 6:00	3/14/2022 7:00	1498.7
3/14/2022 7:00	3/14/2022 8:00	1556.5
3/14/2022 8:00	3/14/2022 9:00	1613.8
3/14/2022 9:00	3/14/2022 10:00	1619.1
3/14/2022 10:00	3/14/2022 11:00	1560.7
3/14/2022 11:00	3/14/2022 12:00	1492.5
3/14/2022 12:00	3/14/2022 13:00	1375.7
3/14/2022 13:00	3/14/2022 14:00	1256.0
3/14/2022 14:00	3/14/2022 15:00	1184.3
3/14/2022 15:00	3/14/2022 16:00	1159.7
3/14/2022 16:00	3/14/2022 17:00	1236.2
3/14/2022 17:00	3/14/2022 18:00	1347.7
3/14/2022 18:00	3/14/2022 19:00	1385.9
3/14/2022 19:00	3/14/2022 20:00	1435.1
3/14/2022 20:00	3/14/2022 21:00	1424.3
3/14/2022 21:00	3/14/2022 22:00	1324.4
3/14/2022 22:00	3/14/2022 23:00	1227.8
3/14/2022 23:00	3/15/2022 0:00	1192.1
3/15/2022 0:00	3/15/2022 1:00	1181.2
3/15/2022 1:00	3/15/2022 2:00	1147.6
3/15/2022 2:00	3/15/2022 3:00	1107.8
3/15/2022 3:00	3/15/2022 4:00	1069.1
3/15/2022 4:00	3/15/2022 5:00	1059.8
3/15/2022 5:00	3/15/2022 6:00	1100.1
3/15/2022 6:00	3/15/2022 7:00	1166.8
3/15/2022 7:00	3/15/2022 8:00	1287.0
3/15/2022 8:00	3/15/2022 9:00	1339.4
3/15/2022 9:00	3/15/2022 10:00	1428.8
3/15/2022 10:00	3/15/2022 11:00	1468.7
3/15/2022 11:00	3/15/2022 12:00	1450.4
3/15/2022 12:00	3/15/2022 13:00	1372.9
3/15/2022 13:00	3/15/2022 14:00	1285.1
3/15/2022 14:00	3/15/2022 15:00	1199.1

Start Time	End Time	ANL_MW
3/15/2022 15:00	3/15/2022 16:00	1125.6
3/15/2022 16:00	3/15/2022 17:00	1119.4
3/15/2022 17:00	3/15/2022 18:00	1183.1
3/15/2022 18:00	3/15/2022 19:00	1240.9
3/15/2022 19:00	3/15/2022 20:00	1315.4
3/15/2022 20:00	3/15/2022 21:00	1311.1
3/15/2022 21:00	3/15/2022 22:00	1271.5
3/15/2022 22:00	3/15/2022 23:00	1215.0
3/15/2022 23:00	3/16/2022 0:00	1236.2
3/16/2022 0:00	3/16/2022 1:00	1294.3
3/16/2022 1:00	3/16/2022 2:00	1291.1
3/16/2022 2:00	3/16/2022 3:00	1257.9
3/16/2022 3:00	3/16/2022 4:00	1249.2
3/16/2022 4:00	3/16/2022 5:00	1274.6
3/16/2022 5:00	3/16/2022 6:00	1321.7
3/16/2022 6:00	3/16/2022 7:00	1436.4
3/16/2022 7:00	3/16/2022 8:00	1548.3
3/16/2022 8:00	3/16/2022 9:00	1620.9
3/16/2022 9:00	3/16/2022 10:00	1625.3
3/16/2022 10:00	3/16/2022 11:00	1614.7
3/16/2022 11:00	3/16/2022 12:00	1603.8
3/16/2022 12:00	3/16/2022 13:00	1588.5
3/16/2022 13:00	3/16/2022 14:00	1554.2
3/16/2022 14:00	3/16/2022 15:00	1498.5
3/16/2022 15:00	3/16/2022 16:00	1463.2
3/16/2022 16:00	3/16/2022 17:00	1426.5
3/16/2022 17:00	3/16/2022 18:00	1407.8
3/16/2022 18:00	3/16/2022 19:00	1389.7
3/16/2022 19:00	3/16/2022 20:00	1410.9
3/16/2022 20:00	3/16/2022 21:00	1416.3
3/16/2022 21:00	3/16/2022 22:00	1356.6
3/16/2022 22:00	3/16/2022 23:00	1237.6
3/16/2022 23:00	3/17/2022 0:00	1178.2
3/17/2022 0:00	3/17/2022 1:00	1188.8
3/17/2022 1:00	3/17/2022 2:00	1129.8
3/17/2022 2:00	3/17/2022 3:00	1083.1
3/17/2022 3:00	3/17/2022 4:00	1077.6
3/17/2022 4:00	3/17/2022 5:00	1137.3
3/17/2022 5:00	3/17/2022 6:00	1159.3
3/17/2022 6:00	3/17/2022 7:00	1262.4
3/17/2022 7:00	3/17/2022 8:00	1337.3
3/17/2022 8:00	3/17/2022 9:00	1385.1
3/17/2022 9:00	3/17/2022 10:00	1392.7
3/17/2022 10:00	3/17/2022 11:00	1354.0
3/17/2022 11:00	3/17/2022 12:00	1327.9
3/17/2022 12:00	3/17/2022 13:00	1272.5
3/17/2022 13:00	3/17/2022 14:00	1200.1
3/17/2022 14:00	3/17/2022 15:00	1122.2
3/17/2022 15:00	3/17/2022 16:00	1095.2
3/17/2022 16:00	3/17/2022 17:00	1118.3
3/17/2022 17:00	3/17/2022 18:00	1104.2
3/17/2022 18:00	3/17/2022 19:00	1083.1
3/17/2022 19:00	3/17/2022 20:00	1107.7
3/17/2022 20:00	3/17/2022 21:00	1093.4
3/17/2022 21:00	3/17/2022 22:00	1042.6
3/17/2022 22:00	3/17/2022 23:00	1017.4
3/17/2022 23:00	3/18/2022 0:00	974.5
3/18/2022 0:00	3/18/2022 1:00	966.8
3/18/2022 1:00	3/18/2022 2:00	962.9
3/18/2022 2:00	3/18/2022 3:00	946.8
3/18/2022 3:00	3/18/2022 4:00	974.0
3/18/2022 4:00	3/18/2022 5:00	998.7
3/18/2022 5:00	3/18/2022 6:00	1102.0
3/18/2022 6:00	3/18/2022 7:00	1147.1
3/18/2022 7:00	3/18/2022 8:00	1237.2
3/18/2022 8:00	3/18/2022 9:00	1310.9
3/18/2022 9:00	3/18/2022 10:00	1357.4
3/18/2022 10:00	3/18/2022 11:00	1356.4
3/18/2022 11:00	3/18/2022 12:00	1343.1
3/18/2022 12:00	3/18/2022 13:00	1326.1

Start Time	End Time	ANL_MW
3/18/2022 13:00	3/18/2022 14:00	1260.9
3/18/2022 14:00	3/18/2022 15:00	1182.5
3/18/2022 15:00	3/18/2022 16:00	1051.3
3/18/2022 16:00	3/18/2022 17:00	1033.1
3/18/2022 17:00	3/18/2022 18:00	1049.4
3/18/2022 18:00	3/18/2022 19:00	1049.0
3/18/2022 19:00	3/18/2022 20:00	1072.2
3/18/2022 20:00	3/18/2022 21:00	1113.7
3/18/2022 21:00	3/18/2022 22:00	1102.9
3/18/2022 22:00	3/18/2022 23:00	1111.7
3/18/2022 23:00	3/19/2022 0:00	1110.3
3/19/2022 0:00	3/19/2022 1:00	1079.8
3/19/2022 1:00	3/19/2022 2:00	1051.8
3/19/2022 2:00	3/19/2022 3:00	1028.1
3/19/2022 3:00	3/19/2022 4:00	1031.1
3/19/2022 4:00	3/19/2022 5:00	1039.1
3/19/2022 5:00	3/19/2022 6:00	1043.7
3/19/2022 6:00	3/19/2022 7:00	1073.2
3/19/2022 7:00	3/19/2022 8:00	1143.8
3/19/2022 8:00	3/19/2022 9:00	1252.6
3/19/2022 9:00	3/19/2022 10:00	1337.4
3/19/2022 10:00	3/19/2022 11:00	1363.5
3/19/2022 11:00	3/19/2022 12:00	1391.5
3/19/2022 12:00	3/19/2022 13:00	1387.5
3/19/2022 13:00	3/19/2022 14:00	1378.9
3/19/2022 14:00	3/19/2022 15:00	1360.3
3/19/2022 15:00	3/19/2022 16:00	1326.6
3/19/2022 16:00	3/19/2022 17:00	1333.0
3/19/2022 17:00	3/19/2022 18:00	1345.0
3/19/2022 18:00	3/19/2022 19:00	1268.8
3/19/2022 19:00	3/19/2022 20:00	1236.3
3/19/2022 20:00	3/19/2022 21:00	1153.8
3/19/2022 21:00	3/19/2022 22:00	1069.8
3/19/2022 22:00	3/19/2022 23:00	1030.8
3/19/2022 23:00	3/20/2022 0:00	959.3
3/20/2022 0:00	3/20/2022 1:00	917.0
3/20/2022 1:00	3/20/2022 2:00	941.3
3/20/2022 2:00	3/20/2022 3:00	990.1
3/20/2022 3:00	3/20/2022 4:00	1002.1
3/20/2022 4:00	3/20/2022 5:00	1030.2
3/20/2022 5:00	3/20/2022 6:00	1037.2
3/20/2022 6:00	3/20/2022 7:00	1050.7
3/20/2022 7:00	3/20/2022 8:00	1060.1
3/20/2022 8:00	3/20/2022 9:00	1138.0
3/20/2022 9:00	3/20/2022 10:00	1178.6
3/20/2022 10:00	3/20/2022 11:00	1189.8
3/20/2022 11:00	3/20/2022 12:00	1212.5
3/20/2022 12:00	3/20/2022 13:00	1206.8
3/20/2022 13:00	3/20/2022 14:00	1149.4
3/20/2022 14:00	3/20/2022 15:00	1131.0
3/20/2022 15:00	3/20/2022 16:00	1142.0
3/20/2022 16:00	3/20/2022 17:00	1228.5
3/20/2022 17:00	3/20/2022 18:00	1307.5
3/20/2022 18:00	3/20/2022 19:00	1321.9
3/20/2022 19:00	3/20/2022 20:00	1348.0
3/20/2022 20:00	3/20/2022 21:00	1354.3
3/20/2022 21:00	3/20/2022 22:00	1306.1
3/20/2022 22:00	3/20/2022 23:00	1256.3
3/20/2022 23:00	3/21/2022 0:00	1204.5
3/21/2022 0:00	3/21/2022 1:00	1143.7
3/21/2022 1:00	3/21/2022 2:00	1101.4
3/21/2022 2:00	3/21/2022 3:00	1084.1
3/21/2022 3:00	3/21/2022 4:00	1061.6
3/21/2022 4:00	3/21/2022 5:00	1057.5
3/21/2022 5:00	3/21/2022 6:00	1093.7
3/21/2022 6:00	3/21/2022 7:00	1158.3
3/21/2022 7:00	3/21/2022 8:00	1281.6
3/21/2022 8:00	3/21/2022 9:00	1342.9
3/21/2022 9:00	3/21/2022 10:00	1365.9
3/21/2022 10:00	3/21/2022 11:00	1338.6

Start Time	End Time	ANL_MW
3/21/2022 11:00	3/21/2022 12:00	1269.2
3/21/2022 12:00	3/21/2022 13:00	1214.2
3/21/2022 13:00	3/21/2022 14:00	1185.0
3/21/2022 14:00	3/21/2022 15:00	1138.1
3/21/2022 15:00	3/21/2022 16:00	1171.1
3/21/2022 16:00	3/21/2022 17:00	1206.3
3/21/2022 17:00	3/21/2022 18:00	1246.4
3/21/2022 18:00	3/21/2022 19:00	1222.1
3/21/2022 19:00	3/21/2022 20:00	1251.7
3/21/2022 20:00	3/21/2022 21:00	1252.6
3/21/2022 21:00	3/21/2022 22:00	1150.7
3/21/2022 22:00	3/21/2022 23:00	1057.3
3/21/2022 23:00	3/22/2022 0:00	1041.9
3/22/2022 0:00	3/22/2022 1:00	984.0
3/22/2022 1:00	3/22/2022 2:00	969.7
3/22/2022 2:00	3/22/2022 3:00	955.0
3/22/2022 3:00	3/22/2022 4:00	934.6
3/22/2022 4:00	3/22/2022 5:00	936.0
3/22/2022 5:00	3/22/2022 6:00	982.3
3/22/2022 6:00	3/22/2022 7:00	1093.5
3/22/2022 7:00	3/22/2022 8:00	1190.0
3/22/2022 8:00	3/22/2022 9:00	1209.0
3/22/2022 9:00	3/22/2022 10:00	1178.0
3/22/2022 10:00	3/22/2022 11:00	1152.4
3/22/2022 11:00	3/22/2022 12:00	1147.0
3/22/2022 12:00	3/22/2022 13:00	1134.8
3/22/2022 13:00	3/22/2022 14:00	1097.7
3/22/2022 14:00	3/22/2022 15:00	1051.3
3/22/2022 15:00	3/22/2022 16:00	1028.1
3/22/2022 16:00	3/22/2022 17:00	1059.5
3/22/2022 17:00	3/22/2022 18:00	1098.3
3/22/2022 18:00	3/22/2022 19:00	1085.8
3/22/2022 19:00	3/22/2022 20:00	1127.4
3/22/2022 20:00	3/22/2022 21:00	1139.9
3/22/2022 21:00	3/22/2022 22:00	1063.0
3/22/2022 22:00	3/22/2022 23:00	997.7
3/22/2022 23:00	3/23/2022 0:00	967.2
3/23/2022 0:00	3/23/2022 1:00	972.7
3/23/2022 1:00	3/23/2022 2:00	986.0
3/23/2022 2:00	3/23/2022 3:00	964.8
3/23/2022 3:00	3/23/2022 4:00	941.6
3/23/2022 4:00	3/23/2022 5:00	939.7
3/23/2022 5:00	3/23/2022 6:00	985.3
3/23/2022 6:00	3/23/2022 7:00	1091.5
3/23/2022 7:00	3/23/2022 8:00	1197.5
3/23/2022 8:00	3/23/2022 9:00	1215.0
3/23/2022 9:00	3/23/2022 10:00	1172.5
3/23/2022 10:00	3/23/2022 11:00	1143.1
3/23/2022 11:00	3/23/2022 12:00	1136.9
3/23/2022 12:00	3/23/2022 13:00	1108.1
3/23/2022 13:00	3/23/2022 14:00	1058.5
3/23/2022 14:00	3/23/2022 15:00	1006.3
3/23/2022 15:00	3/23/2022 16:00	988.6
3/23/2022 16:00	3/23/2022 17:00	1027.3
3/23/2022 17:00	3/23/2022 18:00	1090.4
3/23/2022 18:00	3/23/2022 19:00	1142.7
3/23/2022 19:00	3/23/2022 20:00	1252.4
3/23/2022 20:00	3/23/2022 21:00	1343.7
3/23/2022 21:00	3/23/2022 22:00	1340.0
3/23/2022 22:00	3/23/2022 23:00	1291.7
3/23/2022 23:00	3/24/2022 0:00	1296.6
3/24/2022 0:00	3/24/2022 1:00	1200.8
3/24/2022 1:00	3/24/2022 2:00	1188.4
3/24/2022 2:00	3/24/2022 3:00	1145.8
3/24/2022 3:00	3/24/2022 4:00	1141.6
3/24/2022 4:00	3/24/2022 5:00	1138.0
3/24/2022 5:00	3/24/2022 6:00	1212.7
3/24/2022 6:00	3/24/2022 7:00	1346.8
3/24/2022 7:00	3/24/2022 8:00	1442.6
3/24/2022 8:00	3/24/2022 9:00	1448.9

Start Time	End Time	ANL_MW
3/24/2022 9:00	3/24/2022 10:00	1458.3
3/24/2022 10:00	3/24/2022 11:00	1402.9
3/24/2022 11:00	3/24/2022 12:00	1417.9
3/24/2022 12:00	3/24/2022 13:00	1389.7
3/24/2022 13:00	3/24/2022 14:00	1364.3
3/24/2022 14:00	3/24/2022 15:00	1328.4
3/24/2022 15:00	3/24/2022 16:00	1347.6
3/24/2022 16:00	3/24/2022 17:00	1367.1
3/24/2022 17:00	3/24/2022 18:00	1400.7
3/24/2022 18:00	3/24/2022 19:00	1387.9
3/24/2022 19:00	3/24/2022 20:00	1411.5
3/24/2022 20:00	3/24/2022 21:00	1437.2
3/24/2022 21:00	3/24/2022 22:00	1410.1
3/24/2022 22:00	3/24/2022 23:00	1320.5
3/24/2022 23:00	3/25/2022 0:00	1240.1
3/25/2022 0:00	3/25/2022 1:00	1175.8
3/25/2022 1:00	3/25/2022 2:00	1146.9
3/25/2022 2:00	3/25/2022 3:00	1110.9
3/25/2022 3:00	3/25/2022 4:00	1101.4
3/25/2022 4:00	3/25/2022 5:00	1132.4
3/25/2022 5:00	3/25/2022 6:00	1176.8
3/25/2022 6:00	3/25/2022 7:00	1260.7
3/25/2022 7:00	3/25/2022 8:00	1321.4
3/25/2022 8:00	3/25/2022 9:00	1352.3
3/25/2022 9:00	3/25/2022 10:00	1285.3
3/25/2022 10:00	3/25/2022 11:00	1284.1
3/25/2022 11:00	3/25/2022 12:00	1253.7
3/25/2022 12:00	3/25/2022 13:00	1247.9
3/25/2022 13:00	3/25/2022 14:00	1176.0
3/25/2022 14:00	3/25/2022 15:00	1151.0
3/25/2022 15:00	3/25/2022 16:00	1166.1
3/25/2022 16:00	3/25/2022 17:00	1193.6
3/25/2022 17:00	3/25/2022 18:00	1212.8
3/25/2022 18:00	3/25/2022 19:00	1200.9
3/25/2022 19:00	3/25/2022 20:00	1199.5
3/25/2022 20:00	3/25/2022 21:00	1175.8
3/25/2022 21:00	3/25/2022 22:00	1125.6
3/25/2022 22:00	3/25/2022 23:00	1057.1
3/25/2022 23:00	3/26/2022 0:00	1080.7
3/26/2022 0:00	3/26/2022 1:00	1077.8
3/26/2022 1:00	3/26/2022 2:00	989.7
3/26/2022 2:00	3/26/2022 3:00	932.6
3/26/2022 3:00	3/26/2022 4:00	885.4
3/26/2022 4:00	3/26/2022 5:00	860.3
3/26/2022 5:00	3/26/2022 6:00	879.0
3/26/2022 6:00	3/26/2022 7:00	963.4
3/26/2022 7:00	3/26/2022 8:00	1037.2
3/26/2022 8:00	3/26/2022 9:00	1119.7
3/26/2022 9:00	3/26/2022 10:00	1206.1
3/26/2022 10:00	3/26/2022 11:00	1213.8
3/26/2022 11:00	3/26/2022 12:00	1207.0
3/26/2022 12:00	3/26/2022 13:00	1183.4
3/26/2022 13:00	3/26/2022 14:00	1126.6
3/26/2022 14:00	3/26/2022 15:00	1029.8
3/26/2022 15:00	3/26/2022 16:00	988.9
3/26/2022 16:00	3/26/2022 17:00	995.1
3/26/2022 17:00	3/26/2022 18:00	1018.2
3/26/2022 18:00	3/26/2022 19:00	1043.6
3/26/2022 19:00	3/26/2022 20:00	1127.8
3/26/2022 20:00	3/26/2022 21:00	1150.8
3/26/2022 21:00	3/26/2022 22:00	1071.1
3/26/2022 22:00	3/26/2022 23:00	1061.6
3/26/2022 23:00	3/27/2022 0:00	1030.1
3/27/2022 0:00	3/27/2022 1:00	993.1
3/27/2022 1:00	3/27/2022 2:00	968.2
3/27/2022 2:00	3/27/2022 3:00	935.3
3/27/2022 3:00	3/27/2022 4:00	911.4
3/27/2022 4:00	3/27/2022 5:00	876.9
3/27/2022 5:00	3/27/2022 6:00	905.4
3/27/2022 6:00	3/27/2022 7:00	892.6

Start Time	End Time	ANL_MW
3/27/2022 7:00	3/27/2022 8:00	915.5
3/27/2022 8:00	3/27/2022 9:00	1028.1
3/27/2022 9:00	3/27/2022 10:00	1094.5
3/27/2022 10:00	3/27/2022 11:00	1101.3
3/27/2022 11:00	3/27/2022 12:00	1099.0
3/27/2022 12:00	3/27/2022 13:00	1100.4
3/27/2022 13:00	3/27/2022 14:00	1105.3
3/27/2022 14:00	3/27/2022 15:00	1147.8
3/27/2022 15:00	3/27/2022 16:00	1202.3
3/27/2022 16:00	3/27/2022 17:00	1224.1
3/27/2022 17:00	3/27/2022 18:00	1241.7
3/27/2022 18:00	3/27/2022 19:00	1206.2
3/27/2022 19:00	3/27/2022 20:00	1235.0
3/27/2022 20:00	3/27/2022 21:00	1229.4
3/27/2022 21:00	3/27/2022 22:00	1145.9
3/27/2022 22:00	3/27/2022 23:00	1041.0
3/27/2022 23:00	3/28/2022 0:00	1068.8
3/28/2022 0:00	3/28/2022 1:00	1045.1
3/28/2022 1:00	3/28/2022 2:00	1050.8
3/28/2022 2:00	3/28/2022 3:00	1026.9
3/28/2022 3:00	3/28/2022 4:00	1054.4
3/28/2022 4:00	3/28/2022 5:00	1083.6
3/28/2022 5:00	3/28/2022 6:00	1155.9
3/28/2022 6:00	3/28/2022 7:00	1223.1
3/28/2022 7:00	3/28/2022 8:00	1303.0
3/28/2022 8:00	3/28/2022 9:00	1331.8
3/28/2022 9:00	3/28/2022 10:00	1330.2
3/28/2022 10:00	3/28/2022 11:00	1300.9
3/28/2022 11:00	3/28/2022 12:00	1244.5
3/28/2022 12:00	3/28/2022 13:00	1200.2
3/28/2022 13:00	3/28/2022 14:00	1218.8
3/28/2022 14:00	3/28/2022 15:00	1221.6
3/28/2022 15:00	3/28/2022 16:00	1200.7
3/28/2022 16:00	3/28/2022 17:00	1276.7
3/28/2022 17:00	3/28/2022 18:00	1315.3
3/28/2022 18:00	3/28/2022 19:00	1316.9
3/28/2022 19:00	3/28/2022 20:00	1287.5
3/28/2022 20:00	3/28/2022 21:00	1293.1
3/28/2022 21:00	3/28/2022 22:00	1222.0
3/28/2022 22:00	3/28/2022 23:00	1202.0
3/28/2022 23:00	3/29/2022 0:00	1159.3
3/29/2022 0:00	3/29/2022 1:00	1144.5
3/29/2022 1:00	3/29/2022 2:00	1116.4
3/29/2022 2:00	3/29/2022 3:00	1085.3
3/29/2022 3:00	3/29/2022 4:00	1077.8
3/29/2022 4:00	3/29/2022 5:00	1086.4
3/29/2022 5:00	3/29/2022 6:00	1134.7
3/29/2022 6:00	3/29/2022 7:00	1244.5
3/29/2022 7:00	3/29/2022 8:00	1287.1
3/29/2022 8:00	3/29/2022 9:00	1293.7
3/29/2022 9:00	3/29/2022 10:00	1284.0
3/29/2022 10:00	3/29/2022 11:00	1248.2
3/29/2022 11:00	3/29/2022 12:00	1237.9
3/29/2022 12:00	3/29/2022 13:00	1230.7
3/29/2022 13:00	3/29/2022 14:00	1203.5
3/29/2022 14:00	3/29/2022 15:00	1145.3
3/29/2022 15:00	3/29/2022 16:00	1129.0
3/29/2022 16:00	3/29/2022 17:00	1141.3
3/29/2022 17:00	3/29/2022 18:00	1161.9
3/29/2022 18:00	3/29/2022 19:00	1126.0
3/29/2022 19:00	3/29/2022 20:00	1173.4
3/29/2022 20:00	3/29/2022 21:00	1184.5
3/29/2022 21:00	3/29/2022 22:00	1113.3
3/29/2022 22:00	3/29/2022 23:00	1090.9
3/29/2022 23:00	3/30/2022 0:00	1059.5
3/30/2022 0:00	3/30/2022 1:00	1061.6
3/30/2022 1:00	3/30/2022 2:00	1044.2
3/30/2022 2:00	3/30/2022 3:00	1033.2
3/30/2022 3:00	3/30/2022 4:00	1054.6
3/30/2022 4:00	3/30/2022 5:00	1104.5

Start Time	End Time	ANL_MW
3/30/2022 5:00	3/30/2022 6:00	1110.2
3/30/2022 6:00	3/30/2022 7:00	1242.2
3/30/2022 7:00	3/30/2022 8:00	1309.6
3/30/2022 8:00	3/30/2022 9:00	1338.6
3/30/2022 9:00	3/30/2022 10:00	1293.1
3/30/2022 10:00	3/30/2022 11:00	1299.0
3/30/2022 11:00	3/30/2022 12:00	1259.6
3/30/2022 12:00	3/30/2022 13:00	1244.3
3/30/2022 13:00	3/30/2022 14:00	1187.6
3/30/2022 14:00	3/30/2022 15:00	1135.2
3/30/2022 15:00	3/30/2022 16:00	1116.2
3/30/2022 16:00	3/30/2022 17:00	1114.8
3/30/2022 17:00	3/30/2022 18:00	1141.3
3/30/2022 18:00	3/30/2022 19:00	1173.3
3/30/2022 19:00	3/30/2022 20:00	1220.5
3/30/2022 20:00	3/30/2022 21:00	1240.1
3/30/2022 21:00	3/30/2022 22:00	1148.0
3/30/2022 22:00	3/30/2022 23:00	1066.0
3/30/2022 23:00	3/31/2022 0:00	1033.6
3/31/2022 0:00	3/31/2022 1:00	1034.9
3/31/2022 1:00	3/31/2022 2:00	1021.9
3/31/2022 2:00	3/31/2022 3:00	1019.6
3/31/2022 3:00	3/31/2022 4:00	1035.2
3/31/2022 4:00	3/31/2022 5:00	1070.6
3/31/2022 5:00	3/31/2022 6:00	1064.5
3/31/2022 6:00	3/31/2022 7:00	1205.8
3/31/2022 7:00	3/31/2022 8:00	1358.2
3/31/2022 8:00	3/31/2022 9:00	1417.3
3/31/2022 9:00	3/31/2022 10:00	1438.8
3/31/2022 10:00	3/31/2022 11:00	1445.2
3/31/2022 11:00	3/31/2022 12:00	1419.1
3/31/2022 12:00	3/31/2022 13:00	1349.4
3/31/2022 13:00	3/31/2022 14:00	1311.7
3/31/2022 14:00	3/31/2022 15:00	1271.4
3/31/2022 15:00	3/31/2022 16:00	1282.1
3/31/2022 16:00	3/31/2022 17:00	1340.3
3/31/2022 17:00	3/31/2022 18:00	1361.1
3/31/2022 18:00	3/31/2022 19:00	1314.8
3/31/2022 19:00	3/31/2022 20:00	1277.8
3/31/2022 20:00	3/31/2022 21:00	1231.6
3/31/2022 21:00	3/31/2022 22:00	1158.5
3/31/2022 22:00	3/31/2022 23:00	1051.5
3/31/2022 23:00	4/1/2022 0:00	1038.8
4/1/2022 0:00	4/1/2022 1:00	968.6
4/1/2022 1:00	4/1/2022 2:00	929.7
4/1/2022 2:00	4/1/2022 3:00	871.9
4/1/2022 3:00	4/1/2022 4:00	843.8
4/1/2022 4:00	4/1/2022 5:00	835.0
4/1/2022 5:00	4/1/2022 6:00	884.1
4/1/2022 6:00	4/1/2022 7:00	954.8
4/1/2022 7:00	4/1/2022 8:00	1038.8
4/1/2022 8:00	4/1/2022 9:00	996.9
4/1/2022 9:00	4/1/2022 10:00	995.6
4/1/2022 10:00	4/1/2022 11:00	1020.7
4/1/2022 11:00	4/1/2022 12:00	1048.8
4/1/2022 12:00	4/1/2022 13:00	1023.3
4/1/2022 13:00	4/1/2022 14:00	1096.1
4/1/2022 14:00	4/1/2022 15:00	1158.1
4/1/2022 15:00	4/1/2022 16:00	1199.9
4/1/2022 16:00	4/1/2022 17:00	1230.9
4/1/2022 17:00	4/1/2022 18:00	1182.4
4/1/2022 18:00	4/1/2022 19:00	1095.7
4/1/2022 19:00	4/1/2022 20:00	1061.2
4/1/2022 20:00	4/1/2022 21:00	1055.3
4/1/2022 21:00	4/1/2022 22:00	1009.3
4/1/2022 22:00	4/1/2022 23:00	991.4
4/1/2022 23:00	4/2/2022 0:00	983.7
4/2/2022 0:00	4/2/2022 1:00	948.9
4/2/2022 1:00	4/2/2022 2:00	936.6
4/2/2022 2:00	4/2/2022 3:00	889.8

Start Time	End Time	ANL_MW
4/2/2022 3:00	4/2/2022 4:00	858.5
4/2/2022 4:00	4/2/2022 5:00	848.9
4/2/2022 5:00	4/2/2022 6:00	839.1
4/2/2022 6:00	4/2/2022 7:00	824.1
4/2/2022 7:00	4/2/2022 8:00	880.9
4/2/2022 8:00	4/2/2022 9:00	903.2
4/2/2022 9:00	4/2/2022 10:00	934.5
4/2/2022 10:00	4/2/2022 11:00	948.6
4/2/2022 11:00	4/2/2022 12:00	956.5
4/2/2022 12:00	4/2/2022 13:00	953.5
4/2/2022 13:00	4/2/2022 14:00	925.0
4/2/2022 14:00	4/2/2022 15:00	907.6
4/2/2022 15:00	4/2/2022 16:00	915.7
4/2/2022 16:00	4/2/2022 17:00	953.7
4/2/2022 17:00	4/2/2022 18:00	972.6
4/2/2022 18:00	4/2/2022 19:00	980.8
4/2/2022 19:00	4/2/2022 20:00	976.5
4/2/2022 20:00	4/2/2022 21:00	1011.2
4/2/2022 21:00	4/2/2022 22:00	944.4
4/2/2022 22:00	4/2/2022 23:00	892.8
4/2/2022 23:00	4/3/2022 0:00	907.8
4/3/2022 0:00	4/3/2022 1:00	866.2
4/3/2022 1:00	4/3/2022 2:00	838.7
4/3/2022 2:00	4/3/2022 3:00	798.2
4/3/2022 3:00	4/3/2022 4:00	833.9
4/3/2022 4:00	4/3/2022 5:00	894.0
4/3/2022 5:00	4/3/2022 6:00	968.7
4/3/2022 6:00	4/3/2022 7:00	1060.2
4/3/2022 7:00	4/3/2022 8:00	1157.3
4/3/2022 8:00	4/3/2022 9:00	1227.3
4/3/2022 9:00	4/3/2022 10:00	1245.6
4/3/2022 10:00	4/3/2022 11:00	1249.6
4/3/2022 11:00	4/3/2022 12:00	1235.7
4/3/2022 12:00	4/3/2022 13:00	1237.4
4/3/2022 13:00	4/3/2022 14:00	1197.4
4/3/2022 14:00	4/3/2022 15:00	1178.8
4/3/2022 15:00	4/3/2022 16:00	1185.0
4/3/2022 16:00	4/3/2022 17:00	1236.7
4/3/2022 17:00	4/3/2022 18:00	1276.7
4/3/2022 18:00	4/3/2022 19:00	1288.8
4/3/2022 19:00	4/3/2022 20:00	1331.5
4/3/2022 20:00	4/3/2022 21:00	1368.3
4/3/2022 21:00	4/3/2022 22:00	1330.0
4/3/2022 22:00	4/3/2022 23:00	1281.9
4/3/2022 23:00	4/4/2022 0:00	1279.8
4/4/2022 0:00	4/4/2022 1:00	1227.7
4/4/2022 1:00	4/4/2022 2:00	1195.9
4/4/2022 2:00	4/4/2022 3:00	1153.5
4/4/2022 3:00	4/4/2022 4:00	1174.2
4/4/2022 4:00	4/4/2022 5:00	1119.4
4/4/2022 5:00	4/4/2022 6:00	1132.8
4/4/2022 6:00	4/4/2022 7:00	1156.6
4/4/2022 7:00	4/4/2022 8:00	1241.0
4/4/2022 8:00	4/4/2022 9:00	1266.0
4/4/2022 9:00	4/4/2022 10:00	1238.5
4/4/2022 10:00	4/4/2022 11:00	1206.2
4/4/2022 11:00	4/4/2022 12:00	1213.0
4/4/2022 12:00	4/4/2022 13:00	1209.1
4/4/2022 13:00	4/4/2022 14:00	1194.5
4/4/2022 14:00	4/4/2022 15:00	1222.7
4/4/2022 15:00	4/4/2022 16:00	1226.5
4/4/2022 16:00	4/4/2022 17:00	1232.4
4/4/2022 17:00	4/4/2022 18:00	1245.1
4/4/2022 18:00	4/4/2022 19:00	1236.0
4/4/2022 19:00	4/4/2022 20:00	1230.7
4/4/2022 20:00	4/4/2022 21:00	1234.8
4/4/2022 21:00	4/4/2022 22:00	1178.4
4/4/2022 22:00	4/4/2022 23:00	1090.3
4/4/2022 23:00	4/5/2022 0:00	1033.1
4/5/2022 0:00	4/5/2022 1:00	1009.6

Start Time	End Time	ANL_MW
4/5/2022 1:00	4/5/2022 2:00	986.7
4/5/2022 2:00	4/5/2022 3:00	972.0
4/5/2022 3:00	4/5/2022 4:00	999.2
4/5/2022 4:00	4/5/2022 5:00	994.7
4/5/2022 5:00	4/5/2022 6:00	1037.3
4/5/2022 6:00	4/5/2022 7:00	1152.3
4/5/2022 7:00	4/5/2022 8:00	1236.5
4/5/2022 8:00	4/5/2022 9:00	1260.2
4/5/2022 9:00	4/5/2022 10:00	1273.8
4/5/2022 10:00	4/5/2022 11:00	1250.9
4/5/2022 11:00	4/5/2022 12:00	1198.8
4/5/2022 12:00	4/5/2022 13:00	1182.9
4/5/2022 13:00	4/5/2022 14:00	1134.8
4/5/2022 14:00	4/5/2022 15:00	1102.7
4/5/2022 15:00	4/5/2022 16:00	1105.1
4/5/2022 16:00	4/5/2022 17:00	1140.7
4/5/2022 17:00	4/5/2022 18:00	1155.3
4/5/2022 18:00	4/5/2022 19:00	1178.8
4/5/2022 19:00	4/5/2022 20:00	1227.3
4/5/2022 20:00	4/5/2022 21:00	1271.4
4/5/2022 21:00	4/5/2022 22:00	1239.0
4/5/2022 22:00	4/5/2022 23:00	1165.6
4/5/2022 23:00	4/6/2022 0:00	1142.2
4/6/2022 0:00	4/6/2022 1:00	1149.4
4/6/2022 1:00	4/6/2022 2:00	1133.4
4/6/2022 2:00	4/6/2022 3:00	1097.8
4/6/2022 3:00	4/6/2022 4:00	1106.2
4/6/2022 4:00	4/6/2022 5:00	1182.3
4/6/2022 5:00	4/6/2022 6:00	1245.5
4/6/2022 6:00	4/6/2022 7:00	1387.2
4/6/2022 7:00	4/6/2022 8:00	1480.6
4/6/2022 8:00	4/6/2022 9:00	1458.1
4/6/2022 9:00	4/6/2022 10:00	1397.6
4/6/2022 10:00	4/6/2022 11:00	1326.6
4/6/2022 11:00	4/6/2022 12:00	1265.5
4/6/2022 12:00	4/6/2022 13:00	1230.3
4/6/2022 13:00	4/6/2022 14:00	1182.1
4/6/2022 14:00	4/6/2022 15:00	1195.3
4/6/2022 15:00	4/6/2022 16:00	1193.4
4/6/2022 16:00	4/6/2022 17:00	1228.4
4/6/2022 17:00	4/6/2022 18:00	1270.8
4/6/2022 18:00	4/6/2022 19:00	1301.7
4/6/2022 19:00	4/6/2022 20:00	1340.3
4/6/2022 20:00	4/6/2022 21:00	1388.8
4/6/2022 21:00	4/6/2022 22:00	1348.1
4/6/2022 22:00	4/6/2022 23:00	1275.5
4/6/2022 23:00	4/7/2022 0:00	1228.3
4/7/2022 0:00	4/7/2022 1:00	1209.9
4/7/2022 1:00	4/7/2022 2:00	1192.0
4/7/2022 2:00	4/7/2022 3:00	1185.9
4/7/2022 3:00	4/7/2022 4:00	1164.4
4/7/2022 4:00	4/7/2022 5:00	1150.4
4/7/2022 5:00	4/7/2022 6:00	1146.3
4/7/2022 6:00	4/7/2022 7:00	1260.8
4/7/2022 7:00	4/7/2022 8:00	1379.2
4/7/2022 8:00	4/7/2022 9:00	1390.8
4/7/2022 9:00	4/7/2022 10:00	1354.6
4/7/2022 10:00	4/7/2022 11:00	1292.6
4/7/2022 11:00	4/7/2022 12:00	1243.4
4/7/2022 12:00	4/7/2022 13:00	1184.9
4/7/2022 13:00	4/7/2022 14:00	1143.7
4/7/2022 14:00	4/7/2022 15:00	1107.8
4/7/2022 15:00	4/7/2022 16:00	1098.5
4/7/2022 16:00	4/7/2022 17:00	1101.3
4/7/2022 17:00	4/7/2022 18:00	1113.1
4/7/2022 18:00	4/7/2022 19:00	1116.8
4/7/2022 19:00	4/7/2022 20:00	1197.1
4/7/2022 20:00	4/7/2022 21:00	1221.8
4/7/2022 21:00	4/7/2022 22:00	1198.4
4/7/2022 22:00	4/7/2022 23:00	1157.9

Start Time	End Time	ANL_MW
4/7/2022 23:00	4/8/2022 0:00	1124.8
4/8/2022 0:00	4/8/2022 1:00	1093.6
4/8/2022 1:00	4/8/2022 2:00	1050.5
4/8/2022 2:00	4/8/2022 3:00	1000.8
4/8/2022 3:00	4/8/2022 4:00	983.1
4/8/2022 4:00	4/8/2022 5:00	1000.6
4/8/2022 5:00	4/8/2022 6:00	995.6
4/8/2022 6:00	4/8/2022 7:00	1047.6
4/8/2022 7:00	4/8/2022 8:00	1098.3
4/8/2022 8:00	4/8/2022 9:00	1123.1
4/8/2022 9:00	4/8/2022 10:00	1066.2
4/8/2022 10:00	4/8/2022 11:00	1010.2
4/8/2022 11:00	4/8/2022 12:00	981.1
4/8/2022 12:00	4/8/2022 13:00	972.6
4/8/2022 13:00	4/8/2022 14:00	952.8
4/8/2022 14:00	4/8/2022 15:00	890.0
4/8/2022 15:00	4/8/2022 16:00	937.1
4/8/2022 16:00	4/8/2022 17:00	965.8
4/8/2022 17:00	4/8/2022 18:00	932.7
4/8/2022 18:00	4/8/2022 19:00	948.6
4/8/2022 19:00	4/8/2022 20:00	952.3
4/8/2022 20:00	4/8/2022 21:00	953.5
4/8/2022 21:00	4/8/2022 22:00	939.8
4/8/2022 22:00	4/8/2022 23:00	971.7
4/8/2022 23:00	4/9/2022 0:00	971.8
4/9/2022 0:00	4/9/2022 1:00	937.6
4/9/2022 1:00	4/9/2022 2:00	918.8
4/9/2022 2:00	4/9/2022 3:00	886.3
4/9/2022 3:00	4/9/2022 4:00	904.8
4/9/2022 4:00	4/9/2022 5:00	928.0
4/9/2022 5:00	4/9/2022 6:00	964.2
4/9/2022 6:00	4/9/2022 7:00	1070.5
4/9/2022 7:00	4/9/2022 8:00	1130.7
4/9/2022 8:00	4/9/2022 9:00	1212.2
4/9/2022 9:00	4/9/2022 10:00	1224.0
4/9/2022 10:00	4/9/2022 11:00	1228.1
4/9/2022 11:00	4/9/2022 12:00	1234.1
4/9/2022 12:00	4/9/2022 13:00	1237.8
4/9/2022 13:00	4/9/2022 14:00	1199.3
4/9/2022 14:00	4/9/2022 15:00	1169.2
4/9/2022 15:00	4/9/2022 16:00	1150.2
4/9/2022 16:00	4/9/2022 17:00	1186.9
4/9/2022 17:00	4/9/2022 18:00	1237.4
4/9/2022 18:00	4/9/2022 19:00	1223.7
4/9/2022 19:00	4/9/2022 20:00	1215.2
4/9/2022 20:00	4/9/2022 21:00	1216.4
4/9/2022 21:00	4/9/2022 22:00	1200.7
4/9/2022 22:00	4/9/2022 23:00	1134.6
4/9/2022 23:00	4/10/2022 0:00	1070.7
4/10/2022 0:00	4/10/2022 1:00	1028.9
4/10/2022 1:00	4/10/2022 2:00	1011.5
4/10/2022 2:00	4/10/2022 3:00	1009.1
4/10/2022 3:00	4/10/2022 4:00	972.4
4/10/2022 4:00	4/10/2022 5:00	946.1
4/10/2022 5:00	4/10/2022 6:00	958.7
4/10/2022 6:00	4/10/2022 7:00	944.7
4/10/2022 7:00	4/10/2022 8:00	1003.3
4/10/2022 8:00	4/10/2022 9:00	1124.1
4/10/2022 9:00	4/10/2022 10:00	1186.7
4/10/2022 10:00	4/10/2022 11:00	1287.4
4/10/2022 11:00	4/10/2022 12:00	1344.2
4/10/2022 12:00	4/10/2022 13:00	1358.7
4/10/2022 13:00	4/10/2022 14:00	1337.8
4/10/2022 14:00	4/10/2022 15:00	1306.7
4/10/2022 15:00	4/10/2022 16:00	1288.3
4/10/2022 16:00	4/10/2022 17:00	1288.6
4/10/2022 17:00	4/10/2022 18:00	1266.1
4/10/2022 18:00	4/10/2022 19:00	1230.2
4/10/2022 19:00	4/10/2022 20:00	1242.1
4/10/2022 20:00	4/10/2022 21:00	1228.1

Start Time	End Time	ANL_MW
4/10/2022 21:00	4/10/2022 22:00	1162.2
4/10/2022 22:00	4/10/2022 23:00	1071.6
4/10/2022 23:00	4/11/2022 0:00	974.8
4/11/2022 0:00	4/11/2022 1:00	974.4
4/11/2022 1:00	4/11/2022 2:00	947.5
4/11/2022 2:00	4/11/2022 3:00	936.4
4/11/2022 3:00	4/11/2022 4:00	955.9
4/11/2022 4:00	4/11/2022 5:00	983.4
4/11/2022 5:00	4/11/2022 6:00	1004.3
4/11/2022 6:00	4/11/2022 7:00	1063.4
4/11/2022 7:00	4/11/2022 8:00	1204.1
4/11/2022 8:00	4/11/2022 9:00	1230.0
4/11/2022 9:00	4/11/2022 10:00	1158.8
4/11/2022 10:00	4/11/2022 11:00	1082.0
4/11/2022 11:00	4/11/2022 12:00	1006.4
4/11/2022 12:00	4/11/2022 13:00	957.9
4/11/2022 13:00	4/11/2022 14:00	883.3
4/11/2022 14:00	4/11/2022 15:00	840.4
4/11/2022 15:00	4/11/2022 16:00	841.5
4/11/2022 16:00	4/11/2022 17:00	904.0
4/11/2022 17:00	4/11/2022 18:00	969.7
4/11/2022 18:00	4/11/2022 19:00	1053.2
4/11/2022 19:00	4/11/2022 20:00	1132.5
4/11/2022 20:00	4/11/2022 21:00	1163.5
4/11/2022 21:00	4/11/2022 22:00	1105.7
4/11/2022 22:00	4/11/2022 23:00	1111.3
4/11/2022 23:00	4/12/2022 0:00	1108.2
4/12/2022 0:00	4/12/2022 1:00	1142.4
4/12/2022 1:00	4/12/2022 2:00	1162.5
4/12/2022 2:00	4/12/2022 3:00	1148.6
4/12/2022 3:00	4/12/2022 4:00	1146.8
4/12/2022 4:00	4/12/2022 5:00	1106.4
4/12/2022 5:00	4/12/2022 6:00	1175.1
4/12/2022 6:00	4/12/2022 7:00	1312.8
4/12/2022 7:00	4/12/2022 8:00	1350.8
4/12/2022 8:00	4/12/2022 9:00	1326.5
4/12/2022 9:00	4/12/2022 10:00	1281.5
4/12/2022 10:00	4/12/2022 11:00	1238.0
4/12/2022 11:00	4/12/2022 12:00	1250.0
4/12/2022 12:00	4/12/2022 13:00	1235.9
4/12/2022 13:00	4/12/2022 14:00	1219.2
4/12/2022 14:00	4/12/2022 15:00	1169.5
4/12/2022 15:00	4/12/2022 16:00	1173.4
4/12/2022 16:00	4/12/2022 17:00	1250.1
4/12/2022 17:00	4/12/2022 18:00	1292.7
4/12/2022 18:00	4/12/2022 19:00	1291.9
4/12/2022 19:00	4/12/2022 20:00	1287.2
4/12/2022 20:00	4/12/2022 21:00	1292.5
4/12/2022 21:00	4/12/2022 22:00	1201.0
4/12/2022 22:00	4/12/2022 23:00	1088.4
4/12/2022 23:00	4/13/2022 0:00	1025.0
4/13/2022 0:00	4/13/2022 1:00	984.1
4/13/2022 1:00	4/13/2022 2:00	911.0
4/13/2022 2:00	4/13/2022 3:00	893.3
4/13/2022 3:00	4/13/2022 4:00	867.7
4/13/2022 4:00	4/13/2022 5:00	894.0
4/13/2022 5:00	4/13/2022 6:00	912.1
4/13/2022 6:00	4/13/2022 7:00	1016.3
4/13/2022 7:00	4/13/2022 8:00	1107.3
4/13/2022 8:00	4/13/2022 9:00	1131.5
4/13/2022 9:00	4/13/2022 10:00	1115.9
4/13/2022 10:00	4/13/2022 11:00	1069.0
4/13/2022 11:00	4/13/2022 12:00	1020.0
4/13/2022 12:00	4/13/2022 13:00	970.2
4/13/2022 13:00	4/13/2022 14:00	912.9
4/13/2022 14:00	4/13/2022 15:00	877.7
4/13/2022 15:00	4/13/2022 16:00	909.8
4/13/2022 16:00	4/13/2022 17:00	984.9
4/13/2022 17:00	4/13/2022 18:00	1076.7
4/13/2022 18:00	4/13/2022 19:00	1123.1

Start Time	End Time	ANL_MW
4/13/2022 19:00	4/13/2022 20:00	1144.3
4/13/2022 20:00	4/13/2022 21:00	1171.6
4/13/2022 21:00	4/13/2022 22:00	1118.8
4/13/2022 22:00	4/13/2022 23:00	1041.2
4/13/2022 23:00	4/14/2022 0:00	987.0
4/14/2022 0:00	4/14/2022 1:00	954.7
4/14/2022 1:00	4/14/2022 2:00	923.2
4/14/2022 2:00	4/14/2022 3:00	914.6
4/14/2022 3:00	4/14/2022 4:00	917.3
4/14/2022 4:00	4/14/2022 5:00	950.0
4/14/2022 5:00	4/14/2022 6:00	996.3
4/14/2022 6:00	4/14/2022 7:00	1109.2
4/14/2022 7:00	4/14/2022 8:00	1205.0
4/14/2022 8:00	4/14/2022 9:00	1237.4
4/14/2022 9:00	4/14/2022 10:00	1252.5
4/14/2022 10:00	4/14/2022 11:00	1210.5
4/14/2022 11:00	4/14/2022 12:00	1222.8
4/14/2022 12:00	4/14/2022 13:00	1219.8
4/14/2022 13:00	4/14/2022 14:00	1187.1
4/14/2022 14:00	4/14/2022 15:00	1168.1
4/14/2022 15:00	4/14/2022 16:00	1152.0
4/14/2022 16:00	4/14/2022 17:00	1157.9
4/14/2022 17:00	4/14/2022 18:00	1192.3
4/14/2022 18:00	4/14/2022 19:00	1205.9
4/14/2022 19:00	4/14/2022 20:00	1192.1
4/14/2022 20:00	4/14/2022 21:00	1159.6
4/14/2022 21:00	4/14/2022 22:00	1087.1
4/14/2022 22:00	4/14/2022 23:00	953.2
4/14/2022 23:00	4/15/2022 0:00	926.9
4/15/2022 0:00	4/15/2022 1:00	895.0
4/15/2022 1:00	4/15/2022 2:00	853.6
4/15/2022 2:00	4/15/2022 3:00	826.9
4/15/2022 3:00	4/15/2022 4:00	842.1
4/15/2022 4:00	4/15/2022 5:00	837.4
4/15/2022 5:00	4/15/2022 6:00	860.7
4/15/2022 6:00	4/15/2022 7:00	899.6
4/15/2022 7:00	4/15/2022 8:00	946.8
4/15/2022 8:00	4/15/2022 9:00	1002.4
4/15/2022 9:00	4/15/2022 10:00	1064.7
4/15/2022 10:00	4/15/2022 11:00	1078.6
4/15/2022 11:00	4/15/2022 12:00	1081.2
4/15/2022 12:00	4/15/2022 13:00	1157.6
4/15/2022 13:00	4/15/2022 14:00	1188.8
4/15/2022 14:00	4/15/2022 15:00	1199.2
4/15/2022 15:00	4/15/2022 16:00	1197.5
4/15/2022 16:00	4/15/2022 17:00	1266.8
4/15/2022 17:00	4/15/2022 18:00	1310.9
4/15/2022 18:00	4/15/2022 19:00	1266.4
4/15/2022 19:00	4/15/2022 20:00	1244.3
4/15/2022 20:00	4/15/2022 21:00	1229.9
4/15/2022 21:00	4/15/2022 22:00	1138.8
4/15/2022 22:00	4/15/2022 23:00	1036.5
4/15/2022 23:00	4/16/2022 0:00	963.1
4/16/2022 0:00	4/16/2022 1:00	888.3
4/16/2022 1:00	4/16/2022 2:00	816.5
4/16/2022 2:00	4/16/2022 3:00	784.8
4/16/2022 3:00	4/16/2022 4:00	810.3
4/16/2022 4:00	4/16/2022 5:00	815.2
4/16/2022 5:00	4/16/2022 6:00	832.3
4/16/2022 6:00	4/16/2022 7:00	851.1
4/16/2022 7:00	4/16/2022 8:00	873.5
4/16/2022 8:00	4/16/2022 9:00	837.6
4/16/2022 9:00	4/16/2022 10:00	802.5
4/16/2022 10:00	4/16/2022 11:00	773.7
4/16/2022 11:00	4/16/2022 12:00	734.8
4/16/2022 12:00	4/16/2022 13:00	710.4
4/16/2022 13:00	4/16/2022 14:00	687.0
4/16/2022 14:00	4/16/2022 15:00	706.6
4/16/2022 15:00	4/16/2022 16:00	715.0
4/16/2022 16:00	4/16/2022 17:00	735.4

Start Time	End Time	ANL_MW
4/16/2022 17:00	4/16/2022 18:00	765.7
4/16/2022 18:00	4/16/2022 19:00	757.4
4/16/2022 19:00	4/16/2022 20:00	785.5
4/16/2022 20:00	4/16/2022 21:00	789.2
4/16/2022 21:00	4/16/2022 22:00	764.9
4/16/2022 22:00	4/16/2022 23:00	754.5
4/16/2022 23:00	4/17/2022 0:00	788.6
4/17/2022 0:00	4/17/2022 1:00	763.8
4/17/2022 1:00	4/17/2022 2:00	761.4
4/17/2022 2:00	4/17/2022 3:00	787.7
4/17/2022 3:00	4/17/2022 4:00	781.0
4/17/2022 4:00	4/17/2022 5:00	790.0
4/17/2022 5:00	4/17/2022 6:00	850.8
4/17/2022 6:00	4/17/2022 7:00	862.6
4/17/2022 7:00	4/17/2022 8:00	942.0
4/17/2022 8:00	4/17/2022 9:00	991.9
4/17/2022 9:00	4/17/2022 10:00	1015.0
4/17/2022 10:00	4/17/2022 11:00	1032.4
4/17/2022 11:00	4/17/2022 12:00	948.4
4/17/2022 12:00	4/17/2022 13:00	935.7
4/17/2022 13:00	4/17/2022 14:00	870.4
4/17/2022 14:00	4/17/2022 15:00	871.9
4/17/2022 15:00	4/17/2022 16:00	864.3
4/17/2022 16:00	4/17/2022 17:00	869.8
4/17/2022 17:00	4/17/2022 18:00	892.3
4/17/2022 18:00	4/17/2022 19:00	945.5
4/17/2022 19:00	4/17/2022 20:00	1030.6
4/17/2022 20:00	4/17/2022 21:00	1063.5
4/17/2022 21:00	4/17/2022 22:00	984.5
4/17/2022 22:00	4/17/2022 23:00	934.4
4/17/2022 23:00	4/18/2022 0:00	861.2
4/18/2022 0:00	4/18/2022 1:00	772.0
4/18/2022 1:00	4/18/2022 2:00	785.7
4/18/2022 2:00	4/18/2022 3:00	783.5
4/18/2022 3:00	4/18/2022 4:00	798.8
4/18/2022 4:00	4/18/2022 5:00	825.1
4/18/2022 5:00	4/18/2022 6:00	866.3
4/18/2022 6:00	4/18/2022 7:00	861.8
4/18/2022 7:00	4/18/2022 8:00	902.0
4/18/2022 8:00	4/18/2022 9:00	920.9
4/18/2022 9:00	4/18/2022 10:00	964.0
4/18/2022 10:00	4/18/2022 11:00	983.1
4/18/2022 11:00	4/18/2022 12:00	976.4
4/18/2022 12:00	4/18/2022 13:00	1009.1
4/18/2022 13:00	4/18/2022 14:00	1001.5
4/18/2022 14:00	4/18/2022 15:00	1024.7
4/18/2022 15:00	4/18/2022 16:00	1049.4
4/18/2022 16:00	4/18/2022 17:00	1105.7
4/18/2022 17:00	4/18/2022 18:00	1173.6
4/18/2022 18:00	4/18/2022 19:00	1192.2
4/18/2022 19:00	4/18/2022 20:00	1218.7
4/18/2022 20:00	4/18/2022 21:00	1292.1
4/18/2022 21:00	4/18/2022 22:00	1275.7
4/18/2022 22:00	4/18/2022 23:00	1189.8
4/18/2022 23:00	4/19/2022 0:00	1094.9
4/19/2022 0:00	4/19/2022 1:00	1012.1
4/19/2022 1:00	4/19/2022 2:00	920.5
4/19/2022 2:00	4/19/2022 3:00	871.9
4/19/2022 3:00	4/19/2022 4:00	853.3
4/19/2022 4:00	4/19/2022 5:00	908.7
4/19/2022 5:00	4/19/2022 6:00	914.6
4/19/2022 6:00	4/19/2022 7:00	959.1
4/19/2022 7:00	4/19/2022 8:00	1038.0
4/19/2022 8:00	4/19/2022 9:00	1050.7
4/19/2022 9:00	4/19/2022 10:00	1023.6
4/19/2022 10:00	4/19/2022 11:00	1054.2
4/19/2022 11:00	4/19/2022 12:00	1048.2
4/19/2022 12:00	4/19/2022 13:00	1060.6
4/19/2022 13:00	4/19/2022 14:00	1070.2
4/19/2022 14:00	4/19/2022 15:00	1071.0

Start Time	End Time	ANL_MW
4/19/2022 15:00	4/19/2022 16:00	1094.5
4/19/2022 16:00	4/19/2022 17:00	1126.5
4/19/2022 17:00	4/19/2022 18:00	1175.2
4/19/2022 18:00	4/19/2022 19:00	1156.4
4/19/2022 19:00	4/19/2022 20:00	1169.4
4/19/2022 20:00	4/19/2022 21:00	1164.0
4/19/2022 21:00	4/19/2022 22:00	1068.4
4/19/2022 22:00	4/19/2022 23:00	928.3
4/19/2022 23:00	4/20/2022 0:00	872.7
4/20/2022 0:00	4/20/2022 1:00	846.6
4/20/2022 1:00	4/20/2022 2:00	788.9
4/20/2022 2:00	4/20/2022 3:00	772.7
4/20/2022 3:00	4/20/2022 4:00	784.8
4/20/2022 4:00	4/20/2022 5:00	818.4
4/20/2022 5:00	4/20/2022 6:00	878.1
4/20/2022 6:00	4/20/2022 7:00	977.3
4/20/2022 7:00	4/20/2022 8:00	1032.6
4/20/2022 8:00	4/20/2022 9:00	1031.6
4/20/2022 9:00	4/20/2022 10:00	972.8
4/20/2022 10:00	4/20/2022 11:00	936.6
4/20/2022 11:00	4/20/2022 12:00	893.9
4/20/2022 12:00	4/20/2022 13:00	854.1
4/20/2022 13:00	4/20/2022 14:00	819.7
4/20/2022 14:00	4/20/2022 15:00	776.7
4/20/2022 15:00	4/20/2022 16:00	759.5
4/20/2022 16:00	4/20/2022 17:00	840.4
4/20/2022 17:00	4/20/2022 18:00	878.2
4/20/2022 18:00	4/20/2022 19:00	884.8
4/20/2022 19:00	4/20/2022 20:00	914.0
4/20/2022 20:00	4/20/2022 21:00	1007.0
4/20/2022 21:00	4/20/2022 22:00	991.5
4/20/2022 22:00	4/20/2022 23:00	900.3
4/20/2022 23:00	4/21/2022 0:00	872.3
4/21/2022 0:00	4/21/2022 1:00	883.8
4/21/2022 1:00	4/21/2022 2:00	837.7
4/21/2022 2:00	4/21/2022 3:00	830.6
4/21/2022 3:00	4/21/2022 4:00	866.5
4/21/2022 4:00	4/21/2022 5:00	896.2
4/21/2022 5:00	4/21/2022 6:00	1005.2
4/21/2022 6:00	4/21/2022 7:00	1178.3
4/21/2022 7:00	4/21/2022 8:00	1277.4
4/21/2022 8:00	4/21/2022 9:00	1291.1
4/21/2022 9:00	4/21/2022 10:00	1269.2
4/21/2022 10:00	4/21/2022 11:00	1253.4
4/21/2022 11:00	4/21/2022 12:00	1244.4
4/21/2022 12:00	4/21/2022 13:00	1209.7
4/21/2022 13:00	4/21/2022 14:00	1166.3
4/21/2022 14:00	4/21/2022 15:00	1118.9
4/21/2022 15:00	4/21/2022 16:00	1073.9
4/21/2022 16:00	4/21/2022 17:00	1077.4
4/21/2022 17:00	4/21/2022 18:00	1072.9
4/21/2022 18:00	4/21/2022 19:00	1009.9
4/21/2022 19:00	4/21/2022 20:00	993.0
4/21/2022 20:00	4/21/2022 21:00	1022.0
4/21/2022 21:00	4/21/2022 22:00	1064.5
4/21/2022 22:00	4/21/2022 23:00	1010.9
4/21/2022 23:00	4/22/2022 0:00	934.5
4/22/2022 0:00	4/22/2022 1:00	925.2
4/22/2022 1:00	4/22/2022 2:00	840.0
4/22/2022 2:00	4/22/2022 3:00	789.4
4/22/2022 3:00	4/22/2022 4:00	802.0
4/22/2022 4:00	4/22/2022 5:00	812.5
4/22/2022 5:00	4/22/2022 6:00	820.9
4/22/2022 6:00	4/22/2022 7:00	924.5
4/22/2022 7:00	4/22/2022 8:00	1042.7
4/22/2022 8:00	4/22/2022 9:00	1110.3
4/22/2022 9:00	4/22/2022 10:00	1064.3
4/22/2022 10:00	4/22/2022 11:00	1083.1
4/22/2022 11:00	4/22/2022 12:00	1121.5
4/22/2022 12:00	4/22/2022 13:00	1086.3

Start Time	End Time	ANL_MW
4/22/2022 13:00	4/22/2022 14:00	1061.9
4/22/2022 14:00	4/22/2022 15:00	1032.6
4/22/2022 15:00	4/22/2022 16:00	1024.1
4/22/2022 16:00	4/22/2022 17:00	1089.8
4/22/2022 17:00	4/22/2022 18:00	1149.5
4/22/2022 18:00	4/22/2022 19:00	1107.3
4/22/2022 19:00	4/22/2022 20:00	1058.3
4/22/2022 20:00	4/22/2022 21:00	1028.3
4/22/2022 21:00	4/22/2022 22:00	1066.3
4/22/2022 22:00	4/22/2022 23:00	1001.6
4/22/2022 23:00	4/23/2022 0:00	962.3
4/23/2022 0:00	4/23/2022 1:00	902.9
4/23/2022 1:00	4/23/2022 2:00	821.9
4/23/2022 2:00	4/23/2022 3:00	779.5
4/23/2022 3:00	4/23/2022 4:00	778.2
4/23/2022 4:00	4/23/2022 5:00	817.6
4/23/2022 5:00	4/23/2022 6:00	847.6
4/23/2022 6:00	4/23/2022 7:00	908.0
4/23/2022 7:00	4/23/2022 8:00	976.6
4/23/2022 8:00	4/23/2022 9:00	922.0
4/23/2022 9:00	4/23/2022 10:00	952.3
4/23/2022 10:00	4/23/2022 11:00	1005.7
4/23/2022 11:00	4/23/2022 12:00	1014.9
4/23/2022 12:00	4/23/2022 13:00	1010.9
4/23/2022 13:00	4/23/2022 14:00	969.8
4/23/2022 14:00	4/23/2022 15:00	936.8
4/23/2022 15:00	4/23/2022 16:00	902.6
4/23/2022 16:00	4/23/2022 17:00	917.3
4/23/2022 17:00	4/23/2022 18:00	949.0
4/23/2022 18:00	4/23/2022 19:00	957.2
4/23/2022 19:00	4/23/2022 20:00	998.3
4/23/2022 20:00	4/23/2022 21:00	1063.3
4/23/2022 21:00	4/23/2022 22:00	1037.1
4/23/2022 22:00	4/23/2022 23:00	995.5
4/23/2022 23:00	4/24/2022 0:00	961.6
4/24/2022 0:00	4/24/2022 1:00	955.1
4/24/2022 1:00	4/24/2022 2:00	900.2
4/24/2022 2:00	4/24/2022 3:00	851.5
4/24/2022 3:00	4/24/2022 4:00	847.1
4/24/2022 4:00	4/24/2022 5:00	852.3
4/24/2022 5:00	4/24/2022 6:00	867.5
4/24/2022 6:00	4/24/2022 7:00	890.3
4/24/2022 7:00	4/24/2022 8:00	941.9
4/24/2022 8:00	4/24/2022 9:00	917.0
4/24/2022 9:00	4/24/2022 10:00	929.7
4/24/2022 10:00	4/24/2022 11:00	929.8
4/24/2022 11:00	4/24/2022 12:00	912.3
4/24/2022 12:00	4/24/2022 13:00	954.4
4/24/2022 13:00	4/24/2022 14:00	928.4
4/24/2022 14:00	4/24/2022 15:00	927.1
4/24/2022 15:00	4/24/2022 16:00	954.2
4/24/2022 16:00	4/24/2022 17:00	1020.7
4/24/2022 17:00	4/24/2022 18:00	1045.3
4/24/2022 18:00	4/24/2022 19:00	1048.0
4/24/2022 19:00	4/24/2022 20:00	1064.9
4/24/2022 20:00	4/24/2022 21:00	1052.2
4/24/2022 21:00	4/24/2022 22:00	1019.7
4/24/2022 22:00	4/24/2022 23:00	926.4
4/24/2022 23:00	4/25/2022 0:00	856.5
4/25/2022 0:00	4/25/2022 1:00	840.8
4/25/2022 1:00	4/25/2022 2:00	845.0
4/25/2022 2:00	4/25/2022 3:00	846.9
4/25/2022 3:00	4/25/2022 4:00	881.9
4/25/2022 4:00	4/25/2022 5:00	914.1
4/25/2022 5:00	4/25/2022 6:00	942.6
4/25/2022 6:00	4/25/2022 7:00	1087.0
4/25/2022 7:00	4/25/2022 8:00	1213.4
4/25/2022 8:00	4/25/2022 9:00	1239.0
4/25/2022 9:00	4/25/2022 10:00	1215.3
4/25/2022 10:00	4/25/2022 11:00	1198.0

Start Time	End Time	ANL_MW
4/25/2022 11:00	4/25/2022 12:00	1179.5
4/25/2022 12:00	4/25/2022 13:00	1186.6
4/25/2022 13:00	4/25/2022 14:00	1158.0
4/25/2022 14:00	4/25/2022 15:00	1123.9
4/25/2022 15:00	4/25/2022 16:00	1123.5
4/25/2022 16:00	4/25/2022 17:00	1156.7
4/25/2022 17:00	4/25/2022 18:00	1183.2
4/25/2022 18:00	4/25/2022 19:00	1162.2
4/25/2022 19:00	4/25/2022 20:00	1165.5
4/25/2022 20:00	4/25/2022 21:00	1196.2
4/25/2022 21:00	4/25/2022 22:00	1169.3
4/25/2022 22:00	4/25/2022 23:00	1074.2
4/25/2022 23:00	4/26/2022 0:00	1047.7
4/26/2022 0:00	4/26/2022 1:00	1034.7
4/26/2022 1:00	4/26/2022 2:00	1016.8
4/26/2022 2:00	4/26/2022 3:00	997.5
4/26/2022 3:00	4/26/2022 4:00	1000.0
4/26/2022 4:00	4/26/2022 5:00	992.2
4/26/2022 5:00	4/26/2022 6:00	1048.7
4/26/2022 6:00	4/26/2022 7:00	1057.2
4/26/2022 7:00	4/26/2022 8:00	1134.6
4/26/2022 8:00	4/26/2022 9:00	1143.2
4/26/2022 9:00	4/26/2022 10:00	1127.1
4/26/2022 10:00	4/26/2022 11:00	1078.7
4/26/2022 11:00	4/26/2022 12:00	1064.8
4/26/2022 12:00	4/26/2022 13:00	1105.8
4/26/2022 13:00	4/26/2022 14:00	1055.9
4/26/2022 14:00	4/26/2022 15:00	1005.4
4/26/2022 15:00	4/26/2022 16:00	971.8
4/26/2022 16:00	4/26/2022 17:00	996.4
4/26/2022 17:00	4/26/2022 18:00	1045.4
4/26/2022 18:00	4/26/2022 19:00	1087.1
4/26/2022 19:00	4/26/2022 20:00	1121.5
4/26/2022 20:00	4/26/2022 21:00	1149.5
4/26/2022 21:00	4/26/2022 22:00	1101.2
4/26/2022 22:00	4/26/2022 23:00	1065.3
4/26/2022 23:00	4/27/2022 0:00	1038.2
4/27/2022 0:00	4/27/2022 1:00	986.6
4/27/2022 1:00	4/27/2022 2:00	957.0
4/27/2022 2:00	4/27/2022 3:00	941.9
4/27/2022 3:00	4/27/2022 4:00	966.7
4/27/2022 4:00	4/27/2022 5:00	993.0
4/27/2022 5:00	4/27/2022 6:00	1040.4
4/27/2022 6:00	4/27/2022 7:00	1154.6
4/27/2022 7:00	4/27/2022 8:00	1241.9
4/27/2022 8:00	4/27/2022 9:00	1299.7
4/27/2022 9:00	4/27/2022 10:00	1300.2
4/27/2022 10:00	4/27/2022 11:00	1249.6
4/27/2022 11:00	4/27/2022 12:00	1261.6
4/27/2022 12:00	4/27/2022 13:00	1230.1
4/27/2022 13:00	4/27/2022 14:00	1162.7
4/27/2022 14:00	4/27/2022 15:00	1100.3
4/27/2022 15:00	4/27/2022 16:00	1106.0
4/27/2022 16:00	4/27/2022 17:00	1139.1
4/27/2022 17:00	4/27/2022 18:00	1159.7
4/27/2022 18:00	4/27/2022 19:00	1116.5
4/27/2022 19:00	4/27/2022 20:00	1073.6
4/27/2022 20:00	4/27/2022 21:00	1074.2
4/27/2022 21:00	4/27/2022 22:00	1047.4
4/27/2022 22:00	4/27/2022 23:00	1014.5
4/27/2022 23:00	4/28/2022 0:00	992.8
4/28/2022 0:00	4/28/2022 1:00	983.2
4/28/2022 1:00	4/28/2022 2:00	926.9
4/28/2022 2:00	4/28/2022 3:00	886.7
4/28/2022 3:00	4/28/2022 4:00	881.3
4/28/2022 4:00	4/28/2022 5:00	913.0
4/28/2022 5:00	4/28/2022 6:00	979.2
4/28/2022 6:00	4/28/2022 7:00	1062.2
4/28/2022 7:00	4/28/2022 8:00	1215.5
4/28/2022 8:00	4/28/2022 9:00	1265.4

Start Time	End Time	ANL_MW
4/28/2022 9:00	4/28/2022 10:00	1249.3
4/28/2022 10:00	4/28/2022 11:00	1210.8
4/28/2022 11:00	4/28/2022 12:00	1168.3
4/28/2022 12:00	4/28/2022 13:00	1143.6
4/28/2022 13:00	4/28/2022 14:00	1117.6
4/28/2022 14:00	4/28/2022 15:00	1099.2
4/28/2022 15:00	4/28/2022 16:00	1087.1
4/28/2022 16:00	4/28/2022 17:00	1098.4
4/28/2022 17:00	4/28/2022 18:00	1140.9
4/28/2022 18:00	4/28/2022 19:00	1168.8
4/28/2022 19:00	4/28/2022 20:00	1174.1
4/28/2022 20:00	4/28/2022 21:00	1204.3
4/28/2022 21:00	4/28/2022 22:00	1191.4
4/28/2022 22:00	4/28/2022 23:00	1169.4
4/28/2022 23:00	4/29/2022 0:00	1125.5
4/29/2022 0:00	4/29/2022 1:00	1105.4
4/29/2022 1:00	4/29/2022 2:00	1110.2
4/29/2022 2:00	4/29/2022 3:00	1086.2
4/29/2022 3:00	4/29/2022 4:00	1065.6
4/29/2022 4:00	4/29/2022 5:00	1078.1
4/29/2022 5:00	4/29/2022 6:00	1110.2
4/29/2022 6:00	4/29/2022 7:00	1152.4
4/29/2022 7:00	4/29/2022 8:00	1271.3
4/29/2022 8:00	4/29/2022 9:00	1269.8
4/29/2022 9:00	4/29/2022 10:00	1250.0
4/29/2022 10:00	4/29/2022 11:00	1223.9
4/29/2022 11:00	4/29/2022 12:00	1226.9
4/29/2022 12:00	4/29/2022 13:00	1206.1
4/29/2022 13:00	4/29/2022 14:00	1187.9
4/29/2022 14:00	4/29/2022 15:00	1153.9
4/29/2022 15:00	4/29/2022 16:00	1147.7
4/29/2022 16:00	4/29/2022 17:00	1175.7
4/29/2022 17:00	4/29/2022 18:00	1193.5
4/29/2022 18:00	4/29/2022 19:00	1165.1
4/29/2022 19:00	4/29/2022 20:00	1149.3
4/29/2022 20:00	4/29/2022 21:00	1155.4
4/29/2022 21:00	4/29/2022 22:00	1179.8
4/29/2022 22:00	4/29/2022 23:00	1113.0
4/29/2022 23:00	4/30/2022 0:00	1079.3
4/30/2022 0:00	4/30/2022 1:00	1053.8
4/30/2022 1:00	4/30/2022 2:00	1035.0
4/30/2022 2:00	4/30/2022 3:00	1008.5
4/30/2022 3:00	4/30/2022 4:00	984.0
4/30/2022 4:00	4/30/2022 5:00	976.4
4/30/2022 5:00	4/30/2022 6:00	982.4
4/30/2022 6:00	4/30/2022 7:00	1029.2
4/30/2022 7:00	4/30/2022 8:00	1097.2
4/30/2022 8:00	4/30/2022 9:00	1164.9
4/30/2022 9:00	4/30/2022 10:00	1210.6
4/30/2022 10:00	4/30/2022 11:00	1163.4
4/30/2022 11:00	4/30/2022 12:00	1102.5
4/30/2022 12:00	4/30/2022 13:00	1068.2
4/30/2022 13:00	4/30/2022 14:00	1003.7
4/30/2022 14:00	4/30/2022 15:00	930.2
4/30/2022 15:00	4/30/2022 16:00	884.4
4/30/2022 16:00	4/30/2022 17:00	900.0
4/30/2022 17:00	4/30/2022 18:00	968.6
4/30/2022 18:00	4/30/2022 19:00	1008.9
4/30/2022 19:00	4/30/2022 20:00	1075.8
4/30/2022 20:00	4/30/2022 21:00	1122.1
4/30/2022 21:00	4/30/2022 22:00	1197.8
4/30/2022 22:00	4/30/2022 23:00	1160.8
4/30/2022 23:00	5/1/2022 0:00	1133.0
5/1/2022 0:00	5/1/2022 1:00	1096.1
5/1/2022 1:00	5/1/2022 2:00	1070.0
5/1/2022 2:00	5/1/2022 3:00	1067.9
5/1/2022 3:00	5/1/2022 4:00	1060.1
5/1/2022 4:00	5/1/2022 5:00	1069.5
5/1/2022 5:00	5/1/2022 6:00	1079.4
5/1/2022 6:00	5/1/2022 7:00	1015.6

Start Time	End Time	ANL_MW
5/1/2022 7:00	5/1/2022 8:00	1073.7
5/1/2022 8:00	5/1/2022 9:00	1101.1
5/1/2022 9:00	5/1/2022 10:00	1096.7
5/1/2022 10:00	5/1/2022 11:00	1092.1
5/1/2022 11:00	5/1/2022 12:00	1041.2
5/1/2022 12:00	5/1/2022 13:00	1013.4
5/1/2022 13:00	5/1/2022 14:00	958.7
5/1/2022 14:00	5/1/2022 15:00	884.9
5/1/2022 15:00	5/1/2022 16:00	893.1
5/1/2022 16:00	5/1/2022 17:00	915.5
5/1/2022 17:00	5/1/2022 18:00	983.0
5/1/2022 18:00	5/1/2022 19:00	1021.1
5/1/2022 19:00	5/1/2022 20:00	1019.0
5/1/2022 20:00	5/1/2022 21:00	1056.9
5/1/2022 21:00	5/1/2022 22:00	1053.0
5/1/2022 22:00	5/1/2022 23:00	980.6
5/1/2022 23:00	5/2/2022 0:00	919.2
5/2/2022 0:00	5/2/2022 1:00	864.6
5/2/2022 1:00	5/2/2022 2:00	850.2
5/2/2022 2:00	5/2/2022 3:00	850.5
5/2/2022 3:00	5/2/2022 4:00	874.8
5/2/2022 4:00	5/2/2022 5:00	905.1
5/2/2022 5:00	5/2/2022 6:00	958.8
5/2/2022 6:00	5/2/2022 7:00	1067.9
5/2/2022 7:00	5/2/2022 8:00	1165.2
5/2/2022 8:00	5/2/2022 9:00	1158.8
5/2/2022 9:00	5/2/2022 10:00	1134.2
5/2/2022 10:00	5/2/2022 11:00	1090.6
5/2/2022 11:00	5/2/2022 12:00	1037.4
5/2/2022 12:00	5/2/2022 13:00	1014.6
5/2/2022 13:00	5/2/2022 14:00	988.3
5/2/2022 14:00	5/2/2022 15:00	960.0
5/2/2022 15:00	5/2/2022 16:00	956.8
5/2/2022 16:00	5/2/2022 17:00	997.8
5/2/2022 17:00	5/2/2022 18:00	1028.8
5/2/2022 18:00	5/2/2022 19:00	1042.1
5/2/2022 19:00	5/2/2022 20:00	1081.8
5/2/2022 20:00	5/2/2022 21:00	1104.1
5/2/2022 21:00	5/2/2022 22:00	1082.0
5/2/2022 22:00	5/2/2022 23:00	1087.4
5/2/2022 23:00	5/3/2022 0:00	1067.8
5/3/2022 0:00	5/3/2022 1:00	1074.9
5/3/2022 1:00	5/3/2022 2:00	1064.2
5/3/2022 2:00	5/3/2022 3:00	945.2
5/3/2022 3:00	5/3/2022 4:00	925.3
5/3/2022 4:00	5/3/2022 5:00	947.7
5/3/2022 5:00	5/3/2022 6:00	1017.8
5/3/2022 6:00	5/3/2022 7:00	1142.7
5/3/2022 7:00	5/3/2022 8:00	1186.5
5/3/2022 8:00	5/3/2022 9:00	1195.5
5/3/2022 9:00	5/3/2022 10:00	1156.3
5/3/2022 10:00	5/3/2022 11:00	1113.7
5/3/2022 11:00	5/3/2022 12:00	1082.9
5/3/2022 12:00	5/3/2022 13:00	1059.0
5/3/2022 13:00	5/3/2022 14:00	1032.0
5/3/2022 14:00	5/3/2022 15:00	1002.7
5/3/2022 15:00	5/3/2022 16:00	1004.9
5/3/2022 16:00	5/3/2022 17:00	1044.7
5/3/2022 17:00	5/3/2022 18:00	1091.8
5/3/2022 18:00	5/3/2022 19:00	1103.1
5/3/2022 19:00	5/3/2022 20:00	1129.2
5/3/2022 20:00	5/3/2022 21:00	1142.8
5/3/2022 21:00	5/3/2022 22:00	1184.1
5/3/2022 22:00	5/3/2022 23:00	1084.8
5/3/2022 23:00	5/4/2022 0:00	1005.6
5/4/2022 0:00	5/4/2022 1:00	950.8
5/4/2022 1:00	5/4/2022 2:00	925.6
5/4/2022 2:00	5/4/2022 3:00	939.4
5/4/2022 3:00	5/4/2022 4:00	942.0
5/4/2022 4:00	5/4/2022 5:00	982.7

Start Time	End Time	ANL_MW
5/4/2022 5:00	5/4/2022 6:00	1019.2
5/4/2022 6:00	5/4/2022 7:00	1066.0
5/4/2022 7:00	5/4/2022 8:00	1138.4
5/4/2022 8:00	5/4/2022 9:00	1192.4
5/4/2022 9:00	5/4/2022 10:00	1165.9
5/4/2022 10:00	5/4/2022 11:00	1128.3
5/4/2022 11:00	5/4/2022 12:00	1105.1
5/4/2022 12:00	5/4/2022 13:00	1054.7
5/4/2022 13:00	5/4/2022 14:00	1004.7
5/4/2022 14:00	5/4/2022 15:00	962.0
5/4/2022 15:00	5/4/2022 16:00	984.7
5/4/2022 16:00	5/4/2022 17:00	1046.0
5/4/2022 17:00	5/4/2022 18:00	1095.7
5/4/2022 18:00	5/4/2022 19:00	1108.2
5/4/2022 19:00	5/4/2022 20:00	1098.2
5/4/2022 20:00	5/4/2022 21:00	1070.9
5/4/2022 21:00	5/4/2022 22:00	1061.0
5/4/2022 22:00	5/4/2022 23:00	1030.0
5/4/2022 23:00	5/5/2022 0:00	989.9
5/5/2022 0:00	5/5/2022 1:00	987.4
5/5/2022 1:00	5/5/2022 2:00	968.5
5/5/2022 2:00	5/5/2022 3:00	949.8
5/5/2022 3:00	5/5/2022 4:00	966.6
5/5/2022 4:00	5/5/2022 5:00	991.7
5/5/2022 5:00	5/5/2022 6:00	1056.3
5/5/2022 6:00	5/5/2022 7:00	1189.6
5/5/2022 7:00	5/5/2022 8:00	1267.8
5/5/2022 8:00	5/5/2022 9:00	1322.0
5/5/2022 9:00	5/5/2022 10:00	1292.0
5/5/2022 10:00	5/5/2022 11:00	1230.2
5/5/2022 11:00	5/5/2022 12:00	1208.2
5/5/2022 12:00	5/5/2022 13:00	1186.8
5/5/2022 13:00	5/5/2022 14:00	1179.0
5/5/2022 14:00	5/5/2022 15:00	1291.7
5/5/2022 15:00	5/5/2022 16:00	1135.7
5/5/2022 16:00	5/5/2022 17:00	1114.2
5/5/2022 17:00	5/5/2022 18:00	1087.9
5/5/2022 18:00	5/5/2022 19:00	1039.4
5/5/2022 19:00	5/5/2022 20:00	1057.1
5/5/2022 20:00	5/5/2022 21:00	1087.0
5/5/2022 21:00	5/5/2022 22:00	1082.6
5/5/2022 22:00	5/5/2022 23:00	1046.8
5/5/2022 23:00	5/6/2022 0:00	1096.8
5/6/2022 0:00	5/6/2022 1:00	1068.9
5/6/2022 1:00	5/6/2022 2:00	1046.6
5/6/2022 2:00	5/6/2022 3:00	1042.9
5/6/2022 3:00	5/6/2022 4:00	1014.6
5/6/2022 4:00	5/6/2022 5:00	1024.5
5/6/2022 5:00	5/6/2022 6:00	1051.2
5/6/2022 6:00	5/6/2022 7:00	1112.5
5/6/2022 7:00	5/6/2022 8:00	1196.5
5/6/2022 8:00	5/6/2022 9:00	1194.9
5/6/2022 9:00	5/6/2022 10:00	1143.2
5/6/2022 10:00	5/6/2022 11:00	1103.5
5/6/2022 11:00	5/6/2022 12:00	1065.1
5/6/2022 12:00	5/6/2022 13:00	1025.4
5/6/2022 13:00	5/6/2022 14:00	985.3
5/6/2022 14:00	5/6/2022 15:00	962.2
5/6/2022 15:00	5/6/2022 16:00	968.3
5/6/2022 16:00	5/6/2022 17:00	1022.1
5/6/2022 17:00	5/6/2022 18:00	1073.6
5/6/2022 18:00	5/6/2022 19:00	1088.6
5/6/2022 19:00	5/6/2022 20:00	1117.5
5/6/2022 20:00	5/6/2022 21:00	1159.8
5/6/2022 21:00	5/6/2022 22:00	1170.2
5/6/2022 22:00	5/6/2022 23:00	1120.0
5/6/2022 23:00	5/7/2022 0:00	1083.4
5/7/2022 0:00	5/7/2022 1:00	1061.5
5/7/2022 1:00	5/7/2022 2:00	1039.1
5/7/2022 2:00	5/7/2022 3:00	1018.7

Start Time	End Time	ANL_MW
5/7/2022 3:00	5/7/2022 4:00	1024.9
5/7/2022 4:00	5/7/2022 5:00	1034.6
5/7/2022 5:00	5/7/2022 6:00	1061.0
5/7/2022 6:00	5/7/2022 7:00	1089.8
5/7/2022 7:00	5/7/2022 8:00	1108.1
5/7/2022 8:00	5/7/2022 9:00	1139.2
5/7/2022 9:00	5/7/2022 10:00	1119.7
5/7/2022 10:00	5/7/2022 11:00	1077.7
5/7/2022 11:00	5/7/2022 12:00	1094.2
5/7/2022 12:00	5/7/2022 13:00	1050.8
5/7/2022 13:00	5/7/2022 14:00	995.6
5/7/2022 14:00	5/7/2022 15:00	958.5
5/7/2022 15:00	5/7/2022 16:00	986.1
5/7/2022 16:00	5/7/2022 17:00	1025.0
5/7/2022 17:00	5/7/2022 18:00	1045.2
5/7/2022 18:00	5/7/2022 19:00	1094.0
5/7/2022 19:00	5/7/2022 20:00	1121.8
5/7/2022 20:00	5/7/2022 21:00	1195.1
5/7/2022 21:00	5/7/2022 22:00	1219.5
5/7/2022 22:00	5/7/2022 23:00	1154.6
5/7/2022 23:00	5/8/2022 0:00	1114.1
5/8/2022 0:00	5/8/2022 1:00	1074.0
5/8/2022 1:00	5/8/2022 2:00	1022.1
5/8/2022 2:00	5/8/2022 3:00	1000.1
5/8/2022 3:00	5/8/2022 4:00	1035.9
5/8/2022 4:00	5/8/2022 5:00	1053.5
5/8/2022 5:00	5/8/2022 6:00	1089.1
5/8/2022 6:00	5/8/2022 7:00	1104.0
5/8/2022 7:00	5/8/2022 8:00	1151.5
5/8/2022 8:00	5/8/2022 9:00	1194.0
5/8/2022 9:00	5/8/2022 10:00	1189.5
5/8/2022 10:00	5/8/2022 11:00	1133.5
5/8/2022 11:00	5/8/2022 12:00	1111.6
5/8/2022 12:00	5/8/2022 13:00	1093.2
5/8/2022 13:00	5/8/2022 14:00	1048.3
5/8/2022 14:00	5/8/2022 15:00	1085.5
5/8/2022 15:00	5/8/2022 16:00	1079.3
5/8/2022 16:00	5/8/2022 17:00	1082.5
5/8/2022 17:00	5/8/2022 18:00	1093.7
5/8/2022 18:00	5/8/2022 19:00	1127.9
5/8/2022 19:00	5/8/2022 20:00	1190.6
5/8/2022 20:00	5/8/2022 21:00	1258.5
5/8/2022 21:00	5/8/2022 22:00	1255.0
5/8/2022 22:00	5/8/2022 23:00	1183.1
5/8/2022 23:00	5/9/2022 0:00	1113.1
5/9/2022 0:00	5/9/2022 1:00	1046.1
5/9/2022 1:00	5/9/2022 2:00	1004.6
5/9/2022 2:00	5/9/2022 3:00	1018.1
5/9/2022 3:00	5/9/2022 4:00	1026.3
5/9/2022 4:00	5/9/2022 5:00	1054.9
5/9/2022 5:00	5/9/2022 6:00	1126.9
5/9/2022 6:00	5/9/2022 7:00	1172.6
5/9/2022 7:00	5/9/2022 8:00	1249.7
5/9/2022 8:00	5/9/2022 9:00	1258.2
5/9/2022 9:00	5/9/2022 10:00	1185.9
5/9/2022 10:00	5/9/2022 11:00	1106.2
5/9/2022 11:00	5/9/2022 12:00	1061.8
5/9/2022 12:00	5/9/2022 13:00	1046.0
5/9/2022 13:00	5/9/2022 14:00	1020.4
5/9/2022 14:00	5/9/2022 15:00	976.9
5/9/2022 15:00	5/9/2022 16:00	970.5
5/9/2022 16:00	5/9/2022 17:00	1007.1
5/9/2022 17:00	5/9/2022 18:00	1037.7
5/9/2022 18:00	5/9/2022 19:00	1022.2
5/9/2022 19:00	5/9/2022 20:00	1033.7
5/9/2022 20:00	5/9/2022 21:00	1074.9
5/9/2022 21:00	5/9/2022 22:00	1035.2
5/9/2022 22:00	5/9/2022 23:00	955.7
5/9/2022 23:00	5/10/2022 0:00	947.0
5/10/2022 0:00	5/10/2022 1:00	926.6

Start Time	End Time	ANL_MW
5/10/2022 1:00	5/10/2022 2:00	919.4
5/10/2022 2:00	5/10/2022 3:00	907.8
5/10/2022 3:00	5/10/2022 4:00	909.0
5/10/2022 4:00	5/10/2022 5:00	896.9
5/10/2022 5:00	5/10/2022 6:00	933.1
5/10/2022 6:00	5/10/2022 7:00	1012.4
5/10/2022 7:00	5/10/2022 8:00	1120.7
5/10/2022 8:00	5/10/2022 9:00	1126.3
5/10/2022 9:00	5/10/2022 10:00	1126.2
5/10/2022 10:00	5/10/2022 11:00	1102.3
5/10/2022 11:00	5/10/2022 12:00	1082.4
5/10/2022 12:00	5/10/2022 13:00	1063.3
5/10/2022 13:00	5/10/2022 14:00	1011.9
5/10/2022 14:00	5/10/2022 15:00	991.1
5/10/2022 15:00	5/10/2022 16:00	985.0
5/10/2022 16:00	5/10/2022 17:00	1021.2
5/10/2022 17:00	5/10/2022 18:00	1048.3
5/10/2022 18:00	5/10/2022 19:00	1039.7
5/10/2022 19:00	5/10/2022 20:00	1070.2
5/10/2022 20:00	5/10/2022 21:00	1078.0
5/10/2022 21:00	5/10/2022 22:00	1055.3
5/10/2022 22:00	5/10/2022 23:00	951.2
5/10/2022 23:00	5/11/2022 0:00	899.3
5/11/2022 0:00	5/11/2022 1:00	889.9
5/11/2022 1:00	5/11/2022 2:00	857.3
5/11/2022 2:00	5/11/2022 3:00	873.8
5/11/2022 3:00	5/11/2022 4:00	893.0
5/11/2022 4:00	5/11/2022 5:00	935.6
5/11/2022 5:00	5/11/2022 6:00	933.9
5/11/2022 6:00	5/11/2022 7:00	1023.0
5/11/2022 7:00	5/11/2022 8:00	1145.0
5/11/2022 8:00	5/11/2022 9:00	1197.4
5/11/2022 9:00	5/11/2022 10:00	1208.4
5/11/2022 10:00	5/11/2022 11:00	1198.9
5/11/2022 11:00	5/11/2022 12:00	1185.0
5/11/2022 12:00	5/11/2022 13:00	1159.8
5/11/2022 13:00	5/11/2022 14:00	1146.0
5/11/2022 14:00	5/11/2022 15:00	1120.3
5/11/2022 15:00	5/11/2022 16:00	1122.4
5/11/2022 16:00	5/11/2022 17:00	1159.6
5/11/2022 17:00	5/11/2022 18:00	1187.4
5/11/2022 18:00	5/11/2022 19:00	1158.1
5/11/2022 19:00	5/11/2022 20:00	1174.9
5/11/2022 20:00	5/11/2022 21:00	1197.7
5/11/2022 21:00	5/11/2022 22:00	1178.9
5/11/2022 22:00	5/11/2022 23:00	1081.2
5/11/2022 23:00	5/12/2022 0:00	1010.4
5/12/2022 0:00	5/12/2022 1:00	992.0
5/12/2022 1:00	5/12/2022 2:00	958.2
5/12/2022 2:00	5/12/2022 3:00	934.8
5/12/2022 3:00	5/12/2022 4:00	904.2
5/12/2022 4:00	5/12/2022 5:00	897.3
5/12/2022 5:00	5/12/2022 6:00	906.2
5/12/2022 6:00	5/12/2022 7:00	923.5
5/12/2022 7:00	5/12/2022 8:00	1016.1
5/12/2022 8:00	5/12/2022 9:00	1040.2
5/12/2022 9:00	5/12/2022 10:00	1043.4
5/12/2022 10:00	5/12/2022 11:00	1055.4
5/12/2022 11:00	5/12/2022 12:00	1078.8
5/12/2022 12:00	5/12/2022 13:00	1086.0
5/12/2022 13:00	5/12/2022 14:00	1078.0
5/12/2022 14:00	5/12/2022 15:00	1033.4
5/12/2022 15:00	5/12/2022 16:00	1029.7
5/12/2022 16:00	5/12/2022 17:00	1069.9
5/12/2022 17:00	5/12/2022 18:00	1109.6
5/12/2022 18:00	5/12/2022 19:00	1115.5
5/12/2022 19:00	5/12/2022 20:00	1110.5
5/12/2022 20:00	5/12/2022 21:00	1090.6
5/12/2022 21:00	5/12/2022 22:00	1048.1
5/12/2022 22:00	5/12/2022 23:00	983.0

Start Time	End Time	ANL_MW
5/12/2022 23:00	5/13/2022 0:00	950.5
5/13/2022 0:00	5/13/2022 1:00	916.2
5/13/2022 1:00	5/13/2022 2:00	886.4
5/13/2022 2:00	5/13/2022 3:00	873.5
5/13/2022 3:00	5/13/2022 4:00	872.7
5/13/2022 4:00	5/13/2022 5:00	875.4
5/13/2022 5:00	5/13/2022 6:00	902.3
5/13/2022 6:00	5/13/2022 7:00	956.6
5/13/2022 7:00	5/13/2022 8:00	982.3
5/13/2022 8:00	5/13/2022 9:00	1072.9
5/13/2022 9:00	5/13/2022 10:00	1100.7
5/13/2022 10:00	5/13/2022 11:00	1081.8
5/13/2022 11:00	5/13/2022 12:00	1007.9
5/13/2022 12:00	5/13/2022 13:00	970.0
5/13/2022 13:00	5/13/2022 14:00	900.2
5/13/2022 14:00	5/13/2022 15:00	855.6
5/13/2022 15:00	5/13/2022 16:00	838.6
5/13/2022 16:00	5/13/2022 17:00	872.9
5/13/2022 17:00	5/13/2022 18:00	874.1
5/13/2022 18:00	5/13/2022 19:00	811.6
5/13/2022 19:00	5/13/2022 20:00	830.7
5/13/2022 20:00	5/13/2022 21:00	827.4
5/13/2022 21:00	5/13/2022 22:00	797.8
5/13/2022 22:00	5/13/2022 23:00	725.8
5/13/2022 23:00	5/14/2022 0:00	645.6
5/14/2022 0:00	5/14/2022 1:00	574.6
5/14/2022 1:00	5/14/2022 2:00	600.8
5/14/2022 2:00	5/14/2022 3:00	601.5
5/14/2022 3:00	5/14/2022 4:00	587.8
5/14/2022 4:00	5/14/2022 5:00	606.7
5/14/2022 5:00	5/14/2022 6:00	658.2
5/14/2022 6:00	5/14/2022 7:00	682.2
5/14/2022 7:00	5/14/2022 8:00	765.6
5/14/2022 8:00	5/14/2022 9:00	891.8
5/14/2022 9:00	5/14/2022 10:00	946.0
5/14/2022 10:00	5/14/2022 11:00	984.0
5/14/2022 11:00	5/14/2022 12:00	995.7
5/14/2022 12:00	5/14/2022 13:00	995.7
5/14/2022 13:00	5/14/2022 14:00	970.2
5/14/2022 14:00	5/14/2022 15:00	945.4
5/14/2022 15:00	5/14/2022 16:00	944.0
5/14/2022 16:00	5/14/2022 17:00	977.1
5/14/2022 17:00	5/14/2022 18:00	1022.3
5/14/2022 18:00	5/14/2022 19:00	1030.3
5/14/2022 19:00	5/14/2022 20:00	1039.3
5/14/2022 20:00	5/14/2022 21:00	1045.1
5/14/2022 21:00	5/14/2022 22:00	1016.1
5/14/2022 22:00	5/14/2022 23:00	972.3
5/14/2022 23:00	5/15/2022 0:00	957.4
5/15/2022 0:00	5/15/2022 1:00	891.3
5/15/2022 1:00	5/15/2022 2:00	854.3
5/15/2022 2:00	5/15/2022 3:00	822.5
5/15/2022 3:00	5/15/2022 4:00	705.2
5/15/2022 4:00	5/15/2022 5:00	718.2
5/15/2022 5:00	5/15/2022 6:00	736.6
5/15/2022 6:00	5/15/2022 7:00	757.2
5/15/2022 7:00	5/15/2022 8:00	823.9
5/15/2022 8:00	5/15/2022 9:00	904.0
5/15/2022 9:00	5/15/2022 10:00	969.8
5/15/2022 10:00	5/15/2022 11:00	1015.5
5/15/2022 11:00	5/15/2022 12:00	1069.4
5/15/2022 12:00	5/15/2022 13:00	1091.8
5/15/2022 13:00	5/15/2022 14:00	1064.2
5/15/2022 14:00	5/15/2022 15:00	1001.5
5/15/2022 15:00	5/15/2022 16:00	997.3
5/15/2022 16:00	5/15/2022 17:00	1007.6
5/15/2022 17:00	5/15/2022 18:00	1025.8
5/15/2022 18:00	5/15/2022 19:00	991.7
5/15/2022 19:00	5/15/2022 20:00	951.9
5/15/2022 20:00	5/15/2022 21:00	920.9

Start Time	End Time	ANL_MW
5/15/2022 21:00	5/15/2022 22:00	878.0
5/15/2022 22:00	5/15/2022 23:00	778.9
5/15/2022 23:00	5/16/2022 0:00	695.3
5/16/2022 0:00	5/16/2022 1:00	664.4
5/16/2022 1:00	5/16/2022 2:00	677.3
5/16/2022 2:00	5/16/2022 3:00	671.4
5/16/2022 3:00	5/16/2022 4:00	672.3
5/16/2022 4:00	5/16/2022 5:00	698.0
5/16/2022 5:00	5/16/2022 6:00	724.1
5/16/2022 6:00	5/16/2022 7:00	778.6
5/16/2022 7:00	5/16/2022 8:00	934.4
5/16/2022 8:00	5/16/2022 9:00	1027.4
5/16/2022 9:00	5/16/2022 10:00	1043.5
5/16/2022 10:00	5/16/2022 11:00	1056.2
5/16/2022 11:00	5/16/2022 12:00	1076.2
5/16/2022 12:00	5/16/2022 13:00	1086.3
5/16/2022 13:00	5/16/2022 14:00	1083.8
5/16/2022 14:00	5/16/2022 15:00	1070.2
5/16/2022 15:00	5/16/2022 16:00	1080.1
5/16/2022 16:00	5/16/2022 17:00	1123.4
5/16/2022 17:00	5/16/2022 18:00	1155.6
5/16/2022 18:00	5/16/2022 19:00	1131.2
5/16/2022 19:00	5/16/2022 20:00	1129.3
5/16/2022 20:00	5/16/2022 21:00	1118.3
5/16/2022 21:00	5/16/2022 22:00	1065.0
5/16/2022 22:00	5/16/2022 23:00	946.5
5/16/2022 23:00	5/17/2022 0:00	909.9
5/17/2022 0:00	5/17/2022 1:00	856.6
5/17/2022 1:00	5/17/2022 2:00	823.5
5/17/2022 2:00	5/17/2022 3:00	769.4
5/17/2022 3:00	5/17/2022 4:00	733.2
5/17/2022 4:00	5/17/2022 5:00	715.9
5/17/2022 5:00	5/17/2022 6:00	732.8
5/17/2022 6:00	5/17/2022 7:00	836.7
5/17/2022 7:00	5/17/2022 8:00	868.7
5/17/2022 8:00	5/17/2022 9:00	892.8
5/17/2022 9:00	5/17/2022 10:00	886.7
5/17/2022 10:00	5/17/2022 11:00	882.9
5/17/2022 11:00	5/17/2022 12:00	965.3
5/17/2022 12:00	5/17/2022 13:00	952.0
5/17/2022 13:00	5/17/2022 14:00	949.6
5/17/2022 14:00	5/17/2022 15:00	855.3
5/17/2022 15:00	5/17/2022 16:00	831.0
5/17/2022 16:00	5/17/2022 17:00	853.1
5/17/2022 17:00	5/17/2022 18:00	904.9
5/17/2022 18:00	5/17/2022 19:00	898.5
5/17/2022 19:00	5/17/2022 20:00	907.4
5/17/2022 20:00	5/17/2022 21:00	911.3
5/17/2022 21:00	5/17/2022 22:00	885.4
5/17/2022 22:00	5/17/2022 23:00	778.2
5/17/2022 23:00	5/18/2022 0:00	777.1
5/18/2022 0:00	5/18/2022 1:00	700.1
5/18/2022 1:00	5/18/2022 2:00	675.3
5/18/2022 2:00	5/18/2022 3:00	680.1
5/18/2022 3:00	5/18/2022 4:00	693.5
5/18/2022 4:00	5/18/2022 5:00	734.7
5/18/2022 5:00	5/18/2022 6:00	764.6
5/18/2022 6:00	5/18/2022 7:00	832.6
5/18/2022 7:00	5/18/2022 8:00	922.9
5/18/2022 8:00	5/18/2022 9:00	919.4
5/18/2022 9:00	5/18/2022 10:00	875.8
5/18/2022 10:00	5/18/2022 11:00	895.5
5/18/2022 11:00	5/18/2022 12:00	873.7
5/18/2022 12:00	5/18/2022 13:00	818.4
5/18/2022 13:00	5/18/2022 14:00	887.8
5/18/2022 14:00	5/18/2022 15:00	890.7
5/18/2022 15:00	5/18/2022 16:00	878.8
5/18/2022 16:00	5/18/2022 17:00	907.3
5/18/2022 17:00	5/18/2022 18:00	858.8
5/18/2022 18:00	5/18/2022 19:00	850.5

Start Time	End Time	ANL_MW
5/18/2022 19:00	5/18/2022 20:00	884.4
5/18/2022 20:00	5/18/2022 21:00	918.5
5/18/2022 21:00	5/18/2022 22:00	982.9
5/18/2022 22:00	5/18/2022 23:00	959.9
5/18/2022 23:00	5/19/2022 0:00	890.6
5/19/2022 0:00	5/19/2022 1:00	819.4
5/19/2022 1:00	5/19/2022 2:00	780.8
5/19/2022 2:00	5/19/2022 3:00	761.5
5/19/2022 3:00	5/19/2022 4:00	766.8
5/19/2022 4:00	5/19/2022 5:00	812.3
5/19/2022 5:00	5/19/2022 6:00	894.5
5/19/2022 6:00	5/19/2022 7:00	958.8
5/19/2022 7:00	5/19/2022 8:00	1081.2
5/19/2022 8:00	5/19/2022 9:00	1082.5
5/19/2022 9:00	5/19/2022 10:00	1070.1
5/19/2022 10:00	5/19/2022 11:00	1058.8
5/19/2022 11:00	5/19/2022 12:00	1059.6
5/19/2022 12:00	5/19/2022 13:00	1059.0
5/19/2022 13:00	5/19/2022 14:00	1035.9
5/19/2022 14:00	5/19/2022 15:00	1013.7
5/19/2022 15:00	5/19/2022 16:00	1028.1
5/19/2022 16:00	5/19/2022 17:00	1056.1
5/19/2022 17:00	5/19/2022 18:00	1079.5
5/19/2022 18:00	5/19/2022 19:00	1073.5
5/19/2022 19:00	5/19/2022 20:00	1086.2
5/19/2022 20:00	5/19/2022 21:00	1083.7
5/19/2022 21:00	5/19/2022 22:00	1038.4
5/19/2022 22:00	5/19/2022 23:00	957.8
5/19/2022 23:00	5/20/2022 0:00	922.4
5/20/2022 0:00	5/20/2022 1:00	878.9
5/20/2022 1:00	5/20/2022 2:00	842.7
5/20/2022 2:00	5/20/2022 3:00	832.9
5/20/2022 3:00	5/20/2022 4:00	816.4
5/20/2022 4:00	5/20/2022 5:00	821.5
5/20/2022 5:00	5/20/2022 6:00	861.4
5/20/2022 6:00	5/20/2022 7:00	985.8
5/20/2022 7:00	5/20/2022 8:00	1134.8
5/20/2022 8:00	5/20/2022 9:00	1143.3
5/20/2022 9:00	5/20/2022 10:00	1127.0
5/20/2022 10:00	5/20/2022 11:00	1098.9
5/20/2022 11:00	5/20/2022 12:00	1079.2
5/20/2022 12:00	5/20/2022 13:00	1076.6
5/20/2022 13:00	5/20/2022 14:00	1047.0
5/20/2022 14:00	5/20/2022 15:00	1037.2
5/20/2022 15:00	5/20/2022 16:00	1043.7
5/20/2022 16:00	5/20/2022 17:00	1053.7
5/20/2022 17:00	5/20/2022 18:00	1053.1
5/20/2022 18:00	5/20/2022 19:00	1047.3
5/20/2022 19:00	5/20/2022 20:00	1014.7
5/20/2022 20:00	5/20/2022 21:00	941.6
5/20/2022 21:00	5/20/2022 22:00	887.4
5/20/2022 22:00	5/20/2022 23:00	803.3
5/20/2022 23:00	5/21/2022 0:00	738.9
5/21/2022 0:00	5/21/2022 1:00	702.5
5/21/2022 1:00	5/21/2022 2:00	726.9
5/21/2022 2:00	5/21/2022 3:00	713.4
5/21/2022 3:00	5/21/2022 4:00	691.7
5/21/2022 4:00	5/21/2022 5:00	690.2
5/21/2022 5:00	5/21/2022 6:00	654.3
5/21/2022 6:00	5/21/2022 7:00	698.4
5/21/2022 7:00	5/21/2022 8:00	756.7
5/21/2022 8:00	5/21/2022 9:00	834.8
5/21/2022 9:00	5/21/2022 10:00	843.7
5/21/2022 10:00	5/21/2022 11:00	816.5
5/21/2022 11:00	5/21/2022 12:00	794.6
5/21/2022 12:00	5/21/2022 13:00	744.7
5/21/2022 13:00	5/21/2022 14:00	690.6
5/21/2022 14:00	5/21/2022 15:00	675.4
5/21/2022 15:00	5/21/2022 16:00	670.6
5/21/2022 16:00	5/21/2022 17:00	656.0

Start Time	End Time	ANL_MW
5/21/2022 17:00	5/21/2022 18:00	624.7
5/21/2022 18:00	5/21/2022 19:00	663.6
5/21/2022 19:00	5/21/2022 20:00	708.5
5/21/2022 20:00	5/21/2022 21:00	708.2
5/21/2022 21:00	5/21/2022 22:00	699.7
5/21/2022 22:00	5/21/2022 23:00	701.4
5/21/2022 23:00	5/22/2022 0:00	681.8
5/22/2022 0:00	5/22/2022 1:00	626.2
5/22/2022 1:00	5/22/2022 2:00	619.5
5/22/2022 2:00	5/22/2022 3:00	577.2
5/22/2022 3:00	5/22/2022 4:00	611.1
5/22/2022 4:00	5/22/2022 5:00	607.9
5/22/2022 5:00	5/22/2022 6:00	611.7
5/22/2022 6:00	5/22/2022 7:00	649.4
5/22/2022 7:00	5/22/2022 8:00	682.7
5/22/2022 8:00	5/22/2022 9:00	803.0
5/22/2022 9:00	5/22/2022 10:00	919.1
5/22/2022 10:00	5/22/2022 11:00	1006.0
5/22/2022 11:00	5/22/2022 12:00	962.0
5/22/2022 12:00	5/22/2022 13:00	928.5
5/22/2022 13:00	5/22/2022 14:00	893.7
5/22/2022 14:00	5/22/2022 15:00	860.3
5/22/2022 15:00	5/22/2022 16:00	832.2
5/22/2022 16:00	5/22/2022 17:00	858.9
5/22/2022 17:00	5/22/2022 18:00	863.9
5/22/2022 18:00	5/22/2022 19:00	863.1
5/22/2022 19:00	5/22/2022 20:00	833.5
5/22/2022 20:00	5/22/2022 21:00	826.8
5/22/2022 21:00	5/22/2022 22:00	777.2
5/22/2022 22:00	5/22/2022 23:00	716.0
5/22/2022 23:00	5/23/2022 0:00	662.5
5/23/2022 0:00	5/23/2022 1:00	654.6
5/23/2022 1:00	5/23/2022 2:00	635.2
5/23/2022 2:00	5/23/2022 3:00	671.4
5/23/2022 3:00	5/23/2022 4:00	705.7
5/23/2022 4:00	5/23/2022 5:00	717.7
5/23/2022 5:00	5/23/2022 6:00	775.0
5/23/2022 6:00	5/23/2022 7:00	828.4
5/23/2022 7:00	5/23/2022 8:00	895.8
5/23/2022 8:00	5/23/2022 9:00	926.8
5/23/2022 9:00	5/23/2022 10:00	865.8
5/23/2022 10:00	5/23/2022 11:00	869.1
5/23/2022 11:00	5/23/2022 12:00	906.4
5/23/2022 12:00	5/23/2022 13:00	932.5
5/23/2022 13:00	5/23/2022 14:00	876.9
5/23/2022 14:00	5/23/2022 15:00	872.9
5/23/2022 15:00	5/23/2022 16:00	882.4
5/23/2022 16:00	5/23/2022 17:00	928.5
5/23/2022 17:00	5/23/2022 18:00	947.6
5/23/2022 18:00	5/23/2022 19:00	928.0
5/23/2022 19:00	5/23/2022 20:00	933.1
5/23/2022 20:00	5/23/2022 21:00	948.5
5/23/2022 21:00	5/23/2022 22:00	956.0
5/23/2022 22:00	5/23/2022 23:00	898.4
5/23/2022 23:00	5/24/2022 0:00	820.7
5/24/2022 0:00	5/24/2022 1:00	761.3
5/24/2022 1:00	5/24/2022 2:00	733.6
5/24/2022 2:00	5/24/2022 3:00	695.6
5/24/2022 3:00	5/24/2022 4:00	669.9
5/24/2022 4:00	5/24/2022 5:00	661.2
5/24/2022 5:00	5/24/2022 6:00	699.7
5/24/2022 6:00	5/24/2022 7:00	845.3
5/24/2022 7:00	5/24/2022 8:00	993.8
5/24/2022 8:00	5/24/2022 9:00	1032.1
5/24/2022 9:00	5/24/2022 10:00	993.2
5/24/2022 10:00	5/24/2022 11:00	931.9
5/24/2022 11:00	5/24/2022 12:00	891.8
5/24/2022 12:00	5/24/2022 13:00	871.4
5/24/2022 13:00	5/24/2022 14:00	844.9
5/24/2022 14:00	5/24/2022 15:00	860.7

Start Time	End Time	ANL_MW
5/24/2022 15:00	5/24/2022 16:00	921.0
5/24/2022 16:00	5/24/2022 17:00	978.2
5/24/2022 17:00	5/24/2022 18:00	1044.0
5/24/2022 18:00	5/24/2022 19:00	1066.6
5/24/2022 19:00	5/24/2022 20:00	1054.3
5/24/2022 20:00	5/24/2022 21:00	1036.7
5/24/2022 21:00	5/24/2022 22:00	1044.8
5/24/2022 22:00	5/24/2022 23:00	999.0
5/24/2022 23:00	5/25/2022 0:00	998.8
5/25/2022 0:00	5/25/2022 1:00	957.0
5/25/2022 1:00	5/25/2022 2:00	962.4
5/25/2022 2:00	5/25/2022 3:00	987.9
5/25/2022 3:00	5/25/2022 4:00	975.4
5/25/2022 4:00	5/25/2022 5:00	988.3
5/25/2022 5:00	5/25/2022 6:00	1037.3
5/25/2022 6:00	5/25/2022 7:00	1144.7
5/25/2022 7:00	5/25/2022 8:00	1172.0
5/25/2022 8:00	5/25/2022 9:00	1178.7
5/25/2022 9:00	5/25/2022 10:00	1157.6
5/25/2022 10:00	5/25/2022 11:00	1153.6
5/25/2022 11:00	5/25/2022 12:00	1134.2
5/25/2022 12:00	5/25/2022 13:00	1113.0
5/25/2022 13:00	5/25/2022 14:00	1092.5
5/25/2022 14:00	5/25/2022 15:00	1057.0
5/25/2022 15:00	5/25/2022 16:00	1041.7
5/25/2022 16:00	5/25/2022 17:00	1040.4
5/25/2022 17:00	5/25/2022 18:00	1049.7
5/25/2022 18:00	5/25/2022 19:00	1002.1
5/25/2022 19:00	5/25/2022 20:00	1005.5
5/25/2022 20:00	5/25/2022 21:00	1018.1
5/25/2022 21:00	5/25/2022 22:00	958.1
5/25/2022 22:00	5/25/2022 23:00	846.5
5/25/2022 23:00	5/26/2022 0:00	816.7
5/26/2022 0:00	5/26/2022 1:00	779.3
5/26/2022 1:00	5/26/2022 2:00	726.4
5/26/2022 2:00	5/26/2022 3:00	710.4
5/26/2022 3:00	5/26/2022 4:00	709.5
5/26/2022 4:00	5/26/2022 5:00	732.9
5/26/2022 5:00	5/26/2022 6:00	789.3
5/26/2022 6:00	5/26/2022 7:00	889.4
5/26/2022 7:00	5/26/2022 8:00	980.5
5/26/2022 8:00	5/26/2022 9:00	1029.9
5/26/2022 9:00	5/26/2022 10:00	1053.6
5/26/2022 10:00	5/26/2022 11:00	1062.0
5/26/2022 11:00	5/26/2022 12:00	1065.6
5/26/2022 12:00	5/26/2022 13:00	1053.8
5/26/2022 13:00	5/26/2022 14:00	1017.8
5/26/2022 14:00	5/26/2022 15:00	958.6
5/26/2022 15:00	5/26/2022 16:00	959.2
5/26/2022 16:00	5/26/2022 17:00	985.2
5/26/2022 17:00	5/26/2022 18:00	1024.5
5/26/2022 18:00	5/26/2022 19:00	1034.1
5/26/2022 19:00	5/26/2022 20:00	1020.2
5/26/2022 20:00	5/26/2022 21:00	984.2
5/26/2022 21:00	5/26/2022 22:00	941.6
5/26/2022 22:00	5/26/2022 23:00	910.0
5/26/2022 23:00	5/27/2022 0:00	857.9
5/27/2022 0:00	5/27/2022 1:00	788.1
5/27/2022 1:00	5/27/2022 2:00	722.7
5/27/2022 2:00	5/27/2022 3:00	714.3
5/27/2022 3:00	5/27/2022 4:00	684.5
5/27/2022 4:00	5/27/2022 5:00	618.6
5/27/2022 5:00	5/27/2022 6:00	613.2
5/27/2022 6:00	5/27/2022 7:00	677.8
5/27/2022 7:00	5/27/2022 8:00	810.0
5/27/2022 8:00	5/27/2022 9:00	864.4
5/27/2022 9:00	5/27/2022 10:00	889.3
5/27/2022 10:00	5/27/2022 11:00	907.8
5/27/2022 11:00	5/27/2022 12:00	920.1
5/27/2022 12:00	5/27/2022 13:00	934.0

Start Time	End Time	ANL_MW
5/27/2022 13:00	5/27/2022 14:00	922.7
5/27/2022 14:00	5/27/2022 15:00	867.0
5/27/2022 15:00	5/27/2022 16:00	859.3
5/27/2022 16:00	5/27/2022 17:00	893.9
5/27/2022 17:00	5/27/2022 18:00	907.8
5/27/2022 18:00	5/27/2022 19:00	890.0
5/27/2022 19:00	5/27/2022 20:00	876.2
5/27/2022 20:00	5/27/2022 21:00	882.9
5/27/2022 21:00	5/27/2022 22:00	873.8
5/27/2022 22:00	5/27/2022 23:00	822.4
5/27/2022 23:00	5/28/2022 0:00	766.3
5/28/2022 0:00	5/28/2022 1:00	731.8
5/28/2022 1:00	5/28/2022 2:00	695.2
5/28/2022 2:00	5/28/2022 3:00	647.7
5/28/2022 3:00	5/28/2022 4:00	606.5
5/28/2022 4:00	5/28/2022 5:00	606.2
5/28/2022 5:00	5/28/2022 6:00	618.3
5/28/2022 6:00	5/28/2022 7:00	642.3
5/28/2022 7:00	5/28/2022 8:00	706.8
5/28/2022 8:00	5/28/2022 9:00	754.7
5/28/2022 9:00	5/28/2022 10:00	787.9
5/28/2022 10:00	5/28/2022 11:00	785.3
5/28/2022 11:00	5/28/2022 12:00	768.6
5/28/2022 12:00	5/28/2022 13:00	760.0
5/28/2022 13:00	5/28/2022 14:00	751.6
5/28/2022 14:00	5/28/2022 15:00	771.6
5/28/2022 15:00	5/28/2022 16:00	769.6
5/28/2022 16:00	5/28/2022 17:00	705.8
5/28/2022 17:00	5/28/2022 18:00	728.1
5/28/2022 18:00	5/28/2022 19:00	718.3
5/28/2022 19:00	5/28/2022 20:00	683.9
5/28/2022 20:00	5/28/2022 21:00	664.2
5/28/2022 21:00	5/28/2022 22:00	714.9
5/28/2022 22:00	5/28/2022 23:00	711.3
5/28/2022 23:00	5/29/2022 0:00	694.3
5/29/2022 0:00	5/29/2022 1:00	719.7
5/29/2022 1:00	5/29/2022 2:00	791.5
5/29/2022 2:00	5/29/2022 3:00	773.0
5/29/2022 3:00	5/29/2022 4:00	716.8
5/29/2022 4:00	5/29/2022 5:00	699.8
5/29/2022 5:00	5/29/2022 6:00	718.0
5/29/2022 6:00	5/29/2022 7:00	744.8
5/29/2022 7:00	5/29/2022 8:00	793.2
5/29/2022 8:00	5/29/2022 9:00	857.5
5/29/2022 9:00	5/29/2022 10:00	924.2
5/29/2022 10:00	5/29/2022 11:00	962.6
5/29/2022 11:00	5/29/2022 12:00	980.7
5/29/2022 12:00	5/29/2022 13:00	961.8
5/29/2022 13:00	5/29/2022 14:00	890.3
5/29/2022 14:00	5/29/2022 15:00	912.9
5/29/2022 15:00	5/29/2022 16:00	936.1
5/29/2022 16:00	5/29/2022 17:00	956.4
5/29/2022 17:00	5/29/2022 18:00	931.6
5/29/2022 18:00	5/29/2022 19:00	922.1
5/29/2022 19:00	5/29/2022 20:00	913.1
5/29/2022 20:00	5/29/2022 21:00	877.7
5/29/2022 21:00	5/29/2022 22:00	831.6
5/29/2022 22:00	5/29/2022 23:00	749.5
5/29/2022 23:00	5/30/2022 0:00	702.9
5/30/2022 0:00	5/30/2022 1:00	710.4
5/30/2022 1:00	5/30/2022 2:00	697.6
5/30/2022 2:00	5/30/2022 3:00	698.4
5/30/2022 3:00	5/30/2022 4:00	697.4
5/30/2022 4:00	5/30/2022 5:00	706.5
5/30/2022 5:00	5/30/2022 6:00	758.6
5/30/2022 6:00	5/30/2022 7:00	892.2
5/30/2022 7:00	5/30/2022 8:00	1023.3
5/30/2022 8:00	5/30/2022 9:00	1048.1
5/30/2022 9:00	5/30/2022 10:00	1099.4
5/30/2022 10:00	5/30/2022 11:00	1096.8

Start Time	End Time	ANL_MW
5/30/2022 11:00	5/30/2022 12:00	1066.8
5/30/2022 12:00	5/30/2022 13:00	1074.7
5/30/2022 13:00	5/30/2022 14:00	1022.2
5/30/2022 14:00	5/30/2022 15:00	983.9
5/30/2022 15:00	5/30/2022 16:00	954.6
5/30/2022 16:00	5/30/2022 17:00	955.0
5/30/2022 17:00	5/30/2022 18:00	989.4
5/30/2022 18:00	5/30/2022 19:00	936.3
5/30/2022 19:00	5/30/2022 20:00	869.9
5/30/2022 20:00	5/30/2022 21:00	898.7
5/30/2022 21:00	5/30/2022 22:00	939.3
5/30/2022 22:00	5/30/2022 23:00	879.6
5/30/2022 23:00	5/31/2022 0:00	828.5
5/31/2022 0:00	5/31/2022 1:00	774.3
5/31/2022 1:00	5/31/2022 2:00	768.5
5/31/2022 2:00	5/31/2022 3:00	777.3
5/31/2022 3:00	5/31/2022 4:00	752.2
5/31/2022 4:00	5/31/2022 5:00	753.6
5/31/2022 5:00	5/31/2022 6:00	784.9
5/31/2022 6:00	5/31/2022 7:00	820.6
5/31/2022 7:00	5/31/2022 8:00	939.6
5/31/2022 8:00	5/31/2022 9:00	920.1
5/31/2022 9:00	5/31/2022 10:00	877.5
5/31/2022 10:00	5/31/2022 11:00	839.5
5/31/2022 11:00	5/31/2022 12:00	860.7
5/31/2022 12:00	5/31/2022 13:00	823.9
5/31/2022 13:00	5/31/2022 14:00	791.3
5/31/2022 14:00	5/31/2022 15:00	754.2
5/31/2022 15:00	5/31/2022 16:00	746.9
5/31/2022 16:00	5/31/2022 17:00	787.6
5/31/2022 17:00	5/31/2022 18:00	825.1
5/31/2022 18:00	5/31/2022 19:00	797.6
5/31/2022 19:00	5/31/2022 20:00	797.2
5/31/2022 20:00	5/31/2022 21:00	809.7
5/31/2022 21:00	5/31/2022 22:00	861.0
5/31/2022 22:00	5/31/2022 23:00	834.0
5/31/2022 23:00	6/1/2022 0:00	799.0
6/1/2022 0:00	6/1/2022 1:00	723.8
6/1/2022 1:00	6/1/2022 2:00	675.2
6/1/2022 2:00	6/1/2022 3:00	695.9
6/1/2022 3:00	6/1/2022 4:00	671.0
6/1/2022 4:00	6/1/2022 5:00	642.9
6/1/2022 5:00	6/1/2022 6:00	688.4
6/1/2022 6:00	6/1/2022 7:00	819.4
6/1/2022 7:00	6/1/2022 8:00	861.8
6/1/2022 8:00	6/1/2022 9:00	862.2
6/1/2022 9:00	6/1/2022 10:00	824.4
6/1/2022 10:00	6/1/2022 11:00	841.2
6/1/2022 11:00	6/1/2022 12:00	841.5
6/1/2022 12:00	6/1/2022 13:00	905.6
6/1/2022 13:00	6/1/2022 14:00	880.0
6/1/2022 14:00	6/1/2022 15:00	854.8
6/1/2022 15:00	6/1/2022 16:00	860.1
6/1/2022 16:00	6/1/2022 17:00	905.9
6/1/2022 17:00	6/1/2022 18:00	896.5
6/1/2022 18:00	6/1/2022 19:00	920.4
6/1/2022 19:00	6/1/2022 20:00	940.7
6/1/2022 20:00	6/1/2022 21:00	976.4
6/1/2022 21:00	6/1/2022 22:00	1001.3
6/1/2022 22:00	6/1/2022 23:00	938.6
6/1/2022 23:00	6/2/2022 0:00	880.7
6/2/2022 0:00	6/2/2022 1:00	825.6
6/2/2022 1:00	6/2/2022 2:00	807.6
6/2/2022 2:00	6/2/2022 3:00	785.6
6/2/2022 3:00	6/2/2022 4:00	801.8
6/2/2022 4:00	6/2/2022 5:00	810.5
6/2/2022 5:00	6/2/2022 6:00	815.6
6/2/2022 6:00	6/2/2022 7:00	855.3
6/2/2022 7:00	6/2/2022 8:00	981.4
6/2/2022 8:00	6/2/2022 9:00	985.2

Start Time	End Time	ANL_MW
6/2/2022 9:00	6/2/2022 10:00	951.1
6/2/2022 10:00	6/2/2022 11:00	918.5
6/2/2022 11:00	6/2/2022 12:00	872.0
6/2/2022 12:00	6/2/2022 13:00	816.8
6/2/2022 13:00	6/2/2022 14:00	812.3
6/2/2022 14:00	6/2/2022 15:00	813.5
6/2/2022 15:00	6/2/2022 16:00	814.2
6/2/2022 16:00	6/2/2022 17:00	836.6
6/2/2022 17:00	6/2/2022 18:00	877.9
6/2/2022 18:00	6/2/2022 19:00	898.9
6/2/2022 19:00	6/2/2022 20:00	974.1
6/2/2022 20:00	6/2/2022 21:00	1032.0
6/2/2022 21:00	6/2/2022 22:00	1016.6
6/2/2022 22:00	6/2/2022 23:00	974.0
6/2/2022 23:00	6/3/2022 0:00	974.8
6/3/2022 0:00	6/3/2022 1:00	935.9
6/3/2022 1:00	6/3/2022 2:00	906.2
6/3/2022 2:00	6/3/2022 3:00	893.4
6/3/2022 3:00	6/3/2022 4:00	894.6
6/3/2022 4:00	6/3/2022 5:00	902.4
6/3/2022 5:00	6/3/2022 6:00	938.7
6/3/2022 6:00	6/3/2022 7:00	1043.5
6/3/2022 7:00	6/3/2022 8:00	1079.6
6/3/2022 8:00	6/3/2022 9:00	1116.3
6/3/2022 9:00	6/3/2022 10:00	1130.5
6/3/2022 10:00	6/3/2022 11:00	1119.5
6/3/2022 11:00	6/3/2022 12:00	1064.5
6/3/2022 12:00	6/3/2022 13:00	1053.4
6/3/2022 13:00	6/3/2022 14:00	1073.6
6/3/2022 14:00	6/3/2022 15:00	1111.7
6/3/2022 15:00	6/3/2022 16:00	1130.5
6/3/2022 16:00	6/3/2022 17:00	1148.3
6/3/2022 17:00	6/3/2022 18:00	1160.6
6/3/2022 18:00	6/3/2022 19:00	1148.7
6/3/2022 19:00	6/3/2022 20:00	1147.3
6/3/2022 20:00	6/3/2022 21:00	1145.1
6/3/2022 21:00	6/3/2022 22:00	1131.7
6/3/2022 22:00	6/3/2022 23:00	1088.6
6/3/2022 23:00	6/4/2022 0:00	1038.4
6/4/2022 0:00	6/4/2022 1:00	982.8
6/4/2022 1:00	6/4/2022 2:00	952.9
6/4/2022 2:00	6/4/2022 3:00	929.6
6/4/2022 3:00	6/4/2022 4:00	927.5
6/4/2022 4:00	6/4/2022 5:00	935.9
6/4/2022 5:00	6/4/2022 6:00	950.0
6/4/2022 6:00	6/4/2022 7:00	987.2
6/4/2022 7:00	6/4/2022 8:00	1054.1
6/4/2022 8:00	6/4/2022 9:00	1091.0
6/4/2022 9:00	6/4/2022 10:00	1054.6
6/4/2022 10:00	6/4/2022 11:00	1051.4
6/4/2022 11:00	6/4/2022 12:00	1085.4
6/4/2022 12:00	6/4/2022 13:00	1070.2
6/4/2022 13:00	6/4/2022 14:00	1041.8
6/4/2022 14:00	6/4/2022 15:00	1096.2
6/4/2022 15:00	6/4/2022 16:00	1101.5
6/4/2022 16:00	6/4/2022 17:00	1130.0
6/4/2022 17:00	6/4/2022 18:00	1085.1
6/4/2022 18:00	6/4/2022 19:00	1072.3
6/4/2022 19:00	6/4/2022 20:00	1057.0
6/4/2022 20:00	6/4/2022 21:00	1041.6
6/4/2022 21:00	6/4/2022 22:00	1031.9
6/4/2022 22:00	6/4/2022 23:00	976.4
6/4/2022 23:00	6/5/2022 0:00	905.1
6/5/2022 0:00	6/5/2022 1:00	866.5
6/5/2022 1:00	6/5/2022 2:00	905.9
6/5/2022 2:00	6/5/2022 3:00	894.5
6/5/2022 3:00	6/5/2022 4:00	900.4
6/5/2022 4:00	6/5/2022 5:00	901.4
6/5/2022 5:00	6/5/2022 6:00	911.4
6/5/2022 6:00	6/5/2022 7:00	869.7

Start Time	End Time	ANL_MW
6/5/2022 7:00	6/5/2022 8:00	938.4
6/5/2022 8:00	6/5/2022 9:00	1015.6
6/5/2022 9:00	6/5/2022 10:00	1084.8
6/5/2022 10:00	6/5/2022 11:00	1110.2
6/5/2022 11:00	6/5/2022 12:00	1106.6
6/5/2022 12:00	6/5/2022 13:00	1094.9
6/5/2022 13:00	6/5/2022 14:00	1079.4
6/5/2022 14:00	6/5/2022 15:00	1063.5
6/5/2022 15:00	6/5/2022 16:00	1075.1
6/5/2022 16:00	6/5/2022 17:00	1118.5
6/5/2022 17:00	6/5/2022 18:00	1146.4
6/5/2022 18:00	6/5/2022 19:00	1126.9
6/5/2022 19:00	6/5/2022 20:00	1125.7
6/5/2022 20:00	6/5/2022 21:00	1110.3
6/5/2022 21:00	6/5/2022 22:00	1093.1
6/5/2022 22:00	6/5/2022 23:00	1063.1
6/5/2022 23:00	6/6/2022 0:00	995.8
6/6/2022 0:00	6/6/2022 1:00	937.5
6/6/2022 1:00	6/6/2022 2:00	918.0
6/6/2022 2:00	6/6/2022 3:00	911.2
6/6/2022 3:00	6/6/2022 4:00	910.0
6/6/2022 4:00	6/6/2022 5:00	916.5
6/6/2022 5:00	6/6/2022 6:00	964.7
6/6/2022 6:00	6/6/2022 7:00	1014.7
6/6/2022 7:00	6/6/2022 8:00	1134.2
6/6/2022 8:00	6/6/2022 9:00	1179.6
6/6/2022 9:00	6/6/2022 10:00	1179.2
6/6/2022 10:00	6/6/2022 11:00	1178.8
6/6/2022 11:00	6/6/2022 12:00	1168.6
6/6/2022 12:00	6/6/2022 13:00	1131.8
6/6/2022 13:00	6/6/2022 14:00	1100.9
6/6/2022 14:00	6/6/2022 15:00	1043.4
6/6/2022 15:00	6/6/2022 16:00	1039.0
6/6/2022 16:00	6/6/2022 17:00	1060.2
6/6/2022 17:00	6/6/2022 18:00	1058.0
6/6/2022 18:00	6/6/2022 19:00	1041.0
6/6/2022 19:00	6/6/2022 20:00	1032.0
6/6/2022 20:00	6/6/2022 21:00	1051.2
6/6/2022 21:00	6/6/2022 22:00	1034.6
6/6/2022 22:00	6/6/2022 23:00	940.7
6/6/2022 23:00	6/7/2022 0:00	924.8
6/7/2022 0:00	6/7/2022 1:00	914.8
6/7/2022 1:00	6/7/2022 2:00	876.3
6/7/2022 2:00	6/7/2022 3:00	849.2
6/7/2022 3:00	6/7/2022 4:00	836.3
6/7/2022 4:00	6/7/2022 5:00	831.3
6/7/2022 5:00	6/7/2022 6:00	875.2
6/7/2022 6:00	6/7/2022 7:00	919.2
6/7/2022 7:00	6/7/2022 8:00	1075.7
6/7/2022 8:00	6/7/2022 9:00	1122.0
6/7/2022 9:00	6/7/2022 10:00	1119.4
6/7/2022 10:00	6/7/2022 11:00	1123.5
6/7/2022 11:00	6/7/2022 12:00	1120.6
6/7/2022 12:00	6/7/2022 13:00	1107.2
6/7/2022 13:00	6/7/2022 14:00	1079.3
6/7/2022 14:00	6/7/2022 15:00	1060.7
6/7/2022 15:00	6/7/2022 16:00	1064.2
6/7/2022 16:00	6/7/2022 17:00	1091.9
6/7/2022 17:00	6/7/2022 18:00	1121.1
6/7/2022 18:00	6/7/2022 19:00	1119.6
6/7/2022 19:00	6/7/2022 20:00	1077.6
6/7/2022 20:00	6/7/2022 21:00	1088.7
6/7/2022 21:00	6/7/2022 22:00	1092.9
6/7/2022 22:00	6/7/2022 23:00	1073.4
6/7/2022 23:00	6/8/2022 0:00	1009.6
6/8/2022 0:00	6/8/2022 1:00	925.9
6/8/2022 1:00	6/8/2022 2:00	877.7
6/8/2022 2:00	6/8/2022 3:00	852.8
6/8/2022 3:00	6/8/2022 4:00	862.4
6/8/2022 4:00	6/8/2022 5:00	852.0

Start Time	End Time	ANL_MW
6/8/2022 5:00	6/8/2022 6:00	835.0
6/8/2022 6:00	6/8/2022 7:00	885.3
6/8/2022 7:00	6/8/2022 8:00	998.0
6/8/2022 8:00	6/8/2022 9:00	1061.1
6/8/2022 9:00	6/8/2022 10:00	1084.6
6/8/2022 10:00	6/8/2022 11:00	1108.3
6/8/2022 11:00	6/8/2022 12:00	1098.5
6/8/2022 12:00	6/8/2022 13:00	1080.7
6/8/2022 13:00	6/8/2022 14:00	1091.4
6/8/2022 14:00	6/8/2022 15:00	1043.9
6/8/2022 15:00	6/8/2022 16:00	1000.7
6/8/2022 16:00	6/8/2022 17:00	1007.1
6/8/2022 17:00	6/8/2022 18:00	987.9
6/8/2022 18:00	6/8/2022 19:00	965.7
6/8/2022 19:00	6/8/2022 20:00	903.6
6/8/2022 20:00	6/8/2022 21:00	859.2
6/8/2022 21:00	6/8/2022 22:00	815.5
6/8/2022 22:00	6/8/2022 23:00	790.5
6/8/2022 23:00	6/9/2022 0:00	771.7
6/9/2022 0:00	6/9/2022 1:00	732.5
6/9/2022 1:00	6/9/2022 2:00	742.6
6/9/2022 2:00	6/9/2022 3:00	775.4
6/9/2022 3:00	6/9/2022 4:00	779.3
6/9/2022 4:00	6/9/2022 5:00	786.4
6/9/2022 5:00	6/9/2022 6:00	783.0
6/9/2022 6:00	6/9/2022 7:00	858.0
6/9/2022 7:00	6/9/2022 8:00	1001.6
6/9/2022 8:00	6/9/2022 9:00	1084.3
6/9/2022 9:00	6/9/2022 10:00	1117.1
6/9/2022 10:00	6/9/2022 11:00	1121.3
6/9/2022 11:00	6/9/2022 12:00	1137.8
6/9/2022 12:00	6/9/2022 13:00	1136.9
6/9/2022 13:00	6/9/2022 14:00	1117.0
6/9/2022 14:00	6/9/2022 15:00	1086.6
6/9/2022 15:00	6/9/2022 16:00	1089.7
6/9/2022 16:00	6/9/2022 17:00	1111.3
6/9/2022 17:00	6/9/2022 18:00	1072.7
6/9/2022 18:00	6/9/2022 19:00	1013.9
6/9/2022 19:00	6/9/2022 20:00	995.1
6/9/2022 20:00	6/9/2022 21:00	945.6
6/9/2022 21:00	6/9/2022 22:00	893.4
6/9/2022 22:00	6/9/2022 23:00	825.6
6/9/2022 23:00	6/10/2022 0:00	742.3
6/10/2022 0:00	6/10/2022 1:00	620.7
6/10/2022 1:00	6/10/2022 2:00	606.4
6/10/2022 2:00	6/10/2022 3:00	624.7
6/10/2022 3:00	6/10/2022 4:00	607.6
6/10/2022 4:00	6/10/2022 5:00	624.8
6/10/2022 5:00	6/10/2022 6:00	651.7
6/10/2022 6:00	6/10/2022 7:00	716.6
6/10/2022 7:00	6/10/2022 8:00	832.4
6/10/2022 8:00	6/10/2022 9:00	838.1
6/10/2022 9:00	6/10/2022 10:00	882.0
6/10/2022 10:00	6/10/2022 11:00	898.2
6/10/2022 11:00	6/10/2022 12:00	893.0
6/10/2022 12:00	6/10/2022 13:00	888.7
6/10/2022 13:00	6/10/2022 14:00	877.4
6/10/2022 14:00	6/10/2022 15:00	845.2
6/10/2022 15:00	6/10/2022 16:00	849.7
6/10/2022 16:00	6/10/2022 17:00	894.8
6/10/2022 17:00	6/10/2022 18:00	919.2
6/10/2022 18:00	6/10/2022 19:00	900.8
6/10/2022 19:00	6/10/2022 20:00	906.7
6/10/2022 20:00	6/10/2022 21:00	893.0
6/10/2022 21:00	6/10/2022 22:00	810.8
6/10/2022 22:00	6/10/2022 23:00	779.8
6/10/2022 23:00	6/11/2022 0:00	724.4
6/11/2022 0:00	6/11/2022 1:00	621.9
6/11/2022 1:00	6/11/2022 2:00	571.3
6/11/2022 2:00	6/11/2022 3:00	567.5

Start Time	End Time	ANL_MW
6/11/2022 3:00	6/11/2022 4:00	596.7
6/11/2022 4:00	6/11/2022 5:00	632.5
6/11/2022 5:00	6/11/2022 6:00	643.0
6/11/2022 6:00	6/11/2022 7:00	707.8
6/11/2022 7:00	6/11/2022 8:00	835.4
6/11/2022 8:00	6/11/2022 9:00	925.5
6/11/2022 9:00	6/11/2022 10:00	954.7
6/11/2022 10:00	6/11/2022 11:00	950.0
6/11/2022 11:00	6/11/2022 12:00	905.6
6/11/2022 12:00	6/11/2022 13:00	900.0
6/11/2022 13:00	6/11/2022 14:00	875.6
6/11/2022 14:00	6/11/2022 15:00	837.4
6/11/2022 15:00	6/11/2022 16:00	819.0
6/11/2022 16:00	6/11/2022 17:00	832.3
6/11/2022 17:00	6/11/2022 18:00	882.8
6/11/2022 18:00	6/11/2022 19:00	899.0
6/11/2022 19:00	6/11/2022 20:00	915.4
6/11/2022 20:00	6/11/2022 21:00	895.6
6/11/2022 21:00	6/11/2022 22:00	861.5
6/11/2022 22:00	6/11/2022 23:00	795.3
6/11/2022 23:00	6/12/2022 0:00	711.8
6/12/2022 0:00	6/12/2022 1:00	659.1
6/12/2022 1:00	6/12/2022 2:00	617.6
6/12/2022 2:00	6/12/2022 3:00	619.7
6/12/2022 3:00	6/12/2022 4:00	629.6
6/12/2022 4:00	6/12/2022 5:00	614.2
6/12/2022 5:00	6/12/2022 6:00	596.7
6/12/2022 6:00	6/12/2022 7:00	624.9
6/12/2022 7:00	6/12/2022 8:00	749.1
6/12/2022 8:00	6/12/2022 9:00	884.0
6/12/2022 9:00	6/12/2022 10:00	970.4
6/12/2022 10:00	6/12/2022 11:00	1000.4
6/12/2022 11:00	6/12/2022 12:00	1017.1
6/12/2022 12:00	6/12/2022 13:00	1020.1
6/12/2022 13:00	6/12/2022 14:00	1009.9
6/12/2022 14:00	6/12/2022 15:00	1005.5
6/12/2022 15:00	6/12/2022 16:00	1002.5
6/12/2022 16:00	6/12/2022 17:00	1032.6
6/12/2022 17:00	6/12/2022 18:00	1053.2
6/12/2022 18:00	6/12/2022 19:00	1044.1
6/12/2022 19:00	6/12/2022 20:00	1029.9
6/12/2022 20:00	6/12/2022 21:00	999.0
6/12/2022 21:00	6/12/2022 22:00	964.5
6/12/2022 22:00	6/12/2022 23:00	882.2
6/12/2022 23:00	6/13/2022 0:00	799.3
6/13/2022 0:00	6/13/2022 1:00	739.7
6/13/2022 1:00	6/13/2022 2:00	714.6
6/13/2022 2:00	6/13/2022 3:00	690.3
6/13/2022 3:00	6/13/2022 4:00	693.7
6/13/2022 4:00	6/13/2022 5:00	699.8
6/13/2022 5:00	6/13/2022 6:00	735.2
6/13/2022 6:00	6/13/2022 7:00	837.3
6/13/2022 7:00	6/13/2022 8:00	961.9
6/13/2022 8:00	6/13/2022 9:00	1011.5
6/13/2022 9:00	6/13/2022 10:00	1039.8
6/13/2022 10:00	6/13/2022 11:00	1045.1
6/13/2022 11:00	6/13/2022 12:00	1053.8
6/13/2022 12:00	6/13/2022 13:00	1066.3
6/13/2022 13:00	6/13/2022 14:00	1056.9
6/13/2022 14:00	6/13/2022 15:00	1028.3
6/13/2022 15:00	6/13/2022 16:00	1026.0
6/13/2022 16:00	6/13/2022 17:00	1062.2
6/13/2022 17:00	6/13/2022 18:00	1066.8
6/13/2022 18:00	6/13/2022 19:00	1013.2
6/13/2022 19:00	6/13/2022 20:00	989.4
6/13/2022 20:00	6/13/2022 21:00	967.4
6/13/2022 21:00	6/13/2022 22:00	925.0
6/13/2022 22:00	6/13/2022 23:00	835.9
6/13/2022 23:00	6/14/2022 0:00	777.2
6/14/2022 0:00	6/14/2022 1:00	715.7

Start Time	End Time	ANL_MW
6/14/2022 1:00	6/14/2022 2:00	676.7
6/14/2022 2:00	6/14/2022 3:00	652.0
6/14/2022 3:00	6/14/2022 4:00	655.0
6/14/2022 4:00	6/14/2022 5:00	672.0
6/14/2022 5:00	6/14/2022 6:00	709.9
6/14/2022 6:00	6/14/2022 7:00	810.0
6/14/2022 7:00	6/14/2022 8:00	931.6
6/14/2022 8:00	6/14/2022 9:00	981.7
6/14/2022 9:00	6/14/2022 10:00	1004.0
6/14/2022 10:00	6/14/2022 11:00	999.1
6/14/2022 11:00	6/14/2022 12:00	991.3
6/14/2022 12:00	6/14/2022 13:00	997.9
6/14/2022 13:00	6/14/2022 14:00	975.6
6/14/2022 14:00	6/14/2022 15:00	943.3
6/14/2022 15:00	6/14/2022 16:00	938.2
6/14/2022 16:00	6/14/2022 17:00	926.4
6/14/2022 17:00	6/14/2022 18:00	914.2
6/14/2022 18:00	6/14/2022 19:00	862.1
6/14/2022 19:00	6/14/2022 20:00	782.1
6/14/2022 20:00	6/14/2022 21:00	732.0
6/14/2022 21:00	6/14/2022 22:00	699.9
6/14/2022 22:00	6/14/2022 23:00	614.8
6/14/2022 23:00	6/15/2022 0:00	558.3
6/15/2022 0:00	6/15/2022 1:00	535.3
6/15/2022 1:00	6/15/2022 2:00	535.8
6/15/2022 2:00	6/15/2022 3:00	520.9
6/15/2022 3:00	6/15/2022 4:00	530.3
6/15/2022 4:00	6/15/2022 5:00	552.0
6/15/2022 5:00	6/15/2022 6:00	550.9
6/15/2022 6:00	6/15/2022 7:00	619.5
6/15/2022 7:00	6/15/2022 8:00	763.9
6/15/2022 8:00	6/15/2022 9:00	848.7
6/15/2022 9:00	6/15/2022 10:00	854.5
6/15/2022 10:00	6/15/2022 11:00	860.6
6/15/2022 11:00	6/15/2022 12:00	881.8
6/15/2022 12:00	6/15/2022 13:00	890.5
6/15/2022 13:00	6/15/2022 14:00	878.9
6/15/2022 14:00	6/15/2022 15:00	911.9
6/15/2022 15:00	6/15/2022 16:00	941.1
6/15/2022 16:00	6/15/2022 17:00	999.4
6/15/2022 17:00	6/15/2022 18:00	1027.0
6/15/2022 18:00	6/15/2022 19:00	1027.9
6/15/2022 19:00	6/15/2022 20:00	1024.0
6/15/2022 20:00	6/15/2022 21:00	1021.7
6/15/2022 21:00	6/15/2022 22:00	1022.7
6/15/2022 22:00	6/15/2022 23:00	954.9
6/15/2022 23:00	6/16/2022 0:00	877.9
6/16/2022 0:00	6/16/2022 1:00	800.9
6/16/2022 1:00	6/16/2022 2:00	746.9
6/16/2022 2:00	6/16/2022 3:00	705.6
6/16/2022 3:00	6/16/2022 4:00	685.5
6/16/2022 4:00	6/16/2022 5:00	683.5
6/16/2022 5:00	6/16/2022 6:00	679.9
6/16/2022 6:00	6/16/2022 7:00	797.4
6/16/2022 7:00	6/16/2022 8:00	925.0
6/16/2022 8:00	6/16/2022 9:00	999.1
6/16/2022 9:00	6/16/2022 10:00	1033.1
6/16/2022 10:00	6/16/2022 11:00	1034.0
6/16/2022 11:00	6/16/2022 12:00	1041.0
6/16/2022 12:00	6/16/2022 13:00	1024.4
6/16/2022 13:00	6/16/2022 14:00	1008.3
6/16/2022 14:00	6/16/2022 15:00	976.4
6/16/2022 15:00	6/16/2022 16:00	1005.4
6/16/2022 16:00	6/16/2022 17:00	1050.2
6/16/2022 17:00	6/16/2022 18:00	1082.7
6/16/2022 18:00	6/16/2022 19:00	1062.2
6/16/2022 19:00	6/16/2022 20:00	1012.9
6/16/2022 20:00	6/16/2022 21:00	960.4
6/16/2022 21:00	6/16/2022 22:00	903.8
6/16/2022 22:00	6/16/2022 23:00	796.4

Start Time	End Time	ANL_MW
6/16/2022 23:00	6/17/2022 0:00	707.6
6/17/2022 0:00	6/17/2022 1:00	649.0
6/17/2022 1:00	6/17/2022 2:00	574.0
6/17/2022 2:00	6/17/2022 3:00	525.1
6/17/2022 3:00	6/17/2022 4:00	515.9
6/17/2022 4:00	6/17/2022 5:00	493.8
6/17/2022 5:00	6/17/2022 6:00	514.9
6/17/2022 6:00	6/17/2022 7:00	579.9
6/17/2022 7:00	6/17/2022 8:00	663.0
6/17/2022 8:00	6/17/2022 9:00	709.0
6/17/2022 9:00	6/17/2022 10:00	716.6
6/17/2022 10:00	6/17/2022 11:00	731.0
6/17/2022 11:00	6/17/2022 12:00	767.0
6/17/2022 12:00	6/17/2022 13:00	761.4
6/17/2022 13:00	6/17/2022 14:00	740.8
6/17/2022 14:00	6/17/2022 15:00	721.7
6/17/2022 15:00	6/17/2022 16:00	711.9
6/17/2022 16:00	6/17/2022 17:00	734.6
6/17/2022 17:00	6/17/2022 18:00	792.6
6/17/2022 18:00	6/17/2022 19:00	755.3
6/17/2022 19:00	6/17/2022 20:00	724.8
6/17/2022 20:00	6/17/2022 21:00	716.6
6/17/2022 21:00	6/17/2022 22:00	685.7
6/17/2022 22:00	6/17/2022 23:00	629.9
6/17/2022 23:00	6/18/2022 0:00	658.3
6/18/2022 0:00	6/18/2022 1:00	636.8
6/18/2022 1:00	6/18/2022 2:00	603.0
6/18/2022 2:00	6/18/2022 3:00	635.9
6/18/2022 3:00	6/18/2022 4:00	606.5
6/18/2022 4:00	6/18/2022 5:00	592.7
6/18/2022 5:00	6/18/2022 6:00	588.4
6/18/2022 6:00	6/18/2022 7:00	661.5
6/18/2022 7:00	6/18/2022 8:00	726.4
6/18/2022 8:00	6/18/2022 9:00	817.7
6/18/2022 9:00	6/18/2022 10:00	893.4
6/18/2022 10:00	6/18/2022 11:00	948.4
6/18/2022 11:00	6/18/2022 12:00	978.9
6/18/2022 12:00	6/18/2022 13:00	944.8
6/18/2022 13:00	6/18/2022 14:00	891.6
6/18/2022 14:00	6/18/2022 15:00	797.8
6/18/2022 15:00	6/18/2022 16:00	781.8
6/18/2022 16:00	6/18/2022 17:00	808.4
6/18/2022 17:00	6/18/2022 18:00	813.1
6/18/2022 18:00	6/18/2022 19:00	809.7
6/18/2022 19:00	6/18/2022 20:00	818.5
6/18/2022 20:00	6/18/2022 21:00	830.1
6/18/2022 21:00	6/18/2022 22:00	840.2
6/18/2022 22:00	6/18/2022 23:00	801.2
6/18/2022 23:00	6/19/2022 0:00	767.0
6/19/2022 0:00	6/19/2022 1:00	718.2
6/19/2022 1:00	6/19/2022 2:00	662.4
6/19/2022 2:00	6/19/2022 3:00	658.1
6/19/2022 3:00	6/19/2022 4:00	651.7
6/19/2022 4:00	6/19/2022 5:00	641.9
6/19/2022 5:00	6/19/2022 6:00	669.3
6/19/2022 6:00	6/19/2022 7:00	736.6
6/19/2022 7:00	6/19/2022 8:00	764.7
6/19/2022 8:00	6/19/2022 9:00	868.5
6/19/2022 9:00	6/19/2022 10:00	944.1
6/19/2022 10:00	6/19/2022 11:00	964.1
6/19/2022 11:00	6/19/2022 12:00	941.6
6/19/2022 12:00	6/19/2022 13:00	931.1
6/19/2022 13:00	6/19/2022 14:00	886.8
6/19/2022 14:00	6/19/2022 15:00	873.2
6/19/2022 15:00	6/19/2022 16:00	874.4
6/19/2022 16:00	6/19/2022 17:00	897.1
6/19/2022 17:00	6/19/2022 18:00	959.5
6/19/2022 18:00	6/19/2022 19:00	990.4
6/19/2022 19:00	6/19/2022 20:00	1022.0
6/19/2022 20:00	6/19/2022 21:00	1044.3

Start Time	End Time	ANL_MW
6/19/2022 21:00	6/19/2022 22:00	1031.1
6/19/2022 22:00	6/19/2022 23:00	959.3
6/19/2022 23:00	6/20/2022 0:00	867.0
6/20/2022 0:00	6/20/2022 1:00	826.0
6/20/2022 1:00	6/20/2022 2:00	821.1
6/20/2022 2:00	6/20/2022 3:00	832.3
6/20/2022 3:00	6/20/2022 4:00	852.0
6/20/2022 4:00	6/20/2022 5:00	867.6
6/20/2022 5:00	6/20/2022 6:00	888.6
6/20/2022 6:00	6/20/2022 7:00	1004.9
6/20/2022 7:00	6/20/2022 8:00	1064.5
6/20/2022 8:00	6/20/2022 9:00	1120.5
6/20/2022 9:00	6/20/2022 10:00	1149.0
6/20/2022 10:00	6/20/2022 11:00	1117.0
6/20/2022 11:00	6/20/2022 12:00	1121.3
6/20/2022 12:00	6/20/2022 13:00	1091.7
6/20/2022 13:00	6/20/2022 14:00	1064.3
6/20/2022 14:00	6/20/2022 15:00	1040.4
6/20/2022 15:00	6/20/2022 16:00	1052.3
6/20/2022 16:00	6/20/2022 17:00	1088.7
6/20/2022 17:00	6/20/2022 18:00	1104.7
6/20/2022 18:00	6/20/2022 19:00	1078.7
6/20/2022 19:00	6/20/2022 20:00	1057.0
6/20/2022 20:00	6/20/2022 21:00	1074.4
6/20/2022 21:00	6/20/2022 22:00	1069.0
6/20/2022 22:00	6/20/2022 23:00	1031.0
6/20/2022 23:00	6/21/2022 0:00	985.0
6/21/2022 0:00	6/21/2022 1:00	926.8
6/21/2022 1:00	6/21/2022 2:00	886.6
6/21/2022 2:00	6/21/2022 3:00	866.2
6/21/2022 3:00	6/21/2022 4:00	840.5
6/21/2022 4:00	6/21/2022 5:00	874.2
6/21/2022 5:00	6/21/2022 6:00	911.0
6/21/2022 6:00	6/21/2022 7:00	1010.5
6/21/2022 7:00	6/21/2022 8:00	1063.5
6/21/2022 8:00	6/21/2022 9:00	1095.2
6/21/2022 9:00	6/21/2022 10:00	1106.9
6/21/2022 10:00	6/21/2022 11:00	1130.0
6/21/2022 11:00	6/21/2022 12:00	1133.0
6/21/2022 12:00	6/21/2022 13:00	1139.4
6/21/2022 13:00	6/21/2022 14:00	1116.4
6/21/2022 14:00	6/21/2022 15:00	1095.3
6/21/2022 15:00	6/21/2022 16:00	1100.7
6/21/2022 16:00	6/21/2022 17:00	1145.2
6/21/2022 17:00	6/21/2022 18:00	1143.5
6/21/2022 18:00	6/21/2022 19:00	1126.3
6/21/2022 19:00	6/21/2022 20:00	1140.5
6/21/2022 20:00	6/21/2022 21:00	1136.7
6/21/2022 21:00	6/21/2022 22:00	1126.8
6/21/2022 22:00	6/21/2022 23:00	1051.9
6/21/2022 23:00	6/22/2022 0:00	984.5
6/22/2022 0:00	6/22/2022 1:00	954.4
6/22/2022 1:00	6/22/2022 2:00	933.9
6/22/2022 2:00	6/22/2022 3:00	916.1
6/22/2022 3:00	6/22/2022 4:00	906.6
6/22/2022 4:00	6/22/2022 5:00	905.8
6/22/2022 5:00	6/22/2022 6:00	931.3
6/22/2022 6:00	6/22/2022 7:00	969.4
6/22/2022 7:00	6/22/2022 8:00	1070.1
6/22/2022 8:00	6/22/2022 9:00	1105.6
6/22/2022 9:00	6/22/2022 10:00	1112.9
6/22/2022 10:00	6/22/2022 11:00	1114.6
6/22/2022 11:00	6/22/2022 12:00	1094.6
6/22/2022 12:00	6/22/2022 13:00	1069.4
6/22/2022 13:00	6/22/2022 14:00	1019.3
6/22/2022 14:00	6/22/2022 15:00	993.6
6/22/2022 15:00	6/22/2022 16:00	998.5
6/22/2022 16:00	6/22/2022 17:00	1012.6
6/22/2022 17:00	6/22/2022 18:00	1031.2
6/22/2022 18:00	6/22/2022 19:00	1009.9

Start Time	End Time	ANL_MW
6/22/2022 19:00	6/22/2022 20:00	1016.3
6/22/2022 20:00	6/22/2022 21:00	1024.6
6/22/2022 21:00	6/22/2022 22:00	978.3
6/22/2022 22:00	6/22/2022 23:00	944.4
6/22/2022 23:00	6/23/2022 0:00	863.5
6/23/2022 0:00	6/23/2022 1:00	826.7
6/23/2022 1:00	6/23/2022 2:00	827.4
6/23/2022 2:00	6/23/2022 3:00	823.6
6/23/2022 3:00	6/23/2022 4:00	832.0
6/23/2022 4:00	6/23/2022 5:00	854.5
6/23/2022 5:00	6/23/2022 6:00	890.6
6/23/2022 6:00	6/23/2022 7:00	994.6
6/23/2022 7:00	6/23/2022 8:00	1124.0
6/23/2022 8:00	6/23/2022 9:00	1132.1
6/23/2022 9:00	6/23/2022 10:00	1129.5
6/23/2022 10:00	6/23/2022 11:00	1133.8
6/23/2022 11:00	6/23/2022 12:00	1144.1
6/23/2022 12:00	6/23/2022 13:00	1145.8
6/23/2022 13:00	6/23/2022 14:00	1130.5
6/23/2022 14:00	6/23/2022 15:00	1108.2
6/23/2022 15:00	6/23/2022 16:00	1111.8
6/23/2022 16:00	6/23/2022 17:00	1132.2
6/23/2022 17:00	6/23/2022 18:00	1165.0
6/23/2022 18:00	6/23/2022 19:00	1140.3
6/23/2022 19:00	6/23/2022 20:00	1121.7
6/23/2022 20:00	6/23/2022 21:00	1072.9
6/23/2022 21:00	6/23/2022 22:00	1015.5
6/23/2022 22:00	6/23/2022 23:00	908.2
6/23/2022 23:00	6/24/2022 0:00	874.4
6/24/2022 0:00	6/24/2022 1:00	815.9
6/24/2022 1:00	6/24/2022 2:00	710.3
6/24/2022 2:00	6/24/2022 3:00	648.1
6/24/2022 3:00	6/24/2022 4:00	644.9
6/24/2022 4:00	6/24/2022 5:00	673.2
6/24/2022 5:00	6/24/2022 6:00	698.2
6/24/2022 6:00	6/24/2022 7:00	792.3
6/24/2022 7:00	6/24/2022 8:00	935.5
6/24/2022 8:00	6/24/2022 9:00	996.5
6/24/2022 9:00	6/24/2022 10:00	961.6
6/24/2022 10:00	6/24/2022 11:00	978.2
6/24/2022 11:00	6/24/2022 12:00	987.1
6/24/2022 12:00	6/24/2022 13:00	972.1
6/24/2022 13:00	6/24/2022 14:00	947.2
6/24/2022 14:00	6/24/2022 15:00	942.0
6/24/2022 15:00	6/24/2022 16:00	954.8
6/24/2022 16:00	6/24/2022 17:00	957.1
6/24/2022 17:00	6/24/2022 18:00	984.0
6/24/2022 18:00	6/24/2022 19:00	951.0
6/24/2022 19:00	6/24/2022 20:00	947.3
6/24/2022 20:00	6/24/2022 21:00	943.3
6/24/2022 21:00	6/24/2022 22:00	935.9
6/24/2022 22:00	6/24/2022 23:00	908.3
6/24/2022 23:00	6/25/2022 0:00	893.9
6/25/2022 0:00	6/25/2022 1:00	851.9
6/25/2022 1:00	6/25/2022 2:00	837.9
6/25/2022 2:00	6/25/2022 3:00	839.3
6/25/2022 3:00	6/25/2022 4:00	847.0
6/25/2022 4:00	6/25/2022 5:00	841.8
6/25/2022 5:00	6/25/2022 6:00	843.9
6/25/2022 6:00	6/25/2022 7:00	882.1
6/25/2022 7:00	6/25/2022 8:00	964.4
6/25/2022 8:00	6/25/2022 9:00	1069.7
6/25/2022 9:00	6/25/2022 10:00	1071.9
6/25/2022 10:00	6/25/2022 11:00	1099.2
6/25/2022 11:00	6/25/2022 12:00	1131.7
6/25/2022 12:00	6/25/2022 13:00	1141.4
6/25/2022 13:00	6/25/2022 14:00	1200.6
6/25/2022 14:00	6/25/2022 15:00	1184.7
6/25/2022 15:00	6/25/2022 16:00	1184.2
6/25/2022 16:00	6/25/2022 17:00	1207.0

Start Time	End Time	ANL_MW
6/25/2022 17:00	6/25/2022 18:00	1172.4
6/25/2022 18:00	6/25/2022 19:00	1157.7
6/25/2022 19:00	6/25/2022 20:00	1149.0
6/25/2022 20:00	6/25/2022 21:00	1182.0
6/25/2022 21:00	6/25/2022 22:00	1168.1
6/25/2022 22:00	6/25/2022 23:00	1127.1
6/25/2022 23:00	6/26/2022 0:00	1057.7
6/26/2022 0:00	6/26/2022 1:00	994.7
6/26/2022 1:00	6/26/2022 2:00	953.2
6/26/2022 2:00	6/26/2022 3:00	929.9
6/26/2022 3:00	6/26/2022 4:00	917.2
6/26/2022 4:00	6/26/2022 5:00	906.8
6/26/2022 5:00	6/26/2022 6:00	905.7
6/26/2022 6:00	6/26/2022 7:00	925.5
6/26/2022 7:00	6/26/2022 8:00	982.2
6/26/2022 8:00	6/26/2022 9:00	1001.2
6/26/2022 9:00	6/26/2022 10:00	1077.3
6/26/2022 10:00	6/26/2022 11:00	1124.8
6/26/2022 11:00	6/26/2022 12:00	1156.1
6/26/2022 12:00	6/26/2022 13:00	1172.7
6/26/2022 13:00	6/26/2022 14:00	1155.1
6/26/2022 14:00	6/26/2022 15:00	1123.8
6/26/2022 15:00	6/26/2022 16:00	1106.8
6/26/2022 16:00	6/26/2022 17:00	1131.8
6/26/2022 17:00	6/26/2022 18:00	1150.7
6/26/2022 18:00	6/26/2022 19:00	1127.0
6/26/2022 19:00	6/26/2022 20:00	1057.8
6/26/2022 20:00	6/26/2022 21:00	982.4
6/26/2022 21:00	6/26/2022 22:00	955.5
6/26/2022 22:00	6/26/2022 23:00	951.6
6/26/2022 23:00	6/27/2022 0:00	865.2
6/27/2022 0:00	6/27/2022 1:00	784.8
6/27/2022 1:00	6/27/2022 2:00	738.0
6/27/2022 2:00	6/27/2022 3:00	745.4
6/27/2022 3:00	6/27/2022 4:00	734.5
6/27/2022 4:00	6/27/2022 5:00	762.3
6/27/2022 5:00	6/27/2022 6:00	782.0
6/27/2022 6:00	6/27/2022 7:00	872.3
6/27/2022 7:00	6/27/2022 8:00	960.7
6/27/2022 8:00	6/27/2022 9:00	947.4
6/27/2022 9:00	6/27/2022 10:00	927.6
6/27/2022 10:00	6/27/2022 11:00	922.9
6/27/2022 11:00	6/27/2022 12:00	917.4
6/27/2022 12:00	6/27/2022 13:00	899.3
6/27/2022 13:00	6/27/2022 14:00	877.7
6/27/2022 14:00	6/27/2022 15:00	869.9
6/27/2022 15:00	6/27/2022 16:00	896.1
6/27/2022 16:00	6/27/2022 17:00	871.2
6/27/2022 17:00	6/27/2022 18:00	867.4
6/27/2022 18:00	6/27/2022 19:00	836.2
6/27/2022 19:00	6/27/2022 20:00	830.7
6/27/2022 20:00	6/27/2022 21:00	848.7
6/27/2022 21:00	6/27/2022 22:00	816.6
6/27/2022 22:00	6/27/2022 23:00	716.4
6/27/2022 23:00	6/28/2022 0:00	643.6
6/28/2022 0:00	6/28/2022 1:00	572.9
6/28/2022 1:00	6/28/2022 2:00	529.4
6/28/2022 2:00	6/28/2022 3:00	515.8
6/28/2022 3:00	6/28/2022 4:00	545.1
6/28/2022 4:00	6/28/2022 5:00	613.2
6/28/2022 5:00	6/28/2022 6:00	627.3
6/28/2022 6:00	6/28/2022 7:00	731.8
6/28/2022 7:00	6/28/2022 8:00	875.8
6/28/2022 8:00	6/28/2022 9:00	995.5
6/28/2022 9:00	6/28/2022 10:00	1047.6
6/28/2022 10:00	6/28/2022 11:00	1058.7
6/28/2022 11:00	6/28/2022 12:00	1064.4
6/28/2022 12:00	6/28/2022 13:00	1080.6
6/28/2022 13:00	6/28/2022 14:00	1085.6
6/28/2022 14:00	6/28/2022 15:00	1079.0

Start Time	End Time	ANL_MW
6/28/2022 15:00	6/28/2022 16:00	1102.1
6/28/2022 16:00	6/28/2022 17:00	1066.0
6/28/2022 17:00	6/28/2022 18:00	1110.1
6/28/2022 18:00	6/28/2022 19:00	1102.2
6/28/2022 19:00	6/28/2022 20:00	1106.2
6/28/2022 20:00	6/28/2022 21:00	1069.9
6/28/2022 21:00	6/28/2022 22:00	1025.0
6/28/2022 22:00	6/28/2022 23:00	949.5
6/28/2022 23:00	6/29/2022 0:00	860.2
6/29/2022 0:00	6/29/2022 1:00	823.0
6/29/2022 1:00	6/29/2022 2:00	814.4
6/29/2022 2:00	6/29/2022 3:00	814.6
6/29/2022 3:00	6/29/2022 4:00	792.5
6/29/2022 4:00	6/29/2022 5:00	864.3
6/29/2022 5:00	6/29/2022 6:00	901.4
6/29/2022 6:00	6/29/2022 7:00	931.1
6/29/2022 7:00	6/29/2022 8:00	1064.9
6/29/2022 8:00	6/29/2022 9:00	1121.3
6/29/2022 9:00	6/29/2022 10:00	1136.8
6/29/2022 10:00	6/29/2022 11:00	1125.1
6/29/2022 11:00	6/29/2022 12:00	1132.0
6/29/2022 12:00	6/29/2022 13:00	1135.1
6/29/2022 13:00	6/29/2022 14:00	1132.3
6/29/2022 14:00	6/29/2022 15:00	1120.5
6/29/2022 15:00	6/29/2022 16:00	1114.8
6/29/2022 16:00	6/29/2022 17:00	1107.5
6/29/2022 17:00	6/29/2022 18:00	1113.9
6/29/2022 18:00	6/29/2022 19:00	1109.5
6/29/2022 19:00	6/29/2022 20:00	1073.5
6/29/2022 20:00	6/29/2022 21:00	1047.7
6/29/2022 21:00	6/29/2022 22:00	1032.6
6/29/2022 22:00	6/29/2022 23:00	1010.9
6/29/2022 23:00	6/30/2022 0:00	922.1
6/30/2022 0:00	6/30/2022 1:00	818.6
6/30/2022 1:00	6/30/2022 2:00	808.0
6/30/2022 2:00	6/30/2022 3:00	820.6
6/30/2022 3:00	6/30/2022 4:00	872.5
6/30/2022 4:00	6/30/2022 5:00	885.4
6/30/2022 5:00	6/30/2022 6:00	911.6
6/30/2022 6:00	6/30/2022 7:00	932.6
6/30/2022 7:00	6/30/2022 8:00	1045.6
6/30/2022 8:00	6/30/2022 9:00	1121.0
6/30/2022 9:00	6/30/2022 10:00	1116.2
6/30/2022 10:00	6/30/2022 11:00	1129.6
6/30/2022 11:00	6/30/2022 12:00	1146.9
6/30/2022 12:00	6/30/2022 13:00	1154.4
6/30/2022 13:00	6/30/2022 14:00	1137.6
6/30/2022 14:00	6/30/2022 15:00	1102.2
6/30/2022 15:00	6/30/2022 16:00	1097.4
6/30/2022 16:00	6/30/2022 17:00	1103.4
6/30/2022 17:00	6/30/2022 18:00	1085.2
6/30/2022 18:00	6/30/2022 19:00	1070.6
6/30/2022 19:00	6/30/2022 20:00	1067.8
6/30/2022 20:00	6/30/2022 21:00	1082.1
6/30/2022 21:00	6/30/2022 22:00	1063.6
6/30/2022 22:00	6/30/2022 23:00	1002.4
6/30/2022 23:00	7/1/2022 0:00	946.6
7/1/2022 0:00	7/1/2022 1:00	873.2
7/1/2022 1:00	7/1/2022 2:00	874.5
7/1/2022 2:00	7/1/2022 3:00	857.3
7/1/2022 3:00	7/1/2022 4:00	845.3
7/1/2022 4:00	7/1/2022 5:00	821.4
7/1/2022 5:00	7/1/2022 6:00	820.8
7/1/2022 6:00	7/1/2022 7:00	853.4
7/1/2022 7:00	7/1/2022 8:00	942.7
7/1/2022 8:00	7/1/2022 9:00	1054.3
7/1/2022 9:00	7/1/2022 10:00	1066.7
7/1/2022 10:00	7/1/2022 11:00	1100.3
7/1/2022 11:00	7/1/2022 12:00	1107.8
7/1/2022 12:00	7/1/2022 13:00	1083.7

Start Time	End Time	ANL_MW
7/1/2022 13:00	7/1/2022 14:00	1013.1
7/1/2022 14:00	7/1/2022 15:00	946.5
7/1/2022 15:00	7/1/2022 16:00	919.0
7/1/2022 16:00	7/1/2022 17:00	928.0
7/1/2022 17:00	7/1/2022 18:00	935.8
7/1/2022 18:00	7/1/2022 19:00	935.4
7/1/2022 19:00	7/1/2022 20:00	917.5
7/1/2022 20:00	7/1/2022 21:00	815.3
7/1/2022 21:00	7/1/2022 22:00	748.4
7/1/2022 22:00	7/1/2022 23:00	731.5
7/1/2022 23:00	7/2/2022 0:00	682.3
7/2/2022 0:00	7/2/2022 1:00	626.5
7/2/2022 1:00	7/2/2022 2:00	637.9
7/2/2022 2:00	7/2/2022 3:00	691.7
7/2/2022 3:00	7/2/2022 4:00	676.3
7/2/2022 4:00	7/2/2022 5:00	672.4
7/2/2022 5:00	7/2/2022 6:00	643.9
7/2/2022 6:00	7/2/2022 7:00	658.8
7/2/2022 7:00	7/2/2022 8:00	740.0
7/2/2022 8:00	7/2/2022 9:00	833.0
7/2/2022 9:00	7/2/2022 10:00	833.0
7/2/2022 10:00	7/2/2022 11:00	862.2
7/2/2022 11:00	7/2/2022 12:00	858.2
7/2/2022 12:00	7/2/2022 13:00	853.1
7/2/2022 13:00	7/2/2022 14:00	827.4
7/2/2022 14:00	7/2/2022 15:00	847.7
7/2/2022 15:00	7/2/2022 16:00	874.5
7/2/2022 16:00	7/2/2022 17:00	879.2
7/2/2022 17:00	7/2/2022 18:00	873.9
7/2/2022 18:00	7/2/2022 19:00	833.3
7/2/2022 19:00	7/2/2022 20:00	792.5
7/2/2022 20:00	7/2/2022 21:00	777.2
7/2/2022 21:00	7/2/2022 22:00	776.4
7/2/2022 22:00	7/2/2022 23:00	746.9
7/2/2022 23:00	7/3/2022 0:00	683.8
7/3/2022 0:00	7/3/2022 1:00	671.8
7/3/2022 1:00	7/3/2022 2:00	688.2
7/3/2022 2:00	7/3/2022 3:00	690.4
7/3/2022 3:00	7/3/2022 4:00	701.9
7/3/2022 4:00	7/3/2022 5:00	749.4
7/3/2022 5:00	7/3/2022 6:00	787.5
7/3/2022 6:00	7/3/2022 7:00	839.0
7/3/2022 7:00	7/3/2022 8:00	937.6
7/3/2022 8:00	7/3/2022 9:00	1046.0
7/3/2022 9:00	7/3/2022 10:00	1071.9
7/3/2022 10:00	7/3/2022 11:00	1128.1
7/3/2022 11:00	7/3/2022 12:00	1146.3
7/3/2022 12:00	7/3/2022 13:00	1129.7
7/3/2022 13:00	7/3/2022 14:00	1094.4
7/3/2022 14:00	7/3/2022 15:00	1082.1
7/3/2022 15:00	7/3/2022 16:00	1095.1
7/3/2022 16:00	7/3/2022 17:00	1123.5
7/3/2022 17:00	7/3/2022 18:00	1161.9
7/3/2022 18:00	7/3/2022 19:00	1179.3
7/3/2022 19:00	7/3/2022 20:00	1146.7
7/3/2022 20:00	7/3/2022 21:00	1135.2
7/3/2022 21:00	7/3/2022 22:00	1123.4
7/3/2022 22:00	7/3/2022 23:00	1057.8
7/3/2022 23:00	7/4/2022 0:00	998.5
7/4/2022 0:00	7/4/2022 1:00	878.3
7/4/2022 1:00	7/4/2022 2:00	778.0
7/4/2022 2:00	7/4/2022 3:00	747.1
7/4/2022 3:00	7/4/2022 4:00	763.4
7/4/2022 4:00	7/4/2022 5:00	770.1
7/4/2022 5:00	7/4/2022 6:00	773.7
7/4/2022 6:00	7/4/2022 7:00	833.5
7/4/2022 7:00	7/4/2022 8:00	976.4
7/4/2022 8:00	7/4/2022 9:00	1004.5
7/4/2022 9:00	7/4/2022 10:00	1033.0
7/4/2022 10:00	7/4/2022 11:00	1023.6

Start Time	End Time	ANL_MW
7/4/2022 11:00	7/4/2022 12:00	1030.1
7/4/2022 12:00	7/4/2022 13:00	1052.6
7/4/2022 13:00	7/4/2022 14:00	1035.8
7/4/2022 14:00	7/4/2022 15:00	1021.9
7/4/2022 15:00	7/4/2022 16:00	987.2
7/4/2022 16:00	7/4/2022 17:00	985.3
7/4/2022 17:00	7/4/2022 18:00	1024.1
7/4/2022 18:00	7/4/2022 19:00	1022.7
7/4/2022 19:00	7/4/2022 20:00	1032.6
7/4/2022 20:00	7/4/2022 21:00	1025.7
7/4/2022 21:00	7/4/2022 22:00	968.7
7/4/2022 22:00	7/4/2022 23:00	940.3
7/4/2022 23:00	7/5/2022 0:00	857.3
7/5/2022 0:00	7/5/2022 1:00	786.9
7/5/2022 1:00	7/5/2022 2:00	746.0
7/5/2022 2:00	7/5/2022 3:00	734.5
7/5/2022 3:00	7/5/2022 4:00	737.1
7/5/2022 4:00	7/5/2022 5:00	722.7
7/5/2022 5:00	7/5/2022 6:00	753.6
7/5/2022 6:00	7/5/2022 7:00	846.7
7/5/2022 7:00	7/5/2022 8:00	937.1
7/5/2022 8:00	7/5/2022 9:00	1082.1
7/5/2022 9:00	7/5/2022 10:00	1111.9
7/5/2022 10:00	7/5/2022 11:00	1108.5
7/5/2022 11:00	7/5/2022 12:00	1092.1
7/5/2022 12:00	7/5/2022 13:00	1073.7
7/5/2022 13:00	7/5/2022 14:00	1031.3
7/5/2022 14:00	7/5/2022 15:00	999.5
7/5/2022 15:00	7/5/2022 16:00	981.1
7/5/2022 16:00	7/5/2022 17:00	998.2
7/5/2022 17:00	7/5/2022 18:00	1027.1
7/5/2022 18:00	7/5/2022 19:00	1021.3
7/5/2022 19:00	7/5/2022 20:00	1060.2
7/5/2022 20:00	7/5/2022 21:00	1032.8
7/5/2022 21:00	7/5/2022 22:00	995.7
7/5/2022 22:00	7/5/2022 23:00	951.0
7/5/2022 23:00	7/6/2022 0:00	862.8
7/6/2022 0:00	7/6/2022 1:00	823.6
7/6/2022 1:00	7/6/2022 2:00	770.2
7/6/2022 2:00	7/6/2022 3:00	775.2
7/6/2022 3:00	7/6/2022 4:00	767.2
7/6/2022 4:00	7/6/2022 5:00	743.4
7/6/2022 5:00	7/6/2022 6:00	763.5
7/6/2022 6:00	7/6/2022 7:00	830.9
7/6/2022 7:00	7/6/2022 8:00	899.5
7/6/2022 8:00	7/6/2022 9:00	925.0
7/6/2022 9:00	7/6/2022 10:00	967.2
7/6/2022 10:00	7/6/2022 11:00	939.4
7/6/2022 11:00	7/6/2022 12:00	918.1
7/6/2022 12:00	7/6/2022 13:00	911.4
7/6/2022 13:00	7/6/2022 14:00	898.8
7/6/2022 14:00	7/6/2022 15:00	889.2
7/6/2022 15:00	7/6/2022 16:00	918.3
7/6/2022 16:00	7/6/2022 17:00	890.2
7/6/2022 17:00	7/6/2022 18:00	961.3
7/6/2022 18:00	7/6/2022 19:00	912.6
7/6/2022 19:00	7/6/2022 20:00	817.9
7/6/2022 20:00	7/6/2022 21:00	771.0
7/6/2022 21:00	7/6/2022 22:00	718.2
7/6/2022 22:00	7/6/2022 23:00	682.4
7/6/2022 23:00	7/7/2022 0:00	656.5
7/7/2022 0:00	7/7/2022 1:00	593.0
7/7/2022 1:00	7/7/2022 2:00	555.5
7/7/2022 2:00	7/7/2022 3:00	567.5
7/7/2022 3:00	7/7/2022 4:00	586.5
7/7/2022 4:00	7/7/2022 5:00	586.2
7/7/2022 5:00	7/7/2022 6:00	585.3
7/7/2022 6:00	7/7/2022 7:00	641.4
7/7/2022 7:00	7/7/2022 8:00	823.9
7/7/2022 8:00	7/7/2022 9:00	948.1

Start Time	End Time	ANL_MW
7/7/2022 9:00	7/7/2022 10:00	985.4
7/7/2022 10:00	7/7/2022 11:00	997.9
7/7/2022 11:00	7/7/2022 12:00	989.9
7/7/2022 12:00	7/7/2022 13:00	975.4
7/7/2022 13:00	7/7/2022 14:00	975.8
7/7/2022 14:00	7/7/2022 15:00	954.0
7/7/2022 15:00	7/7/2022 16:00	992.4
7/7/2022 16:00	7/7/2022 17:00	1046.4
7/7/2022 17:00	7/7/2022 18:00	1077.4
7/7/2022 18:00	7/7/2022 19:00	1098.9
7/7/2022 19:00	7/7/2022 20:00	1115.4
7/7/2022 20:00	7/7/2022 21:00	1106.1
7/7/2022 21:00	7/7/2022 22:00	1077.1
7/7/2022 22:00	7/7/2022 23:00	995.9
7/7/2022 23:00	7/8/2022 0:00	939.2
7/8/2022 0:00	7/8/2022 1:00	851.3
7/8/2022 1:00	7/8/2022 2:00	767.6
7/8/2022 2:00	7/8/2022 3:00	717.1
7/8/2022 3:00	7/8/2022 4:00	707.8
7/8/2022 4:00	7/8/2022 5:00	725.2
7/8/2022 5:00	7/8/2022 6:00	745.6
7/8/2022 6:00	7/8/2022 7:00	779.5
7/8/2022 7:00	7/8/2022 8:00	881.0
7/8/2022 8:00	7/8/2022 9:00	1015.1
7/8/2022 9:00	7/8/2022 10:00	1064.5
7/8/2022 10:00	7/8/2022 11:00	1053.1
7/8/2022 11:00	7/8/2022 12:00	1024.5
7/8/2022 12:00	7/8/2022 13:00	1023.5
7/8/2022 13:00	7/8/2022 14:00	1045.8
7/8/2022 14:00	7/8/2022 15:00	1032.4
7/8/2022 15:00	7/8/2022 16:00	1025.5
7/8/2022 16:00	7/8/2022 17:00	1006.4
7/8/2022 17:00	7/8/2022 18:00	945.5
7/8/2022 18:00	7/8/2022 19:00	902.6
7/8/2022 19:00	7/8/2022 20:00	891.9
7/8/2022 20:00	7/8/2022 21:00	860.4
7/8/2022 21:00	7/8/2022 22:00	813.2
7/8/2022 22:00	7/8/2022 23:00	731.3
7/8/2022 23:00	7/9/2022 0:00	691.3
7/9/2022 0:00	7/9/2022 1:00	665.7
7/9/2022 1:00	7/9/2022 2:00	634.3
7/9/2022 2:00	7/9/2022 3:00	685.8
7/9/2022 3:00	7/9/2022 4:00	715.4
7/9/2022 4:00	7/9/2022 5:00	749.6
7/9/2022 5:00	7/9/2022 6:00	784.2
7/9/2022 6:00	7/9/2022 7:00	829.0
7/9/2022 7:00	7/9/2022 8:00	922.4
7/9/2022 8:00	7/9/2022 9:00	951.6
7/9/2022 9:00	7/9/2022 10:00	1022.3
7/9/2022 10:00	7/9/2022 11:00	1060.9
7/9/2022 11:00	7/9/2022 12:00	1067.1
7/9/2022 12:00	7/9/2022 13:00	1057.7
7/9/2022 13:00	7/9/2022 14:00	1019.5
7/9/2022 14:00	7/9/2022 15:00	964.2
7/9/2022 15:00	7/9/2022 16:00	948.5
7/9/2022 16:00	7/9/2022 17:00	967.4
7/9/2022 17:00	7/9/2022 18:00	998.8
7/9/2022 18:00	7/9/2022 19:00	1005.0
7/9/2022 19:00	7/9/2022 20:00	1004.4
7/9/2022 20:00	7/9/2022 21:00	1006.8
7/9/2022 21:00	7/9/2022 22:00	991.2
7/9/2022 22:00	7/9/2022 23:00	976.1
7/9/2022 23:00	7/10/2022 0:00	914.8
7/10/2022 0:00	7/10/2022 1:00	849.0
7/10/2022 1:00	7/10/2022 2:00	809.9
7/10/2022 2:00	7/10/2022 3:00	786.9
7/10/2022 3:00	7/10/2022 4:00	697.4
7/10/2022 4:00	7/10/2022 5:00	662.3
7/10/2022 5:00	7/10/2022 6:00	682.2
7/10/2022 6:00	7/10/2022 7:00	698.3

Start Time	End Time	ANL_MW
7/10/2022 7:00	7/10/2022 8:00	794.5
7/10/2022 8:00	7/10/2022 9:00	924.2
7/10/2022 9:00	7/10/2022 10:00	973.1
7/10/2022 10:00	7/10/2022 11:00	947.7
7/10/2022 11:00	7/10/2022 12:00	941.2
7/10/2022 12:00	7/10/2022 13:00	934.0
7/10/2022 13:00	7/10/2022 14:00	920.7
7/10/2022 14:00	7/10/2022 15:00	934.4
7/10/2022 15:00	7/10/2022 16:00	952.2
7/10/2022 16:00	7/10/2022 17:00	1017.8
7/10/2022 17:00	7/10/2022 18:00	1075.9
7/10/2022 18:00	7/10/2022 19:00	1081.6
7/10/2022 19:00	7/10/2022 20:00	1082.4
7/10/2022 20:00	7/10/2022 21:00	1057.8
7/10/2022 21:00	7/10/2022 22:00	1028.7
7/10/2022 22:00	7/10/2022 23:00	915.5
7/10/2022 23:00	7/11/2022 0:00	791.7
7/11/2022 0:00	7/11/2022 1:00	754.4
7/11/2022 1:00	7/11/2022 2:00	696.3
7/11/2022 2:00	7/11/2022 3:00	687.7
7/11/2022 3:00	7/11/2022 4:00	665.4
7/11/2022 4:00	7/11/2022 5:00	643.2
7/11/2022 5:00	7/11/2022 6:00	624.2
7/11/2022 6:00	7/11/2022 7:00	680.6
7/11/2022 7:00	7/11/2022 8:00	809.8
7/11/2022 8:00	7/11/2022 9:00	895.9
7/11/2022 9:00	7/11/2022 10:00	988.7
7/11/2022 10:00	7/11/2022 11:00	977.1
7/11/2022 11:00	7/11/2022 12:00	987.4
7/11/2022 12:00	7/11/2022 13:00	989.1
7/11/2022 13:00	7/11/2022 14:00	974.5
7/11/2022 14:00	7/11/2022 15:00	946.1
7/11/2022 15:00	7/11/2022 16:00	948.2
7/11/2022 16:00	7/11/2022 17:00	983.3
7/11/2022 17:00	7/11/2022 18:00	981.6
7/11/2022 18:00	7/11/2022 19:00	939.9
7/11/2022 19:00	7/11/2022 20:00	909.0
7/11/2022 20:00	7/11/2022 21:00	887.2
7/11/2022 21:00	7/11/2022 22:00	897.2
7/11/2022 22:00	7/11/2022 23:00	820.5
7/11/2022 23:00	7/12/2022 0:00	723.0
7/12/2022 0:00	7/12/2022 1:00	666.1
7/12/2022 1:00	7/12/2022 2:00	625.6
7/12/2022 2:00	7/12/2022 3:00	628.5
7/12/2022 3:00	7/12/2022 4:00	630.9
7/12/2022 4:00	7/12/2022 5:00	643.4
7/12/2022 5:00	7/12/2022 6:00	639.3
7/12/2022 6:00	7/12/2022 7:00	692.4
7/12/2022 7:00	7/12/2022 8:00	842.2
7/12/2022 8:00	7/12/2022 9:00	938.4
7/12/2022 9:00	7/12/2022 10:00	960.7
7/12/2022 10:00	7/12/2022 11:00	872.0
7/12/2022 11:00	7/12/2022 12:00	858.0
7/12/2022 12:00	7/12/2022 13:00	836.0
7/12/2022 13:00	7/12/2022 14:00	798.1
7/12/2022 14:00	7/12/2022 15:00	748.7
7/12/2022 15:00	7/12/2022 16:00	743.2
7/12/2022 16:00	7/12/2022 17:00	775.9
7/12/2022 17:00	7/12/2022 18:00	791.7
7/12/2022 18:00	7/12/2022 19:00	768.9
7/12/2022 19:00	7/12/2022 20:00	757.2
7/12/2022 20:00	7/12/2022 21:00	733.0
7/12/2022 21:00	7/12/2022 22:00	764.2
7/12/2022 22:00	7/12/2022 23:00	690.9
7/12/2022 23:00	7/13/2022 0:00	674.6
7/13/2022 0:00	7/13/2022 1:00	589.9
7/13/2022 1:00	7/13/2022 2:00	553.0
7/13/2022 2:00	7/13/2022 3:00	528.0
7/13/2022 3:00	7/13/2022 4:00	525.3
7/13/2022 4:00	7/13/2022 5:00	447.3

Start Time	End Time	ANL_MW
7/13/2022 5:00	7/13/2022 6:00	485.8
7/13/2022 6:00	7/13/2022 7:00	566.2
7/13/2022 7:00	7/13/2022 8:00	711.1
7/13/2022 8:00	7/13/2022 9:00	831.1
7/13/2022 9:00	7/13/2022 10:00	916.2
7/13/2022 10:00	7/13/2022 11:00	1006.9
7/13/2022 11:00	7/13/2022 12:00	1080.5
7/13/2022 12:00	7/13/2022 13:00	1114.2
7/13/2022 13:00	7/13/2022 14:00	1099.0
7/13/2022 14:00	7/13/2022 15:00	1099.7
7/13/2022 15:00	7/13/2022 16:00	1111.7
7/13/2022 16:00	7/13/2022 17:00	1142.0
7/13/2022 17:00	7/13/2022 18:00	1175.7
7/13/2022 18:00	7/13/2022 19:00	1158.4
7/13/2022 19:00	7/13/2022 20:00	1166.2
7/13/2022 20:00	7/13/2022 21:00	1148.8
7/13/2022 21:00	7/13/2022 22:00	1138.7
7/13/2022 22:00	7/13/2022 23:00	1074.5
7/13/2022 23:00	7/14/2022 0:00	1003.9
7/14/2022 0:00	7/14/2022 1:00	955.0
7/14/2022 1:00	7/14/2022 2:00	915.2
7/14/2022 2:00	7/14/2022 3:00	883.6
7/14/2022 3:00	7/14/2022 4:00	873.6
7/14/2022 4:00	7/14/2022 5:00	884.4
7/14/2022 5:00	7/14/2022 6:00	911.2
7/14/2022 6:00	7/14/2022 7:00	986.4
7/14/2022 7:00	7/14/2022 8:00	1110.3
7/14/2022 8:00	7/14/2022 9:00	1173.9
7/14/2022 9:00	7/14/2022 10:00	1215.7
7/14/2022 10:00	7/14/2022 11:00	1239.5
7/14/2022 11:00	7/14/2022 12:00	1263.3
7/14/2022 12:00	7/14/2022 13:00	1277.2
7/14/2022 13:00	7/14/2022 14:00	1262.1
7/14/2022 14:00	7/14/2022 15:00	1248.6
7/14/2022 15:00	7/14/2022 16:00	1249.0
7/14/2022 16:00	7/14/2022 17:00	1254.8
7/14/2022 17:00	7/14/2022 18:00	1257.0
7/14/2022 18:00	7/14/2022 19:00	1219.5
7/14/2022 19:00	7/14/2022 20:00	1196.7
7/14/2022 20:00	7/14/2022 21:00	1176.0
7/14/2022 21:00	7/14/2022 22:00	1140.9
7/14/2022 22:00	7/14/2022 23:00	1079.9
7/14/2022 23:00	7/15/2022 0:00	988.9
7/15/2022 0:00	7/15/2022 1:00	888.1
7/15/2022 1:00	7/15/2022 2:00	842.3
7/15/2022 2:00	7/15/2022 3:00	840.1
7/15/2022 3:00	7/15/2022 4:00	837.0
7/15/2022 4:00	7/15/2022 5:00	844.4
7/15/2022 5:00	7/15/2022 6:00	881.0
7/15/2022 6:00	7/15/2022 7:00	964.8
7/15/2022 7:00	7/15/2022 8:00	1052.6
7/15/2022 8:00	7/15/2022 9:00	1134.4
7/15/2022 9:00	7/15/2022 10:00	1184.1
7/15/2022 10:00	7/15/2022 11:00	1210.2
7/15/2022 11:00	7/15/2022 12:00	1221.0
7/15/2022 12:00	7/15/2022 13:00	1202.4
7/15/2022 13:00	7/15/2022 14:00	1169.9
7/15/2022 14:00	7/15/2022 15:00	1153.1
7/15/2022 15:00	7/15/2022 16:00	1143.8
7/15/2022 16:00	7/15/2022 17:00	1125.4
7/15/2022 17:00	7/15/2022 18:00	1130.1
7/15/2022 18:00	7/15/2022 19:00	1112.4
7/15/2022 19:00	7/15/2022 20:00	1097.7
7/15/2022 20:00	7/15/2022 21:00	1075.4
7/15/2022 21:00	7/15/2022 22:00	1089.2
7/15/2022 22:00	7/15/2022 23:00	1007.2
7/15/2022 23:00	7/16/2022 0:00	881.7
7/16/2022 0:00	7/16/2022 1:00	800.1
7/16/2022 1:00	7/16/2022 2:00	746.1
7/16/2022 2:00	7/16/2022 3:00	669.1

Start Time	End Time	ANL_MW
7/16/2022 3:00	7/16/2022 4:00	643.8
7/16/2022 4:00	7/16/2022 5:00	619.9
7/16/2022 5:00	7/16/2022 6:00	642.1
7/16/2022 6:00	7/16/2022 7:00	712.3
7/16/2022 7:00	7/16/2022 8:00	816.6
7/16/2022 8:00	7/16/2022 9:00	974.7
7/16/2022 9:00	7/16/2022 10:00	1074.1
7/16/2022 10:00	7/16/2022 11:00	1115.3
7/16/2022 11:00	7/16/2022 12:00	1084.6
7/16/2022 12:00	7/16/2022 13:00	1095.8
7/16/2022 13:00	7/16/2022 14:00	1068.6
7/16/2022 14:00	7/16/2022 15:00	1048.8
7/16/2022 15:00	7/16/2022 16:00	1065.1
7/16/2022 16:00	7/16/2022 17:00	1090.3
7/16/2022 17:00	7/16/2022 18:00	1083.3
7/16/2022 18:00	7/16/2022 19:00	1041.3
7/16/2022 19:00	7/16/2022 20:00	1033.7
7/16/2022 20:00	7/16/2022 21:00	990.0
7/16/2022 21:00	7/16/2022 22:00	934.7
7/16/2022 22:00	7/16/2022 23:00	861.7
7/16/2022 23:00	7/17/2022 0:00	772.7
7/17/2022 0:00	7/17/2022 1:00	717.0
7/17/2022 1:00	7/17/2022 2:00	697.1
7/17/2022 2:00	7/17/2022 3:00	701.5
7/17/2022 3:00	7/17/2022 4:00	701.9
7/17/2022 4:00	7/17/2022 5:00	709.7
7/17/2022 5:00	7/17/2022 6:00	708.9
7/17/2022 6:00	7/17/2022 7:00	720.7
7/17/2022 7:00	7/17/2022 8:00	740.1
7/17/2022 8:00	7/17/2022 9:00	828.3
7/17/2022 9:00	7/17/2022 10:00	912.7
7/17/2022 10:00	7/17/2022 11:00	884.3
7/17/2022 11:00	7/17/2022 12:00	925.1
7/17/2022 12:00	7/17/2022 13:00	984.1
7/17/2022 13:00	7/17/2022 14:00	956.7
7/17/2022 14:00	7/17/2022 15:00	935.4
7/17/2022 15:00	7/17/2022 16:00	929.5
7/17/2022 16:00	7/17/2022 17:00	960.8
7/17/2022 17:00	7/17/2022 18:00	1001.4
7/17/2022 18:00	7/17/2022 19:00	966.1
7/17/2022 19:00	7/17/2022 20:00	998.2
7/17/2022 20:00	7/17/2022 21:00	969.8
7/17/2022 21:00	7/17/2022 22:00	923.2
7/17/2022 22:00	7/17/2022 23:00	882.9
7/17/2022 23:00	7/18/2022 0:00	813.7
7/18/2022 0:00	7/18/2022 1:00	771.7
7/18/2022 1:00	7/18/2022 2:00	735.9
7/18/2022 2:00	7/18/2022 3:00	714.4
7/18/2022 3:00	7/18/2022 4:00	716.5
7/18/2022 4:00	7/18/2022 5:00	724.9
7/18/2022 5:00	7/18/2022 6:00	733.8
7/18/2022 6:00	7/18/2022 7:00	810.9
7/18/2022 7:00	7/18/2022 8:00	910.3
7/18/2022 8:00	7/18/2022 9:00	1031.0
7/18/2022 9:00	7/18/2022 10:00	1101.8
7/18/2022 10:00	7/18/2022 11:00	1133.4
7/18/2022 11:00	7/18/2022 12:00	1134.8
7/18/2022 12:00	7/18/2022 13:00	1134.2
7/18/2022 13:00	7/18/2022 14:00	1094.0
7/18/2022 14:00	7/18/2022 15:00	1049.3
7/18/2022 15:00	7/18/2022 16:00	1029.2
7/18/2022 16:00	7/18/2022 17:00	1051.3
7/18/2022 17:00	7/18/2022 18:00	1057.8
7/18/2022 18:00	7/18/2022 19:00	1060.0
7/18/2022 19:00	7/18/2022 20:00	1053.0
7/18/2022 20:00	7/18/2022 21:00	1013.2
7/18/2022 21:00	7/18/2022 22:00	1001.1
7/18/2022 22:00	7/18/2022 23:00	941.7
7/18/2022 23:00	7/19/2022 0:00	869.5
7/19/2022 0:00	7/19/2022 1:00	783.6

Start Time	End Time	ANL_MW
7/19/2022 1:00	7/19/2022 2:00	709.4
7/19/2022 2:00	7/19/2022 3:00	712.9
7/19/2022 3:00	7/19/2022 4:00	720.2
7/19/2022 4:00	7/19/2022 5:00	720.5
7/19/2022 5:00	7/19/2022 6:00	740.1
7/19/2022 6:00	7/19/2022 7:00	811.7
7/19/2022 7:00	7/19/2022 8:00	865.8
7/19/2022 8:00	7/19/2022 9:00	927.6
7/19/2022 9:00	7/19/2022 10:00	957.0
7/19/2022 10:00	7/19/2022 11:00	938.4
7/19/2022 11:00	7/19/2022 12:00	952.2
7/19/2022 12:00	7/19/2022 13:00	913.5
7/19/2022 13:00	7/19/2022 14:00	866.8
7/19/2022 14:00	7/19/2022 15:00	859.3
7/19/2022 15:00	7/19/2022 16:00	876.2
7/19/2022 16:00	7/19/2022 17:00	930.4
7/19/2022 17:00	7/19/2022 18:00	953.1
7/19/2022 18:00	7/19/2022 19:00	917.2
7/19/2022 19:00	7/19/2022 20:00	842.9
7/19/2022 20:00	7/19/2022 21:00	818.0
7/19/2022 21:00	7/19/2022 22:00	809.6
7/19/2022 22:00	7/19/2022 23:00	755.8
7/19/2022 23:00	7/20/2022 0:00	732.7
7/20/2022 0:00	7/20/2022 1:00	717.2
7/20/2022 1:00	7/20/2022 2:00	695.5
7/20/2022 2:00	7/20/2022 3:00	668.0
7/20/2022 3:00	7/20/2022 4:00	648.9
7/20/2022 4:00	7/20/2022 5:00	646.7
7/20/2022 5:00	7/20/2022 6:00	643.4
7/20/2022 6:00	7/20/2022 7:00	713.0
7/20/2022 7:00	7/20/2022 8:00	782.2
7/20/2022 8:00	7/20/2022 9:00	862.1
7/20/2022 9:00	7/20/2022 10:00	902.7
7/20/2022 10:00	7/20/2022 11:00	907.4
7/20/2022 11:00	7/20/2022 12:00	878.6
7/20/2022 12:00	7/20/2022 13:00	862.7
7/20/2022 13:00	7/20/2022 14:00	854.4
7/20/2022 14:00	7/20/2022 15:00	852.4
7/20/2022 15:00	7/20/2022 16:00	884.0
7/20/2022 16:00	7/20/2022 17:00	933.4
7/20/2022 17:00	7/20/2022 18:00	967.1
7/20/2022 18:00	7/20/2022 19:00	1005.4
7/20/2022 19:00	7/20/2022 20:00	1052.4
7/20/2022 20:00	7/20/2022 21:00	1055.7
7/20/2022 21:00	7/20/2022 22:00	1017.5
7/20/2022 22:00	7/20/2022 23:00	926.7
7/20/2022 23:00	7/21/2022 0:00	852.0
7/21/2022 0:00	7/21/2022 1:00	875.0
7/21/2022 1:00	7/21/2022 2:00	885.4
7/21/2022 2:00	7/21/2022 3:00	878.2
7/21/2022 3:00	7/21/2022 4:00	896.2
7/21/2022 4:00	7/21/2022 5:00	928.0
7/21/2022 5:00	7/21/2022 6:00	957.7
7/21/2022 6:00	7/21/2022 7:00	1042.8
7/21/2022 7:00	7/21/2022 8:00	1163.6
7/21/2022 8:00	7/21/2022 9:00	1177.9
7/21/2022 9:00	7/21/2022 10:00	1230.9
7/21/2022 10:00	7/21/2022 11:00	1234.7
7/21/2022 11:00	7/21/2022 12:00	1253.0
7/21/2022 12:00	7/21/2022 13:00	1259.9
7/21/2022 13:00	7/21/2022 14:00	1253.7
7/21/2022 14:00	7/21/2022 15:00	1241.0
7/21/2022 15:00	7/21/2022 16:00	1243.8
7/21/2022 16:00	7/21/2022 17:00	1254.9
7/21/2022 17:00	7/21/2022 18:00	1261.7
7/21/2022 18:00	7/21/2022 19:00	1194.6
7/21/2022 19:00	7/21/2022 20:00	1124.2
7/21/2022 20:00	7/21/2022 21:00	1095.0
7/21/2022 21:00	7/21/2022 22:00	1044.4
7/21/2022 22:00	7/21/2022 23:00	942.9

Start Time	End Time	ANL_MW
7/21/2022 23:00	7/22/2022 0:00	905.9
7/22/2022 0:00	7/22/2022 1:00	822.3
7/22/2022 1:00	7/22/2022 2:00	755.2
7/22/2022 2:00	7/22/2022 3:00	719.5
7/22/2022 3:00	7/22/2022 4:00	732.0
7/22/2022 4:00	7/22/2022 5:00	736.5
7/22/2022 5:00	7/22/2022 6:00	735.5
7/22/2022 6:00	7/22/2022 7:00	784.8
7/22/2022 7:00	7/22/2022 8:00	890.3
7/22/2022 8:00	7/22/2022 9:00	998.3
7/22/2022 9:00	7/22/2022 10:00	1056.1
7/22/2022 10:00	7/22/2022 11:00	1116.6
7/22/2022 11:00	7/22/2022 12:00	1148.6
7/22/2022 12:00	7/22/2022 13:00	1165.0
7/22/2022 13:00	7/22/2022 14:00	1189.0
7/22/2022 14:00	7/22/2022 15:00	1209.4
7/22/2022 15:00	7/22/2022 16:00	1203.2
7/22/2022 16:00	7/22/2022 17:00	1231.5
7/22/2022 17:00	7/22/2022 18:00	1230.8
7/22/2022 18:00	7/22/2022 19:00	1187.6
7/22/2022 19:00	7/22/2022 20:00	1150.2
7/22/2022 20:00	7/22/2022 21:00	1105.4
7/22/2022 21:00	7/22/2022 22:00	1127.4
7/22/2022 22:00	7/22/2022 23:00	1063.2
7/22/2022 23:00	7/23/2022 0:00	1012.1
7/23/2022 0:00	7/23/2022 1:00	944.3
7/23/2022 1:00	7/23/2022 2:00	911.7
7/23/2022 2:00	7/23/2022 3:00	872.6
7/23/2022 3:00	7/23/2022 4:00	842.5
7/23/2022 4:00	7/23/2022 5:00	858.1
7/23/2022 5:00	7/23/2022 6:00	868.5
7/23/2022 6:00	7/23/2022 7:00	914.5
7/23/2022 7:00	7/23/2022 8:00	1020.8
7/23/2022 8:00	7/23/2022 9:00	1111.4
7/23/2022 9:00	7/23/2022 10:00	1164.1
7/23/2022 10:00	7/23/2022 11:00	1209.1
7/23/2022 11:00	7/23/2022 12:00	1238.1
7/23/2022 12:00	7/23/2022 13:00	1217.7
7/23/2022 13:00	7/23/2022 14:00	1186.7
7/23/2022 14:00	7/23/2022 15:00	1113.2
7/23/2022 15:00	7/23/2022 16:00	1072.4
7/23/2022 16:00	7/23/2022 17:00	1134.1
7/23/2022 17:00	7/23/2022 18:00	1187.1
7/23/2022 18:00	7/23/2022 19:00	1197.4
7/23/2022 19:00	7/23/2022 20:00	1135.3
7/23/2022 20:00	7/23/2022 21:00	1055.5
7/23/2022 21:00	7/23/2022 22:00	1018.4
7/23/2022 22:00	7/23/2022 23:00	987.8
7/23/2022 23:00	7/24/2022 0:00	930.7
7/24/2022 0:00	7/24/2022 1:00	872.7
7/24/2022 1:00	7/24/2022 2:00	845.1
7/24/2022 2:00	7/24/2022 3:00	800.7
7/24/2022 3:00	7/24/2022 4:00	758.8
7/24/2022 4:00	7/24/2022 5:00	761.3
7/24/2022 5:00	7/24/2022 6:00	757.9
7/24/2022 6:00	7/24/2022 7:00	781.9
7/24/2022 7:00	7/24/2022 8:00	876.1
7/24/2022 8:00	7/24/2022 9:00	1044.6
7/24/2022 9:00	7/24/2022 10:00	1142.7
7/24/2022 10:00	7/24/2022 11:00	1207.2
7/24/2022 11:00	7/24/2022 12:00	1217.8
7/24/2022 12:00	7/24/2022 13:00	1174.2
7/24/2022 13:00	7/24/2022 14:00	1128.5
7/24/2022 14:00	7/24/2022 15:00	1123.1
7/24/2022 15:00	7/24/2022 16:00	1142.1
7/24/2022 16:00	7/24/2022 17:00	1163.5
7/24/2022 17:00	7/24/2022 18:00	1208.9
7/24/2022 18:00	7/24/2022 19:00	1195.8
7/24/2022 19:00	7/24/2022 20:00	1158.2
7/24/2022 20:00	7/24/2022 21:00	1096.3

Start Time	End Time	ANL_MW
7/24/2022 21:00	7/24/2022 22:00	1055.2
7/24/2022 22:00	7/24/2022 23:00	973.6
7/24/2022 23:00	7/25/2022 0:00	863.5
7/25/2022 0:00	7/25/2022 1:00	782.9
7/25/2022 1:00	7/25/2022 2:00	688.1
7/25/2022 2:00	7/25/2022 3:00	637.4
7/25/2022 3:00	7/25/2022 4:00	626.6
7/25/2022 4:00	7/25/2022 5:00	642.7
7/25/2022 5:00	7/25/2022 6:00	669.8
7/25/2022 6:00	7/25/2022 7:00	730.9
7/25/2022 7:00	7/25/2022 8:00	840.5
7/25/2022 8:00	7/25/2022 9:00	953.3
7/25/2022 9:00	7/25/2022 10:00	1027.7
7/25/2022 10:00	7/25/2022 11:00	1046.0
7/25/2022 11:00	7/25/2022 12:00	1069.4
7/25/2022 12:00	7/25/2022 13:00	1043.6
7/25/2022 13:00	7/25/2022 14:00	1029.7
7/25/2022 14:00	7/25/2022 15:00	1011.6
7/25/2022 15:00	7/25/2022 16:00	1006.0
7/25/2022 16:00	7/25/2022 17:00	1030.5
7/25/2022 17:00	7/25/2022 18:00	1063.5
7/25/2022 18:00	7/25/2022 19:00	1048.2
7/25/2022 19:00	7/25/2022 20:00	975.9
7/25/2022 20:00	7/25/2022 21:00	938.5
7/25/2022 21:00	7/25/2022 22:00	869.2
7/25/2022 22:00	7/25/2022 23:00	833.6
7/25/2022 23:00	7/26/2022 0:00	708.4
7/26/2022 0:00	7/26/2022 1:00	678.0
7/26/2022 1:00	7/26/2022 2:00	641.3
7/26/2022 2:00	7/26/2022 3:00	672.2
7/26/2022 3:00	7/26/2022 4:00	698.1
7/26/2022 4:00	7/26/2022 5:00	750.0
7/26/2022 5:00	7/26/2022 6:00	803.6
7/26/2022 6:00	7/26/2022 7:00	881.2
7/26/2022 7:00	7/26/2022 8:00	1000.1
7/26/2022 8:00	7/26/2022 9:00	1086.1
7/26/2022 9:00	7/26/2022 10:00	1162.7
7/26/2022 10:00	7/26/2022 11:00	1204.0
7/26/2022 11:00	7/26/2022 12:00	1232.6
7/26/2022 12:00	7/26/2022 13:00	1222.5
7/26/2022 13:00	7/26/2022 14:00	1165.0
7/26/2022 14:00	7/26/2022 15:00	1107.1
7/26/2022 15:00	7/26/2022 16:00	1066.8
7/26/2022 16:00	7/26/2022 17:00	1090.8
7/26/2022 17:00	7/26/2022 18:00	1127.7
7/26/2022 18:00	7/26/2022 19:00	1139.4
7/26/2022 19:00	7/26/2022 20:00	1125.7
7/26/2022 20:00	7/26/2022 21:00	1127.9
7/26/2022 21:00	7/26/2022 22:00	1087.0
7/26/2022 22:00	7/26/2022 23:00	1011.0
7/26/2022 23:00	7/27/2022 0:00	885.1
7/27/2022 0:00	7/27/2022 1:00	815.3
7/27/2022 1:00	7/27/2022 2:00	771.7
7/27/2022 2:00	7/27/2022 3:00	773.2
7/27/2022 3:00	7/27/2022 4:00	775.0
7/27/2022 4:00	7/27/2022 5:00	800.3
7/27/2022 5:00	7/27/2022 6:00	840.3
7/27/2022 6:00	7/27/2022 7:00	912.8
7/27/2022 7:00	7/27/2022 8:00	1072.3
7/27/2022 8:00	7/27/2022 9:00	1151.4
7/27/2022 9:00	7/27/2022 10:00	1202.7
7/27/2022 10:00	7/27/2022 11:00	1216.7
7/27/2022 11:00	7/27/2022 12:00	1208.8
7/27/2022 12:00	7/27/2022 13:00	1197.4
7/27/2022 13:00	7/27/2022 14:00	1176.1
7/27/2022 14:00	7/27/2022 15:00	1137.4
7/27/2022 15:00	7/27/2022 16:00	1137.2
7/27/2022 16:00	7/27/2022 17:00	1161.8
7/27/2022 17:00	7/27/2022 18:00	1188.3
7/27/2022 18:00	7/27/2022 19:00	1175.9

Start Time	End Time	ANL_MW
7/27/2022 19:00	7/27/2022 20:00	1183.7
7/27/2022 20:00	7/27/2022 21:00	1192.7
7/27/2022 21:00	7/27/2022 22:00	1172.0
7/27/2022 22:00	7/27/2022 23:00	1067.9
7/27/2022 23:00	7/28/2022 0:00	966.5
7/28/2022 0:00	7/28/2022 1:00	920.2
7/28/2022 1:00	7/28/2022 2:00	896.6
7/28/2022 2:00	7/28/2022 3:00	867.0
7/28/2022 3:00	7/28/2022 4:00	873.6
7/28/2022 4:00	7/28/2022 5:00	903.7
7/28/2022 5:00	7/28/2022 6:00	943.7
7/28/2022 6:00	7/28/2022 7:00	1028.7
7/28/2022 7:00	7/28/2022 8:00	1141.0
7/28/2022 8:00	7/28/2022 9:00	1201.6
7/28/2022 9:00	7/28/2022 10:00	1215.0
7/28/2022 10:00	7/28/2022 11:00	1233.0
7/28/2022 11:00	7/28/2022 12:00	1236.8
7/28/2022 12:00	7/28/2022 13:00	1245.5
7/28/2022 13:00	7/28/2022 14:00	1248.2
7/28/2022 14:00	7/28/2022 15:00	1242.0
7/28/2022 15:00	7/28/2022 16:00	1238.1
7/28/2022 16:00	7/28/2022 17:00	1258.0
7/28/2022 17:00	7/28/2022 18:00	1269.3
7/28/2022 18:00	7/28/2022 19:00	1230.0
7/28/2022 19:00	7/28/2022 20:00	1177.6
7/28/2022 20:00	7/28/2022 21:00	1159.7
7/28/2022 21:00	7/28/2022 22:00	1163.7
7/28/2022 22:00	7/28/2022 23:00	1086.3
7/28/2022 23:00	7/29/2022 0:00	995.4
7/29/2022 0:00	7/29/2022 1:00	927.3
7/29/2022 1:00	7/29/2022 2:00	896.8
7/29/2022 2:00	7/29/2022 3:00	859.9
7/29/2022 3:00	7/29/2022 4:00	801.3
7/29/2022 4:00	7/29/2022 5:00	732.6
7/29/2022 5:00	7/29/2022 6:00	686.7
7/29/2022 6:00	7/29/2022 7:00	769.8
7/29/2022 7:00	7/29/2022 8:00	835.1
7/29/2022 8:00	7/29/2022 9:00	912.1
7/29/2022 9:00	7/29/2022 10:00	976.6
7/29/2022 10:00	7/29/2022 11:00	964.5
7/29/2022 11:00	7/29/2022 12:00	991.1
7/29/2022 12:00	7/29/2022 13:00	1007.7
7/29/2022 13:00	7/29/2022 14:00	998.8
7/29/2022 14:00	7/29/2022 15:00	998.0
7/29/2022 15:00	7/29/2022 16:00	1011.9
7/29/2022 16:00	7/29/2022 17:00	1085.3
7/29/2022 17:00	7/29/2022 18:00	1139.2
7/29/2022 18:00	7/29/2022 19:00	1125.8
7/29/2022 19:00	7/29/2022 20:00	1078.3
7/29/2022 20:00	7/29/2022 21:00	1045.4
7/29/2022 21:00	7/29/2022 22:00	1036.7
7/29/2022 22:00	7/29/2022 23:00	987.5
7/29/2022 23:00	7/30/2022 0:00	913.2
7/30/2022 0:00	7/30/2022 1:00	847.4
7/30/2022 1:00	7/30/2022 2:00	811.0
7/30/2022 2:00	7/30/2022 3:00	790.8
7/30/2022 3:00	7/30/2022 4:00	787.4
7/30/2022 4:00	7/30/2022 5:00	817.0
7/30/2022 5:00	7/30/2022 6:00	850.5
7/30/2022 6:00	7/30/2022 7:00	895.4
7/30/2022 7:00	7/30/2022 8:00	973.0
7/30/2022 8:00	7/30/2022 9:00	1044.0
7/30/2022 9:00	7/30/2022 10:00	1072.8
7/30/2022 10:00	7/30/2022 11:00	1072.9
7/30/2022 11:00	7/30/2022 12:00	1093.5
7/30/2022 12:00	7/30/2022 13:00	1080.9
7/30/2022 13:00	7/30/2022 14:00	1059.7
7/30/2022 14:00	7/30/2022 15:00	1025.9
7/30/2022 15:00	7/30/2022 16:00	1042.0
7/30/2022 16:00	7/30/2022 17:00	1066.9

Start Time	End Time	ANL_MW
7/30/2022 17:00	7/30/2022 18:00	1082.4
7/30/2022 18:00	7/30/2022 19:00	1062.5
7/30/2022 19:00	7/30/2022 20:00	1054.3
7/30/2022 20:00	7/30/2022 21:00	1028.2
7/30/2022 21:00	7/30/2022 22:00	950.5
7/30/2022 22:00	7/30/2022 23:00	914.8
7/30/2022 23:00	7/31/2022 0:00	868.0
7/31/2022 0:00	7/31/2022 1:00	804.5
7/31/2022 1:00	7/31/2022 2:00	767.5
7/31/2022 2:00	7/31/2022 3:00	749.4
7/31/2022 3:00	7/31/2022 4:00	729.6
7/31/2022 4:00	7/31/2022 5:00	739.4
7/31/2022 5:00	7/31/2022 6:00	740.1
7/31/2022 6:00	7/31/2022 7:00	757.5
7/31/2022 7:00	7/31/2022 8:00	838.8
7/31/2022 8:00	7/31/2022 9:00	966.1
7/31/2022 9:00	7/31/2022 10:00	984.3
7/31/2022 10:00	7/31/2022 11:00	1013.7
7/31/2022 11:00	7/31/2022 12:00	1012.8
7/31/2022 12:00	7/31/2022 13:00	1038.1
7/31/2022 13:00	7/31/2022 14:00	1088.4
7/31/2022 14:00	7/31/2022 15:00	1079.3
7/31/2022 15:00	7/31/2022 16:00	1098.7
7/31/2022 16:00	7/31/2022 17:00	1133.1
7/31/2022 17:00	7/31/2022 18:00	1175.9
7/31/2022 18:00	7/31/2022 19:00	1176.5
7/31/2022 19:00	7/31/2022 20:00	1145.3
7/31/2022 20:00	7/31/2022 21:00	1082.5
7/31/2022 21:00	7/31/2022 22:00	1018.5
7/31/2022 22:00	7/31/2022 23:00	973.9
7/31/2022 23:00	8/1/2022 0:00	910.5
8/1/2022 0:00	8/1/2022 1:00	834.9
8/1/2022 1:00	8/1/2022 2:00	783.4
8/1/2022 2:00	8/1/2022 3:00	745.8
8/1/2022 3:00	8/1/2022 4:00	733.1
8/1/2022 4:00	8/1/2022 5:00	763.6
8/1/2022 5:00	8/1/2022 6:00	801.2
8/1/2022 6:00	8/1/2022 7:00	854.3
8/1/2022 7:00	8/1/2022 8:00	946.7
8/1/2022 8:00	8/1/2022 9:00	1047.5
8/1/2022 9:00	8/1/2022 10:00	1134.4
8/1/2022 10:00	8/1/2022 11:00	1189.7
8/1/2022 11:00	8/1/2022 12:00	1171.2
8/1/2022 12:00	8/1/2022 13:00	1173.2
8/1/2022 13:00	8/1/2022 14:00	1193.4
8/1/2022 14:00	8/1/2022 15:00	1173.9
8/1/2022 15:00	8/1/2022 16:00	1185.6
8/1/2022 16:00	8/1/2022 17:00	1238.8
8/1/2022 17:00	8/1/2022 18:00	1250.2
8/1/2022 18:00	8/1/2022 19:00	1202.5
8/1/2022 19:00	8/1/2022 20:00	1139.0
8/1/2022 20:00	8/1/2022 21:00	1109.3
8/1/2022 21:00	8/1/2022 22:00	1075.4
8/1/2022 22:00	8/1/2022 23:00	959.7
8/1/2022 23:00	8/2/2022 0:00	863.0
8/2/2022 0:00	8/2/2022 1:00	822.8
8/2/2022 1:00	8/2/2022 2:00	792.8
8/2/2022 2:00	8/2/2022 3:00	796.4
8/2/2022 3:00	8/2/2022 4:00	791.3
8/2/2022 4:00	8/2/2022 5:00	820.1
8/2/2022 5:00	8/2/2022 6:00	848.8
8/2/2022 6:00	8/2/2022 7:00	929.5
8/2/2022 7:00	8/2/2022 8:00	972.1
8/2/2022 8:00	8/2/2022 9:00	1042.7
8/2/2022 9:00	8/2/2022 10:00	1101.1
8/2/2022 10:00	8/2/2022 11:00	1149.0
8/2/2022 11:00	8/2/2022 12:00	1126.8
8/2/2022 12:00	8/2/2022 13:00	1119.2
8/2/2022 13:00	8/2/2022 14:00	1112.6
8/2/2022 14:00	8/2/2022 15:00	1086.5

Start Time	End Time	ANL_MW
8/2/2022 15:00	8/2/2022 16:00	1111.0
8/2/2022 16:00	8/2/2022 17:00	1181.9
8/2/2022 17:00	8/2/2022 18:00	1194.0
8/2/2022 18:00	8/2/2022 19:00	1185.5
8/2/2022 19:00	8/2/2022 20:00	1172.6
8/2/2022 20:00	8/2/2022 21:00	1156.1
8/2/2022 21:00	8/2/2022 22:00	1100.6
8/2/2022 22:00	8/2/2022 23:00	1061.1
8/2/2022 23:00	8/3/2022 0:00	983.0
8/3/2022 0:00	8/3/2022 1:00	899.2
8/3/2022 1:00	8/3/2022 2:00	849.4
8/3/2022 2:00	8/3/2022 3:00	836.6
8/3/2022 3:00	8/3/2022 4:00	871.9
8/3/2022 4:00	8/3/2022 5:00	871.3
8/3/2022 5:00	8/3/2022 6:00	902.3
8/3/2022 6:00	8/3/2022 7:00	995.3
8/3/2022 7:00	8/3/2022 8:00	1103.1
8/3/2022 8:00	8/3/2022 9:00	1140.7
8/3/2022 9:00	8/3/2022 10:00	1202.0
8/3/2022 10:00	8/3/2022 11:00	1244.4
8/3/2022 11:00	8/3/2022 12:00	1263.0
8/3/2022 12:00	8/3/2022 13:00	1267.5
8/3/2022 13:00	8/3/2022 14:00	1278.1
8/3/2022 14:00	8/3/2022 15:00	1262.9
8/3/2022 15:00	8/3/2022 16:00	1262.9
8/3/2022 16:00	8/3/2022 17:00	1303.0
8/3/2022 17:00	8/3/2022 18:00	1325.9
8/3/2022 18:00	8/3/2022 19:00	1310.4
8/3/2022 19:00	8/3/2022 20:00	1271.9
8/3/2022 20:00	8/3/2022 21:00	1229.2
8/3/2022 21:00	8/3/2022 22:00	1256.9
8/3/2022 22:00	8/3/2022 23:00	1164.4
8/3/2022 23:00	8/4/2022 0:00	1112.6
8/4/2022 0:00	8/4/2022 1:00	1057.8
8/4/2022 1:00	8/4/2022 2:00	989.4
8/4/2022 2:00	8/4/2022 3:00	936.2
8/4/2022 3:00	8/4/2022 4:00	905.6
8/4/2022 4:00	8/4/2022 5:00	902.1
8/4/2022 5:00	8/4/2022 6:00	936.8
8/4/2022 6:00	8/4/2022 7:00	1012.1
8/4/2022 7:00	8/4/2022 8:00	1068.6
8/4/2022 8:00	8/4/2022 9:00	1109.6
8/4/2022 9:00	8/4/2022 10:00	1169.7
8/4/2022 10:00	8/4/2022 11:00	1197.5
8/4/2022 11:00	8/4/2022 12:00	1193.5
8/4/2022 12:00	8/4/2022 13:00	1180.1
8/4/2022 13:00	8/4/2022 14:00	1170.2
8/4/2022 14:00	8/4/2022 15:00	1165.0
8/4/2022 15:00	8/4/2022 16:00	1159.6
8/4/2022 16:00	8/4/2022 17:00	1200.4
8/4/2022 17:00	8/4/2022 18:00	1207.0
8/4/2022 18:00	8/4/2022 19:00	1175.2
8/4/2022 19:00	8/4/2022 20:00	1138.6
8/4/2022 20:00	8/4/2022 21:00	1080.5
8/4/2022 21:00	8/4/2022 22:00	1056.8
8/4/2022 22:00	8/4/2022 23:00	987.5
8/4/2022 23:00	8/5/2022 0:00	878.8
8/5/2022 0:00	8/5/2022 1:00	841.9
8/5/2022 1:00	8/5/2022 2:00	796.1
8/5/2022 2:00	8/5/2022 3:00	784.2
8/5/2022 3:00	8/5/2022 4:00	773.4
8/5/2022 4:00	8/5/2022 5:00	780.3
8/5/2022 5:00	8/5/2022 6:00	846.0
8/5/2022 6:00	8/5/2022 7:00	933.8
8/5/2022 7:00	8/5/2022 8:00	1023.2
8/5/2022 8:00	8/5/2022 9:00	1134.1
8/5/2022 9:00	8/5/2022 10:00	1149.1
8/5/2022 10:00	8/5/2022 11:00	1155.1
8/5/2022 11:00	8/5/2022 12:00	1159.0
8/5/2022 12:00	8/5/2022 13:00	1122.8

Start Time	End Time	ANL_MW
8/5/2022 13:00	8/5/2022 14:00	1168.5
8/5/2022 14:00	8/5/2022 15:00	1214.4
8/5/2022 15:00	8/5/2022 16:00	1256.6
8/5/2022 16:00	8/5/2022 17:00	1277.3
8/5/2022 17:00	8/5/2022 18:00	1302.3
8/5/2022 18:00	8/5/2022 19:00	1258.4
8/5/2022 19:00	8/5/2022 20:00	1225.5
8/5/2022 20:00	8/5/2022 21:00	1212.9
8/5/2022 21:00	8/5/2022 22:00	1241.2
8/5/2022 22:00	8/5/2022 23:00	1177.6
8/5/2022 23:00	8/6/2022 0:00	1112.0
8/6/2022 0:00	8/6/2022 1:00	1097.7
8/6/2022 1:00	8/6/2022 2:00	1053.9
8/6/2022 2:00	8/6/2022 3:00	1019.8
8/6/2022 3:00	8/6/2022 4:00	989.6
8/6/2022 4:00	8/6/2022 5:00	975.5
8/6/2022 5:00	8/6/2022 6:00	999.3
8/6/2022 6:00	8/6/2022 7:00	1021.3
8/6/2022 7:00	8/6/2022 8:00	1107.7
8/6/2022 8:00	8/6/2022 9:00	1147.3
8/6/2022 9:00	8/6/2022 10:00	1230.8
8/6/2022 10:00	8/6/2022 11:00	1228.8
8/6/2022 11:00	8/6/2022 12:00	1244.6
8/6/2022 12:00	8/6/2022 13:00	1253.9
8/6/2022 13:00	8/6/2022 14:00	1238.4
8/6/2022 14:00	8/6/2022 15:00	1212.9
8/6/2022 15:00	8/6/2022 16:00	1211.3
8/6/2022 16:00	8/6/2022 17:00	1236.2
8/6/2022 17:00	8/6/2022 18:00	1222.0
8/6/2022 18:00	8/6/2022 19:00	1171.3
8/6/2022 19:00	8/6/2022 20:00	1116.0
8/6/2022 20:00	8/6/2022 21:00	1098.2
8/6/2022 21:00	8/6/2022 22:00	1054.8
8/6/2022 22:00	8/6/2022 23:00	938.2
8/6/2022 23:00	8/7/2022 0:00	878.5
8/7/2022 0:00	8/7/2022 1:00	855.7
8/7/2022 1:00	8/7/2022 2:00	787.4
8/7/2022 2:00	8/7/2022 3:00	769.4
8/7/2022 3:00	8/7/2022 4:00	738.7
8/7/2022 4:00	8/7/2022 5:00	726.5
8/7/2022 5:00	8/7/2022 6:00	739.5
8/7/2022 6:00	8/7/2022 7:00	755.8
8/7/2022 7:00	8/7/2022 8:00	822.0
8/7/2022 8:00	8/7/2022 9:00	909.5
8/7/2022 9:00	8/7/2022 10:00	1008.7
8/7/2022 10:00	8/7/2022 11:00	1083.7
8/7/2022 11:00	8/7/2022 12:00	1107.3
8/7/2022 12:00	8/7/2022 13:00	1120.1
8/7/2022 13:00	8/7/2022 14:00	1032.1
8/7/2022 14:00	8/7/2022 15:00	1022.6
8/7/2022 15:00	8/7/2022 16:00	1004.0
8/7/2022 16:00	8/7/2022 17:00	1038.1
8/7/2022 17:00	8/7/2022 18:00	1056.5
8/7/2022 18:00	8/7/2022 19:00	1046.7
8/7/2022 19:00	8/7/2022 20:00	1032.7
8/7/2022 20:00	8/7/2022 21:00	1019.8
8/7/2022 21:00	8/7/2022 22:00	1013.8
8/7/2022 22:00	8/7/2022 23:00	963.9
8/7/2022 23:00	8/8/2022 0:00	974.8
8/8/2022 0:00	8/8/2022 1:00	907.9
8/8/2022 1:00	8/8/2022 2:00	910.7
8/8/2022 2:00	8/8/2022 3:00	914.1
8/8/2022 3:00	8/8/2022 4:00	929.1
8/8/2022 4:00	8/8/2022 5:00	933.0
8/8/2022 5:00	8/8/2022 6:00	929.4
8/8/2022 6:00	8/8/2022 7:00	962.0
8/8/2022 7:00	8/8/2022 8:00	1073.0
8/8/2022 8:00	8/8/2022 9:00	1157.2
8/8/2022 9:00	8/8/2022 10:00	1184.5
8/8/2022 10:00	8/8/2022 11:00	1225.5

Start Time	End Time	ANL_MW
8/8/2022 11:00	8/8/2022 12:00	1246.2
8/8/2022 12:00	8/8/2022 13:00	1249.0
8/8/2022 13:00	8/8/2022 14:00	1260.6
8/8/2022 14:00	8/8/2022 15:00	1228.5
8/8/2022 15:00	8/8/2022 16:00	1212.9
8/8/2022 16:00	8/8/2022 17:00	1216.9
8/8/2022 17:00	8/8/2022 18:00	1210.2
8/8/2022 18:00	8/8/2022 19:00	1156.8
8/8/2022 19:00	8/8/2022 20:00	1101.8
8/8/2022 20:00	8/8/2022 21:00	1062.2
8/8/2022 21:00	8/8/2022 22:00	1011.5
8/8/2022 22:00	8/8/2022 23:00	971.0
8/8/2022 23:00	8/9/2022 0:00	933.5
8/9/2022 0:00	8/9/2022 1:00	895.5
8/9/2022 1:00	8/9/2022 2:00	882.7
8/9/2022 2:00	8/9/2022 3:00	821.9
8/9/2022 3:00	8/9/2022 4:00	802.4
8/9/2022 4:00	8/9/2022 5:00	818.4
8/9/2022 5:00	8/9/2022 6:00	809.7
8/9/2022 6:00	8/9/2022 7:00	822.2
8/9/2022 7:00	8/9/2022 8:00	906.7
8/9/2022 8:00	8/9/2022 9:00	956.0
8/9/2022 9:00	8/9/2022 10:00	1026.0
8/9/2022 10:00	8/9/2022 11:00	1103.7
8/9/2022 11:00	8/9/2022 12:00	1100.0
8/9/2022 12:00	8/9/2022 13:00	1122.1
8/9/2022 13:00	8/9/2022 14:00	1156.3
8/9/2022 14:00	8/9/2022 15:00	1054.5
8/9/2022 15:00	8/9/2022 16:00	1044.2
8/9/2022 16:00	8/9/2022 17:00	1095.2
8/9/2022 17:00	8/9/2022 18:00	1116.4
8/9/2022 18:00	8/9/2022 19:00	1078.7
8/9/2022 19:00	8/9/2022 20:00	1021.1
8/9/2022 20:00	8/9/2022 21:00	1063.0
8/9/2022 21:00	8/9/2022 22:00	1065.0
8/9/2022 22:00	8/9/2022 23:00	1003.7
8/9/2022 23:00	8/10/2022 0:00	944.4
8/10/2022 0:00	8/10/2022 1:00	910.4
8/10/2022 1:00	8/10/2022 2:00	909.6
8/10/2022 2:00	8/10/2022 3:00	884.8
8/10/2022 3:00	8/10/2022 4:00	866.7
8/10/2022 4:00	8/10/2022 5:00	858.3
8/10/2022 5:00	8/10/2022 6:00	900.4
8/10/2022 6:00	8/10/2022 7:00	977.8
8/10/2022 7:00	8/10/2022 8:00	1100.0
8/10/2022 8:00	8/10/2022 9:00	1153.7
8/10/2022 9:00	8/10/2022 10:00	1207.0
8/10/2022 10:00	8/10/2022 11:00	1238.9
8/10/2022 11:00	8/10/2022 12:00	1252.2
8/10/2022 12:00	8/10/2022 13:00	1246.2
8/10/2022 13:00	8/10/2022 14:00	1230.4
8/10/2022 14:00	8/10/2022 15:00	1228.2
8/10/2022 15:00	8/10/2022 16:00	1197.4
8/10/2022 16:00	8/10/2022 17:00	1212.5
8/10/2022 17:00	8/10/2022 18:00	1271.6
8/10/2022 18:00	8/10/2022 19:00	1236.3
8/10/2022 19:00	8/10/2022 20:00	1207.1
8/10/2022 20:00	8/10/2022 21:00	1192.6
8/10/2022 21:00	8/10/2022 22:00	1154.0
8/10/2022 22:00	8/10/2022 23:00	1065.0
8/10/2022 23:00	8/11/2022 0:00	983.2
8/11/2022 0:00	8/11/2022 1:00	981.0
8/11/2022 1:00	8/11/2022 2:00	942.5
8/11/2022 2:00	8/11/2022 3:00	931.6
8/11/2022 3:00	8/11/2022 4:00	915.5
8/11/2022 4:00	8/11/2022 5:00	927.4
8/11/2022 5:00	8/11/2022 6:00	966.4
8/11/2022 6:00	8/11/2022 7:00	998.0
8/11/2022 7:00	8/11/2022 8:00	1069.3
8/11/2022 8:00	8/11/2022 9:00	1141.5

Start Time	End Time	ANL_MW
8/11/2022 9:00	8/11/2022 10:00	1181.8
8/11/2022 10:00	8/11/2022 11:00	1214.3
8/11/2022 11:00	8/11/2022 12:00	1203.2
8/11/2022 12:00	8/11/2022 13:00	1209.9
8/11/2022 13:00	8/11/2022 14:00	1205.4
8/11/2022 14:00	8/11/2022 15:00	1194.9
8/11/2022 15:00	8/11/2022 16:00	1198.2
8/11/2022 16:00	8/11/2022 17:00	1219.4
8/11/2022 17:00	8/11/2022 18:00	1223.1
8/11/2022 18:00	8/11/2022 19:00	1174.3
8/11/2022 19:00	8/11/2022 20:00	1140.2
8/11/2022 20:00	8/11/2022 21:00	1158.4
8/11/2022 21:00	8/11/2022 22:00	1132.4
8/11/2022 22:00	8/11/2022 23:00	1124.1
8/11/2022 23:00	8/12/2022 0:00	1067.8
8/12/2022 0:00	8/12/2022 1:00	999.5
8/12/2022 1:00	8/12/2022 2:00	962.4
8/12/2022 2:00	8/12/2022 3:00	940.7
8/12/2022 3:00	8/12/2022 4:00	936.2
8/12/2022 4:00	8/12/2022 5:00	948.2
8/12/2022 5:00	8/12/2022 6:00	973.9
8/12/2022 6:00	8/12/2022 7:00	1047.6
8/12/2022 7:00	8/12/2022 8:00	1148.9
8/12/2022 8:00	8/12/2022 9:00	1216.8
8/12/2022 9:00	8/12/2022 10:00	1212.0
8/12/2022 10:00	8/12/2022 11:00	1242.1
8/12/2022 11:00	8/12/2022 12:00	1253.7
8/12/2022 12:00	8/12/2022 13:00	1262.8
8/12/2022 13:00	8/12/2022 14:00	1262.9
8/12/2022 14:00	8/12/2022 15:00	1228.0
8/12/2022 15:00	8/12/2022 16:00	1234.7
8/12/2022 16:00	8/12/2022 17:00	1254.7
8/12/2022 17:00	8/12/2022 18:00	1255.4
8/12/2022 18:00	8/12/2022 19:00	1256.1
8/12/2022 19:00	8/12/2022 20:00	1217.8
8/12/2022 20:00	8/12/2022 21:00	1203.7
8/12/2022 21:00	8/12/2022 22:00	1242.1
8/12/2022 22:00	8/12/2022 23:00	1174.2
8/12/2022 23:00	8/13/2022 0:00	1105.7
8/13/2022 0:00	8/13/2022 1:00	1038.9
8/13/2022 1:00	8/13/2022 2:00	1021.7
8/13/2022 2:00	8/13/2022 3:00	991.9
8/13/2022 3:00	8/13/2022 4:00	981.6
8/13/2022 4:00	8/13/2022 5:00	977.9
8/13/2022 5:00	8/13/2022 6:00	981.5
8/13/2022 6:00	8/13/2022 7:00	962.2
8/13/2022 7:00	8/13/2022 8:00	1037.4
8/13/2022 8:00	8/13/2022 9:00	1130.7
8/13/2022 9:00	8/13/2022 10:00	1140.5
8/13/2022 10:00	8/13/2022 11:00	1179.5
8/13/2022 11:00	8/13/2022 12:00	1215.3
8/13/2022 12:00	8/13/2022 13:00	1221.0
8/13/2022 13:00	8/13/2022 14:00	1217.3
8/13/2022 14:00	8/13/2022 15:00	1202.4
8/13/2022 15:00	8/13/2022 16:00	1209.6
8/13/2022 16:00	8/13/2022 17:00	1234.4
8/13/2022 17:00	8/13/2022 18:00	1245.4
8/13/2022 18:00	8/13/2022 19:00	1212.3
8/13/2022 19:00	8/13/2022 20:00	1231.4
8/13/2022 20:00	8/13/2022 21:00	1232.6
8/13/2022 21:00	8/13/2022 22:00	1204.2
8/13/2022 22:00	8/13/2022 23:00	1145.8
8/13/2022 23:00	8/14/2022 0:00	1082.0
8/14/2022 0:00	8/14/2022 1:00	1026.3
8/14/2022 1:00	8/14/2022 2:00	993.0
8/14/2022 2:00	8/14/2022 3:00	968.3
8/14/2022 3:00	8/14/2022 4:00	940.7
8/14/2022 4:00	8/14/2022 5:00	930.8
8/14/2022 5:00	8/14/2022 6:00	912.8
8/14/2022 6:00	8/14/2022 7:00	892.5

Start Time	End Time	ANL_MW
8/14/2022 7:00	8/14/2022 8:00	938.0
8/14/2022 8:00	8/14/2022 9:00	997.9
8/14/2022 9:00	8/14/2022 10:00	1082.7
8/14/2022 10:00	8/14/2022 11:00	1137.1
8/14/2022 11:00	8/14/2022 12:00	1170.2
8/14/2022 12:00	8/14/2022 13:00	1179.9
8/14/2022 13:00	8/14/2022 14:00	1154.4
8/14/2022 14:00	8/14/2022 15:00	1125.7
8/14/2022 15:00	8/14/2022 16:00	1124.3
8/14/2022 16:00	8/14/2022 17:00	1130.3
8/14/2022 17:00	8/14/2022 18:00	1114.0
8/14/2022 18:00	8/14/2022 19:00	1090.5
8/14/2022 19:00	8/14/2022 20:00	1048.9
8/14/2022 20:00	8/14/2022 21:00	1053.0
8/14/2022 21:00	8/14/2022 22:00	1089.6
8/14/2022 22:00	8/14/2022 23:00	1014.7
8/14/2022 23:00	8/15/2022 0:00	956.7
8/15/2022 0:00	8/15/2022 1:00	911.9
8/15/2022 1:00	8/15/2022 2:00	898.9
8/15/2022 2:00	8/15/2022 3:00	886.8
8/15/2022 3:00	8/15/2022 4:00	875.7
8/15/2022 4:00	8/15/2022 5:00	865.4
8/15/2022 5:00	8/15/2022 6:00	885.8
8/15/2022 6:00	8/15/2022 7:00	934.1
8/15/2022 7:00	8/15/2022 8:00	1013.8
8/15/2022 8:00	8/15/2022 9:00	1116.5
8/15/2022 9:00	8/15/2022 10:00	1185.1
8/15/2022 10:00	8/15/2022 11:00	1210.1
8/15/2022 11:00	8/15/2022 12:00	1236.0
8/15/2022 12:00	8/15/2022 13:00	1253.4
8/15/2022 13:00	8/15/2022 14:00	1256.1
8/15/2022 14:00	8/15/2022 15:00	1253.4
8/15/2022 15:00	8/15/2022 16:00	1269.6
8/15/2022 16:00	8/15/2022 17:00	1301.7
8/15/2022 17:00	8/15/2022 18:00	1300.1
8/15/2022 18:00	8/15/2022 19:00	1265.5
8/15/2022 19:00	8/15/2022 20:00	1251.1
8/15/2022 20:00	8/15/2022 21:00	1216.2
8/15/2022 21:00	8/15/2022 22:00	1223.6
8/15/2022 22:00	8/15/2022 23:00	1143.2
8/15/2022 23:00	8/16/2022 0:00	1098.6
8/16/2022 0:00	8/16/2022 1:00	1035.5
8/16/2022 1:00	8/16/2022 2:00	990.7
8/16/2022 2:00	8/16/2022 3:00	965.7
8/16/2022 3:00	8/16/2022 4:00	963.2
8/16/2022 4:00	8/16/2022 5:00	955.2
8/16/2022 5:00	8/16/2022 6:00	974.4
8/16/2022 6:00	8/16/2022 7:00	963.1
8/16/2022 7:00	8/16/2022 8:00	1043.0
8/16/2022 8:00	8/16/2022 9:00	1100.2
8/16/2022 9:00	8/16/2022 10:00	1151.5
8/16/2022 10:00	8/16/2022 11:00	1157.6
8/16/2022 11:00	8/16/2022 12:00	1145.1
8/16/2022 12:00	8/16/2022 13:00	1151.3
8/16/2022 13:00	8/16/2022 14:00	1130.2
8/16/2022 14:00	8/16/2022 15:00	1092.7
8/16/2022 15:00	8/16/2022 16:00	1095.7
8/16/2022 16:00	8/16/2022 17:00	1122.5
8/16/2022 17:00	8/16/2022 18:00	1141.9
8/16/2022 18:00	8/16/2022 19:00	1143.9
8/16/2022 19:00	8/16/2022 20:00	1093.5
8/16/2022 20:00	8/16/2022 21:00	1070.2
8/16/2022 21:00	8/16/2022 22:00	1000.1
8/16/2022 22:00	8/16/2022 23:00	947.2
8/16/2022 23:00	8/17/2022 0:00	862.3
8/17/2022 0:00	8/17/2022 1:00	790.7
8/17/2022 1:00	8/17/2022 2:00	758.6
8/17/2022 2:00	8/17/2022 3:00	748.0
8/17/2022 3:00	8/17/2022 4:00	711.2
8/17/2022 4:00	8/17/2022 5:00	680.3

Start Time	End Time	ANL_MW
8/17/2022 5:00	8/17/2022 6:00	664.5
8/17/2022 6:00	8/17/2022 7:00	698.3
8/17/2022 7:00	8/17/2022 8:00	769.4
8/17/2022 8:00	8/17/2022 9:00	819.6
8/17/2022 9:00	8/17/2022 10:00	847.4
8/17/2022 10:00	8/17/2022 11:00	892.2
8/17/2022 11:00	8/17/2022 12:00	935.8
8/17/2022 12:00	8/17/2022 13:00	976.1
8/17/2022 13:00	8/17/2022 14:00	1001.3
8/17/2022 14:00	8/17/2022 15:00	1030.8
8/17/2022 15:00	8/17/2022 16:00	1028.8
8/17/2022 16:00	8/17/2022 17:00	990.2
8/17/2022 17:00	8/17/2022 18:00	1009.6
8/17/2022 18:00	8/17/2022 19:00	975.5
8/17/2022 19:00	8/17/2022 20:00	929.7
8/17/2022 20:00	8/17/2022 21:00	913.1
8/17/2022 21:00	8/17/2022 22:00	850.5
8/17/2022 22:00	8/17/2022 23:00	729.7
8/17/2022 23:00	8/18/2022 0:00	670.0
8/18/2022 0:00	8/18/2022 1:00	623.4
8/18/2022 1:00	8/18/2022 2:00	610.2
8/18/2022 2:00	8/18/2022 3:00	598.7
8/18/2022 3:00	8/18/2022 4:00	657.8
8/18/2022 4:00	8/18/2022 5:00	671.8
8/18/2022 5:00	8/18/2022 6:00	723.5
8/18/2022 6:00	8/18/2022 7:00	850.7
8/18/2022 7:00	8/18/2022 8:00	934.4
8/18/2022 8:00	8/18/2022 9:00	923.3
8/18/2022 9:00	8/18/2022 10:00	966.5
8/18/2022 10:00	8/18/2022 11:00	995.3
8/18/2022 11:00	8/18/2022 12:00	1008.9
8/18/2022 12:00	8/18/2022 13:00	1007.8
8/18/2022 13:00	8/18/2022 14:00	1004.8
8/18/2022 14:00	8/18/2022 15:00	981.3
8/18/2022 15:00	8/18/2022 16:00	980.6
8/18/2022 16:00	8/18/2022 17:00	1005.2
8/18/2022 17:00	8/18/2022 18:00	1021.9
8/18/2022 18:00	8/18/2022 19:00	1005.1
8/18/2022 19:00	8/18/2022 20:00	1031.3
8/18/2022 20:00	8/18/2022 21:00	1061.1
8/18/2022 21:00	8/18/2022 22:00	997.2
8/18/2022 22:00	8/18/2022 23:00	895.4
8/18/2022 23:00	8/19/2022 0:00	845.2
8/19/2022 0:00	8/19/2022 1:00	787.2
8/19/2022 1:00	8/19/2022 2:00	735.2
8/19/2022 2:00	8/19/2022 3:00	755.2
8/19/2022 3:00	8/19/2022 4:00	720.6
8/19/2022 4:00	8/19/2022 5:00	693.6
8/19/2022 5:00	8/19/2022 6:00	721.2
8/19/2022 6:00	8/19/2022 7:00	787.5
8/19/2022 7:00	8/19/2022 8:00	892.3
8/19/2022 8:00	8/19/2022 9:00	991.4
8/19/2022 9:00	8/19/2022 10:00	1052.3
8/19/2022 10:00	8/19/2022 11:00	1064.8
8/19/2022 11:00	8/19/2022 12:00	1058.7
8/19/2022 12:00	8/19/2022 13:00	1054.9
8/19/2022 13:00	8/19/2022 14:00	1077.4
8/19/2022 14:00	8/19/2022 15:00	1069.2
8/19/2022 15:00	8/19/2022 16:00	1059.7
8/19/2022 16:00	8/19/2022 17:00	1092.9
8/19/2022 17:00	8/19/2022 18:00	1102.9
8/19/2022 18:00	8/19/2022 19:00	1068.3
8/19/2022 19:00	8/19/2022 20:00	1080.0
8/19/2022 20:00	8/19/2022 21:00	1049.7
8/19/2022 21:00	8/19/2022 22:00	981.6
8/19/2022 22:00	8/19/2022 23:00	898.9
8/19/2022 23:00	8/20/2022 0:00	856.9
8/20/2022 0:00	8/20/2022 1:00	814.7
8/20/2022 1:00	8/20/2022 2:00	776.4
8/20/2022 2:00	8/20/2022 3:00	745.4

Start Time	End Time	ANL_MW
8/20/2022 3:00	8/20/2022 4:00	737.6
8/20/2022 4:00	8/20/2022 5:00	753.0
8/20/2022 5:00	8/20/2022 6:00	764.9
8/20/2022 6:00	8/20/2022 7:00	800.8
8/20/2022 7:00	8/20/2022 8:00	900.8
8/20/2022 8:00	8/20/2022 9:00	977.5
8/20/2022 9:00	8/20/2022 10:00	1092.1
8/20/2022 10:00	8/20/2022 11:00	1142.9
8/20/2022 11:00	8/20/2022 12:00	1168.3
8/20/2022 12:00	8/20/2022 13:00	1177.9
8/20/2022 13:00	8/20/2022 14:00	1163.8
8/20/2022 14:00	8/20/2022 15:00	1173.3
8/20/2022 15:00	8/20/2022 16:00	1175.5
8/20/2022 16:00	8/20/2022 17:00	1194.9
8/20/2022 17:00	8/20/2022 18:00	1225.2
8/20/2022 18:00	8/20/2022 19:00	1222.4
8/20/2022 19:00	8/20/2022 20:00	1178.6
8/20/2022 20:00	8/20/2022 21:00	1166.1
8/20/2022 21:00	8/20/2022 22:00	1125.1
8/20/2022 22:00	8/20/2022 23:00	1050.6
8/20/2022 23:00	8/21/2022 0:00	1049.1
8/21/2022 0:00	8/21/2022 1:00	992.3
8/21/2022 1:00	8/21/2022 2:00	946.5
8/21/2022 2:00	8/21/2022 3:00	924.6
8/21/2022 3:00	8/21/2022 4:00	929.7
8/21/2022 4:00	8/21/2022 5:00	932.1
8/21/2022 5:00	8/21/2022 6:00	941.2
8/21/2022 6:00	8/21/2022 7:00	960.2
8/21/2022 7:00	8/21/2022 8:00	1011.0
8/21/2022 8:00	8/21/2022 9:00	1039.9
8/21/2022 9:00	8/21/2022 10:00	1129.9
8/21/2022 10:00	8/21/2022 11:00	1191.6
8/21/2022 11:00	8/21/2022 12:00	1231.8
8/21/2022 12:00	8/21/2022 13:00	1249.8
8/21/2022 13:00	8/21/2022 14:00	1245.0
8/21/2022 14:00	8/21/2022 15:00	1244.3
8/21/2022 15:00	8/21/2022 16:00	1255.3
8/21/2022 16:00	8/21/2022 17:00	1275.8
8/21/2022 17:00	8/21/2022 18:00	1267.2
8/21/2022 18:00	8/21/2022 19:00	1194.4
8/21/2022 19:00	8/21/2022 20:00	1138.6
8/21/2022 20:00	8/21/2022 21:00	1112.2
8/21/2022 21:00	8/21/2022 22:00	1074.5
8/21/2022 22:00	8/21/2022 23:00	1005.5
8/21/2022 23:00	8/22/2022 0:00	947.7
8/22/2022 0:00	8/22/2022 1:00	904.0
8/22/2022 1:00	8/22/2022 2:00	872.7
8/22/2022 2:00	8/22/2022 3:00	859.2
8/22/2022 3:00	8/22/2022 4:00	865.4
8/22/2022 4:00	8/22/2022 5:00	872.5
8/22/2022 5:00	8/22/2022 6:00	877.2
8/22/2022 6:00	8/22/2022 7:00	921.0
8/22/2022 7:00	8/22/2022 8:00	956.2
8/22/2022 8:00	8/22/2022 9:00	1037.8
8/22/2022 9:00	8/22/2022 10:00	1141.5
8/22/2022 10:00	8/22/2022 11:00	1200.4
8/22/2022 11:00	8/22/2022 12:00	1231.9
8/22/2022 12:00	8/22/2022 13:00	1246.3
8/22/2022 13:00	8/22/2022 14:00	1255.3
8/22/2022 14:00	8/22/2022 15:00	1253.3
8/22/2022 15:00	8/22/2022 16:00	1259.0
8/22/2022 16:00	8/22/2022 17:00	1291.4
8/22/2022 17:00	8/22/2022 18:00	1310.1
8/22/2022 18:00	8/22/2022 19:00	1271.0
8/22/2022 19:00	8/22/2022 20:00	1206.0
8/22/2022 20:00	8/22/2022 21:00	1153.2
8/22/2022 21:00	8/22/2022 22:00	1073.0
8/22/2022 22:00	8/22/2022 23:00	973.0
8/22/2022 23:00	8/23/2022 0:00	904.3
8/23/2022 0:00	8/23/2022 1:00	880.7

Start Time	End Time	ANL_MW
8/23/2022 1:00	8/23/2022 2:00	871.9
8/23/2022 2:00	8/23/2022 3:00	873.8
8/23/2022 3:00	8/23/2022 4:00	872.4
8/23/2022 4:00	8/23/2022 5:00	862.5
8/23/2022 5:00	8/23/2022 6:00	800.9
8/23/2022 6:00	8/23/2022 7:00	865.7
8/23/2022 7:00	8/23/2022 8:00	938.3
8/23/2022 8:00	8/23/2022 9:00	985.2
8/23/2022 9:00	8/23/2022 10:00	1040.7
8/23/2022 10:00	8/23/2022 11:00	1098.4
8/23/2022 11:00	8/23/2022 12:00	1130.4
8/23/2022 12:00	8/23/2022 13:00	1104.1
8/23/2022 13:00	8/23/2022 14:00	1144.7
8/23/2022 14:00	8/23/2022 15:00	1184.3
8/23/2022 15:00	8/23/2022 16:00	1189.6
8/23/2022 16:00	8/23/2022 17:00	1195.5
8/23/2022 17:00	8/23/2022 18:00	1230.4
8/23/2022 18:00	8/23/2022 19:00	1190.9
8/23/2022 19:00	8/23/2022 20:00	1158.1
8/23/2022 20:00	8/23/2022 21:00	1190.6
8/23/2022 21:00	8/23/2022 22:00	1165.4
8/23/2022 22:00	8/23/2022 23:00	1089.2
8/23/2022 23:00	8/24/2022 0:00	993.6
8/24/2022 0:00	8/24/2022 1:00	917.6
8/24/2022 1:00	8/24/2022 2:00	876.8
8/24/2022 2:00	8/24/2022 3:00	836.8
8/24/2022 3:00	8/24/2022 4:00	816.0
8/24/2022 4:00	8/24/2022 5:00	812.6
8/24/2022 5:00	8/24/2022 6:00	850.9
8/24/2022 6:00	8/24/2022 7:00	939.9
8/24/2022 7:00	8/24/2022 8:00	1074.3
8/24/2022 8:00	8/24/2022 9:00	1114.3
8/24/2022 9:00	8/24/2022 10:00	1182.5
8/24/2022 10:00	8/24/2022 11:00	1221.5
8/24/2022 11:00	8/24/2022 12:00	1232.6
8/24/2022 12:00	8/24/2022 13:00	1229.2
8/24/2022 13:00	8/24/2022 14:00	1213.3
8/24/2022 14:00	8/24/2022 15:00	1202.8
8/24/2022 15:00	8/24/2022 16:00	1224.1
8/24/2022 16:00	8/24/2022 17:00	1237.6
8/24/2022 17:00	8/24/2022 18:00	1253.3
8/24/2022 18:00	8/24/2022 19:00	1214.7
8/24/2022 19:00	8/24/2022 20:00	1215.3
8/24/2022 20:00	8/24/2022 21:00	1242.4
8/24/2022 21:00	8/24/2022 22:00	1216.7
8/24/2022 22:00	8/24/2022 23:00	1155.7
8/24/2022 23:00	8/25/2022 0:00	1116.1
8/25/2022 0:00	8/25/2022 1:00	1032.1
8/25/2022 1:00	8/25/2022 2:00	987.5
8/25/2022 2:00	8/25/2022 3:00	970.7
8/25/2022 3:00	8/25/2022 4:00	948.3
8/25/2022 4:00	8/25/2022 5:00	931.3
8/25/2022 5:00	8/25/2022 6:00	1004.2
8/25/2022 6:00	8/25/2022 7:00	1084.2
8/25/2022 7:00	8/25/2022 8:00	1189.7
8/25/2022 8:00	8/25/2022 9:00	1200.6
8/25/2022 9:00	8/25/2022 10:00	1252.9
8/25/2022 10:00	8/25/2022 11:00	1297.5
8/25/2022 11:00	8/25/2022 12:00	1314.9
8/25/2022 12:00	8/25/2022 13:00	1322.6
8/25/2022 13:00	8/25/2022 14:00	1292.0
8/25/2022 14:00	8/25/2022 15:00	1282.3
8/25/2022 15:00	8/25/2022 16:00	1281.9
8/25/2022 16:00	8/25/2022 17:00	1286.5
8/25/2022 17:00	8/25/2022 18:00	1301.4
8/25/2022 18:00	8/25/2022 19:00	1282.1
8/25/2022 19:00	8/25/2022 20:00	1250.2
8/25/2022 20:00	8/25/2022 21:00	1249.0
8/25/2022 21:00	8/25/2022 22:00	1224.9
8/25/2022 22:00	8/25/2022 23:00	1141.0

Start Time	End Time	ANL_MW
8/25/2022 23:00	8/26/2022 0:00	1055.9
8/26/2022 0:00	8/26/2022 1:00	1015.1
8/26/2022 1:00	8/26/2022 2:00	1014.8
8/26/2022 2:00	8/26/2022 3:00	996.4
8/26/2022 3:00	8/26/2022 4:00	988.8
8/26/2022 4:00	8/26/2022 5:00	985.4
8/26/2022 5:00	8/26/2022 6:00	1016.7
8/26/2022 6:00	8/26/2022 7:00	1066.4
8/26/2022 7:00	8/26/2022 8:00	1108.8
8/26/2022 8:00	8/26/2022 9:00	1166.8
8/26/2022 9:00	8/26/2022 10:00	1176.9
8/26/2022 10:00	8/26/2022 11:00	1208.1
8/26/2022 11:00	8/26/2022 12:00	1230.1
8/26/2022 12:00	8/26/2022 13:00	1242.3
8/26/2022 13:00	8/26/2022 14:00	1239.3
8/26/2022 14:00	8/26/2022 15:00	1233.6
8/26/2022 15:00	8/26/2022 16:00	1213.5
8/26/2022 16:00	8/26/2022 17:00	1225.4
8/26/2022 17:00	8/26/2022 18:00	1214.3
8/26/2022 18:00	8/26/2022 19:00	1152.9
8/26/2022 19:00	8/26/2022 20:00	1106.1
8/26/2022 20:00	8/26/2022 21:00	1086.3
8/26/2022 21:00	8/26/2022 22:00	1008.1
8/26/2022 22:00	8/26/2022 23:00	910.4
8/26/2022 23:00	8/27/2022 0:00	827.2
8/27/2022 0:00	8/27/2022 1:00	782.2
8/27/2022 1:00	8/27/2022 2:00	784.3
8/27/2022 2:00	8/27/2022 3:00	788.6
8/27/2022 3:00	8/27/2022 4:00	823.9
8/27/2022 4:00	8/27/2022 5:00	839.2
8/27/2022 5:00	8/27/2022 6:00	878.4
8/27/2022 6:00	8/27/2022 7:00	946.1
8/27/2022 7:00	8/27/2022 8:00	1021.8
8/27/2022 8:00	8/27/2022 9:00	1055.9
8/27/2022 9:00	8/27/2022 10:00	1128.6
8/27/2022 10:00	8/27/2022 11:00	1139.8
8/27/2022 11:00	8/27/2022 12:00	1154.3
8/27/2022 12:00	8/27/2022 13:00	1166.3
8/27/2022 13:00	8/27/2022 14:00	1144.0
8/27/2022 14:00	8/27/2022 15:00	1114.7
8/27/2022 15:00	8/27/2022 16:00	1137.2
8/27/2022 16:00	8/27/2022 17:00	1149.4
8/27/2022 17:00	8/27/2022 18:00	1213.1
8/27/2022 18:00	8/27/2022 19:00	1201.0
8/27/2022 19:00	8/27/2022 20:00	1167.5
8/27/2022 20:00	8/27/2022 21:00	1167.8
8/27/2022 21:00	8/27/2022 22:00	1130.3
8/27/2022 22:00	8/27/2022 23:00	1077.4
8/27/2022 23:00	8/28/2022 0:00	1033.1
8/28/2022 0:00	8/28/2022 1:00	989.4
8/28/2022 1:00	8/28/2022 2:00	957.4
8/28/2022 2:00	8/28/2022 3:00	940.0
8/28/2022 3:00	8/28/2022 4:00	928.7
8/28/2022 4:00	8/28/2022 5:00	923.4
8/28/2022 5:00	8/28/2022 6:00	931.8
8/28/2022 6:00	8/28/2022 7:00	948.3
8/28/2022 7:00	8/28/2022 8:00	961.8
8/28/2022 8:00	8/28/2022 9:00	1012.8
8/28/2022 9:00	8/28/2022 10:00	1083.6
8/28/2022 10:00	8/28/2022 11:00	1128.1
8/28/2022 11:00	8/28/2022 12:00	1145.5
8/28/2022 12:00	8/28/2022 13:00	1150.2
8/28/2022 13:00	8/28/2022 14:00	1114.4
8/28/2022 14:00	8/28/2022 15:00	1108.7
8/28/2022 15:00	8/28/2022 16:00	1114.7
8/28/2022 16:00	8/28/2022 17:00	1150.8
8/28/2022 17:00	8/28/2022 18:00	1169.0
8/28/2022 18:00	8/28/2022 19:00	1145.7
8/28/2022 19:00	8/28/2022 20:00	1149.3
8/28/2022 20:00	8/28/2022 21:00	1123.9

Start Time	End Time	ANL_MW
8/28/2022 21:00	8/28/2022 22:00	1039.8
8/28/2022 22:00	8/28/2022 23:00	1004.6
8/28/2022 23:00	8/29/2022 0:00	940.0
8/29/2022 0:00	8/29/2022 1:00	904.1
8/29/2022 1:00	8/29/2022 2:00	885.5
8/29/2022 2:00	8/29/2022 3:00	870.2
8/29/2022 3:00	8/29/2022 4:00	873.7
8/29/2022 4:00	8/29/2022 5:00	869.3
8/29/2022 5:00	8/29/2022 6:00	894.2
8/29/2022 6:00	8/29/2022 7:00	980.4
8/29/2022 7:00	8/29/2022 8:00	1079.2
8/29/2022 8:00	8/29/2022 9:00	1107.4
8/29/2022 9:00	8/29/2022 10:00	1176.4
8/29/2022 10:00	8/29/2022 11:00	1204.8
8/29/2022 11:00	8/29/2022 12:00	1212.9
8/29/2022 12:00	8/29/2022 13:00	1197.5
8/29/2022 13:00	8/29/2022 14:00	1164.7
8/29/2022 14:00	8/29/2022 15:00	1158.1
8/29/2022 15:00	8/29/2022 16:00	1150.2
8/29/2022 16:00	8/29/2022 17:00	1164.6
8/29/2022 17:00	8/29/2022 18:00	1203.6
8/29/2022 18:00	8/29/2022 19:00	1180.0
8/29/2022 19:00	8/29/2022 20:00	1179.0
8/29/2022 20:00	8/29/2022 21:00	1156.7
8/29/2022 21:00	8/29/2022 22:00	1069.4
8/29/2022 22:00	8/29/2022 23:00	958.3
8/29/2022 23:00	8/30/2022 0:00	876.3
8/30/2022 0:00	8/30/2022 1:00	811.1
8/30/2022 1:00	8/30/2022 2:00	771.4
8/30/2022 2:00	8/30/2022 3:00	756.6
8/30/2022 3:00	8/30/2022 4:00	765.3
8/30/2022 4:00	8/30/2022 5:00	791.5
8/30/2022 5:00	8/30/2022 6:00	827.2
8/30/2022 6:00	8/30/2022 7:00	915.2
8/30/2022 7:00	8/30/2022 8:00	1018.6
8/30/2022 8:00	8/30/2022 9:00	1080.9
8/30/2022 9:00	8/30/2022 10:00	1116.8
8/30/2022 10:00	8/30/2022 11:00	1142.5
8/30/2022 11:00	8/30/2022 12:00	1155.8
8/30/2022 12:00	8/30/2022 13:00	1132.2
8/30/2022 13:00	8/30/2022 14:00	1118.0
8/30/2022 14:00	8/30/2022 15:00	1088.0
8/30/2022 15:00	8/30/2022 16:00	1099.5
8/30/2022 16:00	8/30/2022 17:00	1127.7
8/30/2022 17:00	8/30/2022 18:00	1138.1
8/30/2022 18:00	8/30/2022 19:00	1090.7
8/30/2022 19:00	8/30/2022 20:00	1027.1
8/30/2022 20:00	8/30/2022 21:00	1008.5
8/30/2022 21:00	8/30/2022 22:00	965.8
8/30/2022 22:00	8/30/2022 23:00	898.4
8/30/2022 23:00	8/31/2022 0:00	805.0
8/31/2022 0:00	8/31/2022 1:00	704.6
8/31/2022 1:00	8/31/2022 2:00	676.7
8/31/2022 2:00	8/31/2022 3:00	650.2
8/31/2022 3:00	8/31/2022 4:00	644.5
8/31/2022 4:00	8/31/2022 5:00	638.4
8/31/2022 5:00	8/31/2022 6:00	727.6
8/31/2022 6:00	8/31/2022 7:00	826.8
8/31/2022 7:00	8/31/2022 8:00	902.2
8/31/2022 8:00	8/31/2022 9:00	956.5
8/31/2022 9:00	8/31/2022 10:00	984.3
8/31/2022 10:00	8/31/2022 11:00	964.2
8/31/2022 11:00	8/31/2022 12:00	936.2
8/31/2022 12:00	8/31/2022 13:00	925.6
8/31/2022 13:00	8/31/2022 14:00	912.4
8/31/2022 14:00	8/31/2022 15:00	899.7
8/31/2022 15:00	8/31/2022 16:00	906.9
8/31/2022 16:00	8/31/2022 17:00	962.9
8/31/2022 17:00	8/31/2022 18:00	980.6
8/31/2022 18:00	8/31/2022 19:00	952.0

Start Time	End Time	ANL_MW
8/31/2022 19:00	8/31/2022 20:00	930.9
8/31/2022 20:00	8/31/2022 21:00	920.6
8/31/2022 21:00	8/31/2022 22:00	891.1
8/31/2022 22:00	8/31/2022 23:00	842.0
8/31/2022 23:00	9/1/2022 0:00	817.2
9/1/2022 0:00	9/1/2022 1:00	799.6
9/1/2022 1:00	9/1/2022 2:00	778.3
9/1/2022 2:00	9/1/2022 3:00	794.3
9/1/2022 3:00	9/1/2022 4:00	788.6
9/1/2022 4:00	9/1/2022 5:00	797.8
9/1/2022 5:00	9/1/2022 6:00	833.3
9/1/2022 6:00	9/1/2022 7:00	915.6
9/1/2022 7:00	9/1/2022 8:00	982.2
9/1/2022 8:00	9/1/2022 9:00	1065.3
9/1/2022 9:00	9/1/2022 10:00	1124.0
9/1/2022 10:00	9/1/2022 11:00	1171.1
9/1/2022 11:00	9/1/2022 12:00	1168.2
9/1/2022 12:00	9/1/2022 13:00	1169.6
9/1/2022 13:00	9/1/2022 14:00	1162.3
9/1/2022 14:00	9/1/2022 15:00	1156.7
9/1/2022 15:00	9/1/2022 16:00	1147.0
9/1/2022 16:00	9/1/2022 17:00	1187.8
9/1/2022 17:00	9/1/2022 18:00	1184.8
9/1/2022 18:00	9/1/2022 19:00	1166.9
9/1/2022 19:00	9/1/2022 20:00	1096.1
9/1/2022 20:00	9/1/2022 21:00	1029.8
9/1/2022 21:00	9/1/2022 22:00	955.0
9/1/2022 22:00	9/1/2022 23:00	846.2
9/1/2022 23:00	9/2/2022 0:00	792.3
9/2/2022 0:00	9/2/2022 1:00	725.1
9/2/2022 1:00	9/2/2022 2:00	676.2
9/2/2022 2:00	9/2/2022 3:00	653.0
9/2/2022 3:00	9/2/2022 4:00	642.6
9/2/2022 4:00	9/2/2022 5:00	632.2
9/2/2022 5:00	9/2/2022 6:00	662.9
9/2/2022 6:00	9/2/2022 7:00	732.4
9/2/2022 7:00	9/2/2022 8:00	839.6
9/2/2022 8:00	9/2/2022 9:00	950.3
9/2/2022 9:00	9/2/2022 10:00	1001.9
9/2/2022 10:00	9/2/2022 11:00	1025.2
9/2/2022 11:00	9/2/2022 12:00	1038.0
9/2/2022 12:00	9/2/2022 13:00	1034.1
9/2/2022 13:00	9/2/2022 14:00	1008.5
9/2/2022 14:00	9/2/2022 15:00	1001.8
9/2/2022 15:00	9/2/2022 16:00	987.1
9/2/2022 16:00	9/2/2022 17:00	1021.5
9/2/2022 17:00	9/2/2022 18:00	1066.2
9/2/2022 18:00	9/2/2022 19:00	1056.0
9/2/2022 19:00	9/2/2022 20:00	1027.5
9/2/2022 20:00	9/2/2022 21:00	1015.2
9/2/2022 21:00	9/2/2022 22:00	953.5
9/2/2022 22:00	9/2/2022 23:00	891.5
9/2/2022 23:00	9/3/2022 0:00	855.7
9/3/2022 0:00	9/3/2022 1:00	802.3
9/3/2022 1:00	9/3/2022 2:00	775.2
9/3/2022 2:00	9/3/2022 3:00	759.6
9/3/2022 3:00	9/3/2022 4:00	751.2
9/3/2022 4:00	9/3/2022 5:00	752.9
9/3/2022 5:00	9/3/2022 6:00	762.8
9/3/2022 6:00	9/3/2022 7:00	795.2
9/3/2022 7:00	9/3/2022 8:00	861.4
9/3/2022 8:00	9/3/2022 9:00	931.9
9/3/2022 9:00	9/3/2022 10:00	984.2
9/3/2022 10:00	9/3/2022 11:00	1005.4
9/3/2022 11:00	9/3/2022 12:00	1021.4
9/3/2022 12:00	9/3/2022 13:00	1020.0
9/3/2022 13:00	9/3/2022 14:00	1007.3
9/3/2022 14:00	9/3/2022 15:00	1000.1
9/3/2022 15:00	9/3/2022 16:00	1006.2
9/3/2022 16:00	9/3/2022 17:00	1033.8

Start Time	End Time	ANL_MW
9/3/2022 17:00	9/3/2022 18:00	1055.3
9/3/2022 18:00	9/3/2022 19:00	1030.3
9/3/2022 19:00	9/3/2022 20:00	1006.3
9/3/2022 20:00	9/3/2022 21:00	980.6
9/3/2022 21:00	9/3/2022 22:00	891.4
9/3/2022 22:00	9/3/2022 23:00	814.8
9/3/2022 23:00	9/4/2022 0:00	752.0
9/4/2022 0:00	9/4/2022 1:00	719.8
9/4/2022 1:00	9/4/2022 2:00	679.9
9/4/2022 2:00	9/4/2022 3:00	659.9
9/4/2022 3:00	9/4/2022 4:00	649.1
9/4/2022 4:00	9/4/2022 5:00	665.5
9/4/2022 5:00	9/4/2022 6:00	678.9
9/4/2022 6:00	9/4/2022 7:00	688.5
9/4/2022 7:00	9/4/2022 8:00	735.7
9/4/2022 8:00	9/4/2022 9:00	818.5
9/4/2022 9:00	9/4/2022 10:00	908.8
9/4/2022 10:00	9/4/2022 11:00	941.0
9/4/2022 11:00	9/4/2022 12:00	936.4
9/4/2022 12:00	9/4/2022 13:00	941.8
9/4/2022 13:00	9/4/2022 14:00	926.1
9/4/2022 14:00	9/4/2022 15:00	918.5
9/4/2022 15:00	9/4/2022 16:00	935.3
9/4/2022 16:00	9/4/2022 17:00	987.4
9/4/2022 17:00	9/4/2022 18:00	1025.3
9/4/2022 18:00	9/4/2022 19:00	1014.1
9/4/2022 19:00	9/4/2022 20:00	980.8
9/4/2022 20:00	9/4/2022 21:00	982.2
9/4/2022 21:00	9/4/2022 22:00	941.0
9/4/2022 22:00	9/4/2022 23:00	862.4
9/4/2022 23:00	9/5/2022 0:00	813.8
9/5/2022 0:00	9/5/2022 1:00	748.7
9/5/2022 1:00	9/5/2022 2:00	723.9
9/5/2022 2:00	9/5/2022 3:00	714.5
9/5/2022 3:00	9/5/2022 4:00	723.6
9/5/2022 4:00	9/5/2022 5:00	721.5
9/5/2022 5:00	9/5/2022 6:00	742.6
9/5/2022 6:00	9/5/2022 7:00	774.2
9/5/2022 7:00	9/5/2022 8:00	845.5
9/5/2022 8:00	9/5/2022 9:00	919.6
9/5/2022 9:00	9/5/2022 10:00	975.5
9/5/2022 10:00	9/5/2022 11:00	1022.9
9/5/2022 11:00	9/5/2022 12:00	1060.0
9/5/2022 12:00	9/5/2022 13:00	1084.5
9/5/2022 13:00	9/5/2022 14:00	1068.2
9/5/2022 14:00	9/5/2022 15:00	1060.1
9/5/2022 15:00	9/5/2022 16:00	1069.9
9/5/2022 16:00	9/5/2022 17:00	1111.4
9/5/2022 17:00	9/5/2022 18:00	1134.0
9/5/2022 18:00	9/5/2022 19:00	1124.9
9/5/2022 19:00	9/5/2022 20:00	1099.5
9/5/2022 20:00	9/5/2022 21:00	1080.6
9/5/2022 21:00	9/5/2022 22:00	1026.9
9/5/2022 22:00	9/5/2022 23:00	948.6
9/5/2022 23:00	9/6/2022 0:00	917.4
9/6/2022 0:00	9/6/2022 1:00	893.8
9/6/2022 1:00	9/6/2022 2:00	860.2
9/6/2022 2:00	9/6/2022 3:00	850.1
9/6/2022 3:00	9/6/2022 4:00	839.4
9/6/2022 4:00	9/6/2022 5:00	842.1
9/6/2022 5:00	9/6/2022 6:00	877.5
9/6/2022 6:00	9/6/2022 7:00	978.4
9/6/2022 7:00	9/6/2022 8:00	1019.6
9/6/2022 8:00	9/6/2022 9:00	1065.3
9/6/2022 9:00	9/6/2022 10:00	1100.6
9/6/2022 10:00	9/6/2022 11:00	1107.0
9/6/2022 11:00	9/6/2022 12:00	1108.0
9/6/2022 12:00	9/6/2022 13:00	1111.1
9/6/2022 13:00	9/6/2022 14:00	1110.6
9/6/2022 14:00	9/6/2022 15:00	1120.4

Start Time	End Time	ANL_MW
9/6/2022 15:00	9/6/2022 16:00	1130.9
9/6/2022 16:00	9/6/2022 17:00	1172.3
9/6/2022 17:00	9/6/2022 18:00	1192.4
9/6/2022 18:00	9/6/2022 19:00	1170.2
9/6/2022 19:00	9/6/2022 20:00	1154.1
9/6/2022 20:00	9/6/2022 21:00	1144.5
9/6/2022 21:00	9/6/2022 22:00	1050.4
9/6/2022 22:00	9/6/2022 23:00	976.7
9/6/2022 23:00	9/7/2022 0:00	917.5
9/7/2022 0:00	9/7/2022 1:00	909.3
9/7/2022 1:00	9/7/2022 2:00	885.5
9/7/2022 2:00	9/7/2022 3:00	877.2
9/7/2022 3:00	9/7/2022 4:00	868.9
9/7/2022 4:00	9/7/2022 5:00	869.4
9/7/2022 5:00	9/7/2022 6:00	897.2
9/7/2022 6:00	9/7/2022 7:00	922.9
9/7/2022 7:00	9/7/2022 8:00	1034.9
9/7/2022 8:00	9/7/2022 9:00	1087.5
9/7/2022 9:00	9/7/2022 10:00	1123.8
9/7/2022 10:00	9/7/2022 11:00	1150.2
9/7/2022 11:00	9/7/2022 12:00	1162.0
9/7/2022 12:00	9/7/2022 13:00	1168.9
9/7/2022 13:00	9/7/2022 14:00	1164.9
9/7/2022 14:00	9/7/2022 15:00	1166.7
9/7/2022 15:00	9/7/2022 16:00	1182.6
9/7/2022 16:00	9/7/2022 17:00	1226.4
9/7/2022 17:00	9/7/2022 18:00	1257.0
9/7/2022 18:00	9/7/2022 19:00	1233.5
9/7/2022 19:00	9/7/2022 20:00	1208.2
9/7/2022 20:00	9/7/2022 21:00	1210.7
9/7/2022 21:00	9/7/2022 22:00	1137.0
9/7/2022 22:00	9/7/2022 23:00	1041.3
9/7/2022 23:00	9/8/2022 0:00	990.9
9/8/2022 0:00	9/8/2022 1:00	962.6
9/8/2022 1:00	9/8/2022 2:00	920.6
9/8/2022 2:00	9/8/2022 3:00	901.6
9/8/2022 3:00	9/8/2022 4:00	890.7
9/8/2022 4:00	9/8/2022 5:00	892.0
9/8/2022 5:00	9/8/2022 6:00	928.2
9/8/2022 6:00	9/8/2022 7:00	1027.6
9/8/2022 7:00	9/8/2022 8:00	1093.0
9/8/2022 8:00	9/8/2022 9:00	1098.1
9/8/2022 9:00	9/8/2022 10:00	1123.6
9/8/2022 10:00	9/8/2022 11:00	1141.2
9/8/2022 11:00	9/8/2022 12:00	1167.8
9/8/2022 12:00	9/8/2022 13:00	1195.2
9/8/2022 13:00	9/8/2022 14:00	1182.5
9/8/2022 14:00	9/8/2022 15:00	1173.8
9/8/2022 15:00	9/8/2022 16:00	1182.3
9/8/2022 16:00	9/8/2022 17:00	1212.5
9/8/2022 17:00	9/8/2022 18:00	1217.0
9/8/2022 18:00	9/8/2022 19:00	1182.4
9/8/2022 19:00	9/8/2022 20:00	1190.6
9/8/2022 20:00	9/8/2022 21:00	1234.3
9/8/2022 21:00	9/8/2022 22:00	1151.4
9/8/2022 22:00	9/8/2022 23:00	1059.6
9/8/2022 23:00	9/9/2022 0:00	1000.2
9/9/2022 0:00	9/9/2022 1:00	970.7
9/9/2022 1:00	9/9/2022 2:00	946.5
9/9/2022 2:00	9/9/2022 3:00	946.2
9/9/2022 3:00	9/9/2022 4:00	950.7
9/9/2022 4:00	9/9/2022 5:00	953.0
9/9/2022 5:00	9/9/2022 6:00	976.4
9/9/2022 6:00	9/9/2022 7:00	1039.0
9/9/2022 7:00	9/9/2022 8:00	1142.1
9/9/2022 8:00	9/9/2022 9:00	1177.0
9/9/2022 9:00	9/9/2022 10:00	1126.9
9/9/2022 10:00	9/9/2022 11:00	1140.7
9/9/2022 11:00	9/9/2022 12:00	1136.4
9/9/2022 12:00	9/9/2022 13:00	1123.2

Start Time	End Time	ANL_MW
9/9/2022 13:00	9/9/2022 14:00	1111.9
9/9/2022 14:00	9/9/2022 15:00	1079.0
9/9/2022 15:00	9/9/2022 16:00	1089.1
9/9/2022 16:00	9/9/2022 17:00	1117.0
9/9/2022 17:00	9/9/2022 18:00	1126.0
9/9/2022 18:00	9/9/2022 19:00	1116.3
9/9/2022 19:00	9/9/2022 20:00	1086.2
9/9/2022 20:00	9/9/2022 21:00	1059.7
9/9/2022 21:00	9/9/2022 22:00	1048.4
9/9/2022 22:00	9/9/2022 23:00	984.5
9/9/2022 23:00	9/10/2022 0:00	930.1
9/10/2022 0:00	9/10/2022 1:00	879.1
9/10/2022 1:00	9/10/2022 2:00	818.9
9/10/2022 2:00	9/10/2022 3:00	768.9
9/10/2022 3:00	9/10/2022 4:00	748.5
9/10/2022 4:00	9/10/2022 5:00	728.0
9/10/2022 5:00	9/10/2022 6:00	666.8
9/10/2022 6:00	9/10/2022 7:00	692.9
9/10/2022 7:00	9/10/2022 8:00	726.1
9/10/2022 8:00	9/10/2022 9:00	806.7
9/10/2022 9:00	9/10/2022 10:00	888.9
9/10/2022 10:00	9/10/2022 11:00	853.3
9/10/2022 11:00	9/10/2022 12:00	857.7
9/10/2022 12:00	9/10/2022 13:00	846.5
9/10/2022 13:00	9/10/2022 14:00	816.3
9/10/2022 14:00	9/10/2022 15:00	808.6
9/10/2022 15:00	9/10/2022 16:00	823.0
9/10/2022 16:00	9/10/2022 17:00	857.2
9/10/2022 17:00	9/10/2022 18:00	897.3
9/10/2022 18:00	9/10/2022 19:00	931.5
9/10/2022 19:00	9/10/2022 20:00	929.7
9/10/2022 20:00	9/10/2022 21:00	931.5
9/10/2022 21:00	9/10/2022 22:00	867.0
9/10/2022 22:00	9/10/2022 23:00	814.5
9/10/2022 23:00	9/11/2022 0:00	780.3
9/11/2022 0:00	9/11/2022 1:00	729.4
9/11/2022 1:00	9/11/2022 2:00	692.4
9/11/2022 2:00	9/11/2022 3:00	661.1
9/11/2022 3:00	9/11/2022 4:00	662.7
9/11/2022 4:00	9/11/2022 5:00	661.5
9/11/2022 5:00	9/11/2022 6:00	662.4
9/11/2022 6:00	9/11/2022 7:00	693.8
9/11/2022 7:00	9/11/2022 8:00	759.8
9/11/2022 8:00	9/11/2022 9:00	833.0
9/11/2022 9:00	9/11/2022 10:00	929.8
9/11/2022 10:00	9/11/2022 11:00	918.3
9/11/2022 11:00	9/11/2022 12:00	940.7
9/11/2022 12:00	9/11/2022 13:00	938.2
9/11/2022 13:00	9/11/2022 14:00	932.4
9/11/2022 14:00	9/11/2022 15:00	931.1
9/11/2022 15:00	9/11/2022 16:00	948.1
9/11/2022 16:00	9/11/2022 17:00	954.3
9/11/2022 17:00	9/11/2022 18:00	987.7
9/11/2022 18:00	9/11/2022 19:00	994.3
9/11/2022 19:00	9/11/2022 20:00	982.4
9/11/2022 20:00	9/11/2022 21:00	955.1
9/11/2022 21:00	9/11/2022 22:00	909.2
9/11/2022 22:00	9/11/2022 23:00	887.6
9/11/2022 23:00	9/12/2022 0:00	865.3
9/12/2022 0:00	9/12/2022 1:00	837.3
9/12/2022 1:00	9/12/2022 2:00	817.6
9/12/2022 2:00	9/12/2022 3:00	808.0
9/12/2022 3:00	9/12/2022 4:00	803.6
9/12/2022 4:00	9/12/2022 5:00	801.2
9/12/2022 5:00	9/12/2022 6:00	848.5
9/12/2022 6:00	9/12/2022 7:00	932.6
9/12/2022 7:00	9/12/2022 8:00	1021.6
9/12/2022 8:00	9/12/2022 9:00	1074.3
9/12/2022 9:00	9/12/2022 10:00	1100.5
9/12/2022 10:00	9/12/2022 11:00	1119.0

Start Time	End Time	ANL_MW
9/12/2022 11:00	9/12/2022 12:00	1138.5
9/12/2022 12:00	9/12/2022 13:00	1157.4
9/12/2022 13:00	9/12/2022 14:00	1169.0
9/12/2022 14:00	9/12/2022 15:00	1166.8
9/12/2022 15:00	9/12/2022 16:00	1195.6
9/12/2022 16:00	9/12/2022 17:00	1237.4
9/12/2022 17:00	9/12/2022 18:00	1268.4
9/12/2022 18:00	9/12/2022 19:00	1241.3
9/12/2022 19:00	9/12/2022 20:00	1231.3
9/12/2022 20:00	9/12/2022 21:00	1215.9
9/12/2022 21:00	9/12/2022 22:00	1129.1
9/12/2022 22:00	9/12/2022 23:00	1027.8
9/12/2022 23:00	9/13/2022 0:00	1006.9
9/13/2022 0:00	9/13/2022 1:00	966.9
9/13/2022 1:00	9/13/2022 2:00	934.1
9/13/2022 2:00	9/13/2022 3:00	924.4
9/13/2022 3:00	9/13/2022 4:00	919.7
9/13/2022 4:00	9/13/2022 5:00	920.1
9/13/2022 5:00	9/13/2022 6:00	950.1
9/13/2022 6:00	9/13/2022 7:00	1024.9
9/13/2022 7:00	9/13/2022 8:00	1106.0
9/13/2022 8:00	9/13/2022 9:00	1155.1
9/13/2022 9:00	9/13/2022 10:00	1187.0
9/13/2022 10:00	9/13/2022 11:00	1176.3
9/13/2022 11:00	9/13/2022 12:00	1187.8
9/13/2022 12:00	9/13/2022 13:00	1200.9
9/13/2022 13:00	9/13/2022 14:00	1211.5
9/13/2022 14:00	9/13/2022 15:00	1207.5
9/13/2022 15:00	9/13/2022 16:00	1225.2
9/13/2022 16:00	9/13/2022 17:00	1253.3
9/13/2022 17:00	9/13/2022 18:00	1263.1
9/13/2022 18:00	9/13/2022 19:00	1222.8
9/13/2022 19:00	9/13/2022 20:00	1204.1
9/13/2022 20:00	9/13/2022 21:00	1195.5
9/13/2022 21:00	9/13/2022 22:00	1103.4
9/13/2022 22:00	9/13/2022 23:00	995.4
9/13/2022 23:00	9/14/2022 0:00	891.0
9/14/2022 0:00	9/14/2022 1:00	833.4
9/14/2022 1:00	9/14/2022 2:00	836.6
9/14/2022 2:00	9/14/2022 3:00	816.3
9/14/2022 3:00	9/14/2022 4:00	804.3
9/14/2022 4:00	9/14/2022 5:00	801.2
9/14/2022 5:00	9/14/2022 6:00	828.8
9/14/2022 6:00	9/14/2022 7:00	910.9
9/14/2022 7:00	9/14/2022 8:00	954.3
9/14/2022 8:00	9/14/2022 9:00	952.2
9/14/2022 9:00	9/14/2022 10:00	996.0
9/14/2022 10:00	9/14/2022 11:00	983.9
9/14/2022 11:00	9/14/2022 12:00	1021.3
9/14/2022 12:00	9/14/2022 13:00	1000.0
9/14/2022 13:00	9/14/2022 14:00	997.5
9/14/2022 14:00	9/14/2022 15:00	999.1
9/14/2022 15:00	9/14/2022 16:00	944.5
9/14/2022 16:00	9/14/2022 17:00	969.7
9/14/2022 17:00	9/14/2022 18:00	999.2
9/14/2022 18:00	9/14/2022 19:00	950.0
9/14/2022 19:00	9/14/2022 20:00	931.9
9/14/2022 20:00	9/14/2022 21:00	916.3
9/14/2022 21:00	9/14/2022 22:00	862.7
9/14/2022 22:00	9/14/2022 23:00	825.8
9/14/2022 23:00	9/15/2022 0:00	761.4
9/15/2022 0:00	9/15/2022 1:00	695.8
9/15/2022 1:00	9/15/2022 2:00	663.7
9/15/2022 2:00	9/15/2022 3:00	656.4
9/15/2022 3:00	9/15/2022 4:00	652.9
9/15/2022 4:00	9/15/2022 5:00	639.5
9/15/2022 5:00	9/15/2022 6:00	676.6
9/15/2022 6:00	9/15/2022 7:00	800.4
9/15/2022 7:00	9/15/2022 8:00	902.3
9/15/2022 8:00	9/15/2022 9:00	929.0

Start Time	End Time	ANL_MW
9/15/2022 9:00	9/15/2022 10:00	907.7
9/15/2022 10:00	9/15/2022 11:00	867.9
9/15/2022 11:00	9/15/2022 12:00	816.5
9/15/2022 12:00	9/15/2022 13:00	809.4
9/15/2022 13:00	9/15/2022 14:00	784.9
9/15/2022 14:00	9/15/2022 15:00	759.1
9/15/2022 15:00	9/15/2022 16:00	752.0
9/15/2022 16:00	9/15/2022 17:00	760.0
9/15/2022 17:00	9/15/2022 18:00	780.2
9/15/2022 18:00	9/15/2022 19:00	773.2
9/15/2022 19:00	9/15/2022 20:00	799.2
9/15/2022 20:00	9/15/2022 21:00	773.9
9/15/2022 21:00	9/15/2022 22:00	681.1
9/15/2022 22:00	9/15/2022 23:00	631.6
9/15/2022 23:00	9/16/2022 0:00	602.1
9/16/2022 0:00	9/16/2022 1:00	545.2
9/16/2022 1:00	9/16/2022 2:00	512.7
9/16/2022 2:00	9/16/2022 3:00	519.0
9/16/2022 3:00	9/16/2022 4:00	520.8
9/16/2022 4:00	9/16/2022 5:00	522.9
9/16/2022 5:00	9/16/2022 6:00	575.6
9/16/2022 6:00	9/16/2022 7:00	680.0
9/16/2022 7:00	9/16/2022 8:00	775.3
9/16/2022 8:00	9/16/2022 9:00	781.1
9/16/2022 9:00	9/16/2022 10:00	762.3
9/16/2022 10:00	9/16/2022 11:00	710.9
9/16/2022 11:00	9/16/2022 12:00	723.3
9/16/2022 12:00	9/16/2022 13:00	719.8
9/16/2022 13:00	9/16/2022 14:00	724.0
9/16/2022 14:00	9/16/2022 15:00	700.5
9/16/2022 15:00	9/16/2022 16:00	745.1
9/16/2022 16:00	9/16/2022 17:00	766.7
9/16/2022 17:00	9/16/2022 18:00	761.4
9/16/2022 18:00	9/16/2022 19:00	767.6
9/16/2022 19:00	9/16/2022 20:00	788.7
9/16/2022 20:00	9/16/2022 21:00	759.7
9/16/2022 21:00	9/16/2022 22:00	740.4
9/16/2022 22:00	9/16/2022 23:00	656.7
9/16/2022 23:00	9/17/2022 0:00	564.5
9/17/2022 0:00	9/17/2022 1:00	531.4
9/17/2022 1:00	9/17/2022 2:00	541.7
9/17/2022 2:00	9/17/2022 3:00	556.2
9/17/2022 3:00	9/17/2022 4:00	548.3
9/17/2022 4:00	9/17/2022 5:00	562.2
9/17/2022 5:00	9/17/2022 6:00	555.9
9/17/2022 6:00	9/17/2022 7:00	562.5
9/17/2022 7:00	9/17/2022 8:00	613.4
9/17/2022 8:00	9/17/2022 9:00	669.3
9/17/2022 9:00	9/17/2022 10:00	725.6
9/17/2022 10:00	9/17/2022 11:00	728.2
9/17/2022 11:00	9/17/2022 12:00	720.3
9/17/2022 12:00	9/17/2022 13:00	711.3
9/17/2022 13:00	9/17/2022 14:00	692.3
9/17/2022 14:00	9/17/2022 15:00	693.5
9/17/2022 15:00	9/17/2022 16:00	706.2
9/17/2022 16:00	9/17/2022 17:00	769.7
9/17/2022 17:00	9/17/2022 18:00	855.7
9/17/2022 18:00	9/17/2022 19:00	893.8
9/17/2022 19:00	9/17/2022 20:00	908.2
9/17/2022 20:00	9/17/2022 21:00	866.3
9/17/2022 21:00	9/17/2022 22:00	775.8
9/17/2022 22:00	9/17/2022 23:00	730.7
9/17/2022 23:00	9/18/2022 0:00	660.5
9/18/2022 0:00	9/18/2022 1:00	594.8
9/18/2022 1:00	9/18/2022 2:00	580.9
9/18/2022 2:00	9/18/2022 3:00	568.6
9/18/2022 3:00	9/18/2022 4:00	565.3
9/18/2022 4:00	9/18/2022 5:00	580.2
9/18/2022 5:00	9/18/2022 6:00	596.5
9/18/2022 6:00	9/18/2022 7:00	619.2

Start Time	End Time	ANL_MW
9/18/2022 7:00	9/18/2022 8:00	699.2
9/18/2022 8:00	9/18/2022 9:00	817.9
9/18/2022 9:00	9/18/2022 10:00	879.0
9/18/2022 10:00	9/18/2022 11:00	948.6
9/18/2022 11:00	9/18/2022 12:00	979.1
9/18/2022 12:00	9/18/2022 13:00	962.5
9/18/2022 13:00	9/18/2022 14:00	979.8
9/18/2022 14:00	9/18/2022 15:00	1013.6
9/18/2022 15:00	9/18/2022 16:00	1064.2
9/18/2022 16:00	9/18/2022 17:00	1103.6
9/18/2022 17:00	9/18/2022 18:00	1091.2
9/18/2022 18:00	9/18/2022 19:00	1077.1
9/18/2022 19:00	9/18/2022 20:00	1108.7
9/18/2022 20:00	9/18/2022 21:00	1105.9
9/18/2022 21:00	9/18/2022 22:00	1039.0
9/18/2022 22:00	9/18/2022 23:00	976.9
9/18/2022 23:00	9/19/2022 0:00	978.4
9/19/2022 0:00	9/19/2022 1:00	928.2
9/19/2022 1:00	9/19/2022 2:00	914.6
9/19/2022 2:00	9/19/2022 3:00	906.1
9/19/2022 3:00	9/19/2022 4:00	896.6
9/19/2022 4:00	9/19/2022 5:00	898.4
9/19/2022 5:00	9/19/2022 6:00	940.0
9/19/2022 6:00	9/19/2022 7:00	962.9
9/19/2022 7:00	9/19/2022 8:00	1048.0
9/19/2022 8:00	9/19/2022 9:00	1105.0
9/19/2022 9:00	9/19/2022 10:00	1140.0
9/19/2022 10:00	9/19/2022 11:00	1140.0
9/19/2022 11:00	9/19/2022 12:00	1132.5
9/19/2022 12:00	9/19/2022 13:00	1121.1
9/19/2022 13:00	9/19/2022 14:00	1113.0
9/19/2022 14:00	9/19/2022 15:00	1098.6
9/19/2022 15:00	9/19/2022 16:00	1095.5
9/19/2022 16:00	9/19/2022 17:00	1136.9
9/19/2022 17:00	9/19/2022 18:00	1161.1
9/19/2022 18:00	9/19/2022 19:00	1135.1
9/19/2022 19:00	9/19/2022 20:00	1144.4
9/19/2022 20:00	9/19/2022 21:00	1115.5
9/19/2022 21:00	9/19/2022 22:00	1049.6
9/19/2022 22:00	9/19/2022 23:00	1025.6
9/19/2022 23:00	9/20/2022 0:00	975.1
9/20/2022 0:00	9/20/2022 1:00	925.5
9/20/2022 1:00	9/20/2022 2:00	876.9
9/20/2022 2:00	9/20/2022 3:00	850.5
9/20/2022 3:00	9/20/2022 4:00	826.1
9/20/2022 4:00	9/20/2022 5:00	807.7
9/20/2022 5:00	9/20/2022 6:00	819.2
9/20/2022 6:00	9/20/2022 7:00	839.3
9/20/2022 7:00	9/20/2022 8:00	949.2
9/20/2022 8:00	9/20/2022 9:00	975.6
9/20/2022 9:00	9/20/2022 10:00	971.2
9/20/2022 10:00	9/20/2022 11:00	1001.8
9/20/2022 11:00	9/20/2022 12:00	1031.0
9/20/2022 12:00	9/20/2022 13:00	997.1
9/20/2022 13:00	9/20/2022 14:00	980.4
9/20/2022 14:00	9/20/2022 15:00	913.9
9/20/2022 15:00	9/20/2022 16:00	883.3
9/20/2022 16:00	9/20/2022 17:00	914.5
9/20/2022 17:00	9/20/2022 18:00	941.7
9/20/2022 18:00	9/20/2022 19:00	939.7
9/20/2022 19:00	9/20/2022 20:00	960.0
9/20/2022 20:00	9/20/2022 21:00	934.1
9/20/2022 21:00	9/20/2022 22:00	877.4
9/20/2022 22:00	9/20/2022 23:00	836.4
9/20/2022 23:00	9/21/2022 0:00	789.1
9/21/2022 0:00	9/21/2022 1:00	733.7
9/21/2022 1:00	9/21/2022 2:00	714.7
9/21/2022 2:00	9/21/2022 3:00	714.4
9/21/2022 3:00	9/21/2022 4:00	721.4
9/21/2022 4:00	9/21/2022 5:00	738.2

Start Time	End Time	ANL_MW
9/21/2022 5:00	9/21/2022 6:00	820.7
9/21/2022 6:00	9/21/2022 7:00	944.4
9/21/2022 7:00	9/21/2022 8:00	1008.6
9/21/2022 8:00	9/21/2022 9:00	1069.8
9/21/2022 9:00	9/21/2022 10:00	1107.1
9/21/2022 10:00	9/21/2022 11:00	1118.0
9/21/2022 11:00	9/21/2022 12:00	1130.8
9/21/2022 12:00	9/21/2022 13:00	1140.4
9/21/2022 13:00	9/21/2022 14:00	1149.1
9/21/2022 14:00	9/21/2022 15:00	1062.7
9/21/2022 15:00	9/21/2022 16:00	1094.6
9/21/2022 16:00	9/21/2022 17:00	1134.1
9/21/2022 17:00	9/21/2022 18:00	1168.9
9/21/2022 18:00	9/21/2022 19:00	1142.5
9/21/2022 19:00	9/21/2022 20:00	1151.9
9/21/2022 20:00	9/21/2022 21:00	1151.5
9/21/2022 21:00	9/21/2022 22:00	1120.1
9/21/2022 22:00	9/21/2022 23:00	1091.8
9/21/2022 23:00	9/22/2022 0:00	1024.1
9/22/2022 0:00	9/22/2022 1:00	961.4
9/22/2022 1:00	9/22/2022 2:00	918.4
9/22/2022 2:00	9/22/2022 3:00	903.2
9/22/2022 3:00	9/22/2022 4:00	892.8
9/22/2022 4:00	9/22/2022 5:00	886.4
9/22/2022 5:00	9/22/2022 6:00	920.1
9/22/2022 6:00	9/22/2022 7:00	1026.0
9/22/2022 7:00	9/22/2022 8:00	1131.0
9/22/2022 8:00	9/22/2022 9:00	1096.4
9/22/2022 9:00	9/22/2022 10:00	1077.9
9/22/2022 10:00	9/22/2022 11:00	1051.5
9/22/2022 11:00	9/22/2022 12:00	1011.8
9/22/2022 12:00	9/22/2022 13:00	974.8
9/22/2022 13:00	9/22/2022 14:00	946.6
9/22/2022 14:00	9/22/2022 15:00	894.2
9/22/2022 15:00	9/22/2022 16:00	860.9
9/22/2022 16:00	9/22/2022 17:00	875.1
9/22/2022 17:00	9/22/2022 18:00	872.7
9/22/2022 18:00	9/22/2022 19:00	843.7
9/22/2022 19:00	9/22/2022 20:00	862.9
9/22/2022 20:00	9/22/2022 21:00	857.8
9/22/2022 21:00	9/22/2022 22:00	818.0
9/22/2022 22:00	9/22/2022 23:00	714.1
9/22/2022 23:00	9/23/2022 0:00	660.2
9/23/2022 0:00	9/23/2022 1:00	594.1
9/23/2022 1:00	9/23/2022 2:00	621.7
9/23/2022 2:00	9/23/2022 3:00	618.2
9/23/2022 3:00	9/23/2022 4:00	635.0
9/23/2022 4:00	9/23/2022 5:00	671.3
9/23/2022 5:00	9/23/2022 6:00	697.9
9/23/2022 6:00	9/23/2022 7:00	801.9
9/23/2022 7:00	9/23/2022 8:00	984.7
9/23/2022 8:00	9/23/2022 9:00	1086.8
9/23/2022 9:00	9/23/2022 10:00	1134.6
9/23/2022 10:00	9/23/2022 11:00	1182.0
9/23/2022 11:00	9/23/2022 12:00	1172.1
9/23/2022 12:00	9/23/2022 13:00	1212.3
9/23/2022 13:00	9/23/2022 14:00	1186.5
9/23/2022 14:00	9/23/2022 15:00	1147.6
9/23/2022 15:00	9/23/2022 16:00	1104.9
9/23/2022 16:00	9/23/2022 17:00	1057.2
9/23/2022 17:00	9/23/2022 18:00	993.6
9/23/2022 18:00	9/23/2022 19:00	886.8
9/23/2022 19:00	9/23/2022 20:00	888.4
9/23/2022 20:00	9/23/2022 21:00	824.9
9/23/2022 21:00	9/23/2022 22:00	818.1
9/23/2022 22:00	9/23/2022 23:00	751.5
9/23/2022 23:00	9/24/2022 0:00	641.3
9/24/2022 0:00	9/24/2022 1:00	586.1
9/24/2022 1:00	9/24/2022 2:00	435.5
9/24/2022 2:00	9/24/2022 3:00	401.7

Start Time	End Time	ANL_MW
9/24/2022 3:00	9/24/2022 4:00	389.1
9/24/2022 4:00	9/24/2022 5:00	305.4
9/24/2022 5:00	9/24/2022 6:00	288.2
9/24/2022 6:00	9/24/2022 7:00	295.8
9/24/2022 7:00	9/24/2022 8:00	311.2
9/24/2022 8:00	9/24/2022 9:00	333.8
9/24/2022 9:00	9/24/2022 10:00	354.2
9/24/2022 10:00	9/24/2022 11:00	382.0
9/24/2022 11:00	9/24/2022 12:00	406.6
9/24/2022 12:00	9/24/2022 13:00	424.1
9/24/2022 13:00	9/24/2022 14:00	431.2
9/24/2022 14:00	9/24/2022 15:00	448.6
9/24/2022 15:00	9/24/2022 16:00	458.2
9/24/2022 16:00	9/24/2022 17:00	505.6
9/24/2022 17:00	9/24/2022 18:00	547.5
9/24/2022 18:00	9/24/2022 19:00	561.6
9/24/2022 19:00	9/24/2022 20:00	588.3
9/24/2022 20:00	9/24/2022 21:00	592.5
9/24/2022 21:00	9/24/2022 22:00	559.3
9/24/2022 22:00	9/24/2022 23:00	461.6
9/24/2022 23:00	9/25/2022 0:00	411.1
9/25/2022 0:00	9/25/2022 1:00	458.3
9/25/2022 1:00	9/25/2022 2:00	494.0
9/25/2022 2:00	9/25/2022 3:00	491.7
9/25/2022 3:00	9/25/2022 4:00	498.5
9/25/2022 4:00	9/25/2022 5:00	497.3
9/25/2022 5:00	9/25/2022 6:00	523.8
9/25/2022 6:00	9/25/2022 7:00	543.6
9/25/2022 7:00	9/25/2022 8:00	583.3
9/25/2022 8:00	9/25/2022 9:00	631.0
9/25/2022 9:00	9/25/2022 10:00	704.5
9/25/2022 10:00	9/25/2022 11:00	727.6
9/25/2022 11:00	9/25/2022 12:00	729.8
9/25/2022 12:00	9/25/2022 13:00	729.7
9/25/2022 13:00	9/25/2022 14:00	719.3
9/25/2022 14:00	9/25/2022 15:00	715.0
9/25/2022 15:00	9/25/2022 16:00	700.4
9/25/2022 16:00	9/25/2022 17:00	692.8
9/25/2022 17:00	9/25/2022 18:00	726.0
9/25/2022 18:00	9/25/2022 19:00	729.3
9/25/2022 19:00	9/25/2022 20:00	777.9
9/25/2022 20:00	9/25/2022 21:00	762.9
9/25/2022 21:00	9/25/2022 22:00	723.4
9/25/2022 22:00	9/25/2022 23:00	658.9
9/25/2022 23:00	9/26/2022 0:00	643.4
9/26/2022 0:00	9/26/2022 1:00	635.6
9/26/2022 1:00	9/26/2022 2:00	625.3
9/26/2022 2:00	9/26/2022 3:00	620.1
9/26/2022 3:00	9/26/2022 4:00	605.5
9/26/2022 4:00	9/26/2022 5:00	601.9
9/26/2022 5:00	9/26/2022 6:00	625.9
9/26/2022 6:00	9/26/2022 7:00	686.7
9/26/2022 7:00	9/26/2022 8:00	688.8
9/26/2022 8:00	9/26/2022 9:00	748.8
9/26/2022 9:00	9/26/2022 10:00	794.4
9/26/2022 10:00	9/26/2022 11:00	827.4
9/26/2022 11:00	9/26/2022 12:00	811.1
9/26/2022 12:00	9/26/2022 13:00	802.1
9/26/2022 13:00	9/26/2022 14:00	790.1
9/26/2022 14:00	9/26/2022 15:00	778.8
9/26/2022 15:00	9/26/2022 16:00	787.4
9/26/2022 16:00	9/26/2022 17:00	853.6
9/26/2022 17:00	9/26/2022 18:00	872.4
9/26/2022 18:00	9/26/2022 19:00	848.9
9/26/2022 19:00	9/26/2022 20:00	851.1
9/26/2022 20:00	9/26/2022 21:00	856.1
9/26/2022 21:00	9/26/2022 22:00	821.0
9/26/2022 22:00	9/26/2022 23:00	759.8
9/26/2022 23:00	9/27/2022 0:00	705.5
9/27/2022 0:00	9/27/2022 1:00	699.4

Start Time	End Time	ANL_MW
9/27/2022 1:00	9/27/2022 2:00	693.0
9/27/2022 2:00	9/27/2022 3:00	691.3
9/27/2022 3:00	9/27/2022 4:00	683.7
9/27/2022 4:00	9/27/2022 5:00	675.1
9/27/2022 5:00	9/27/2022 6:00	705.0
9/27/2022 6:00	9/27/2022 7:00	798.4
9/27/2022 7:00	9/27/2022 8:00	888.5
9/27/2022 8:00	9/27/2022 9:00	940.2
9/27/2022 9:00	9/27/2022 10:00	984.3
9/27/2022 10:00	9/27/2022 11:00	996.4
9/27/2022 11:00	9/27/2022 12:00	1010.1
9/27/2022 12:00	9/27/2022 13:00	1023.2
9/27/2022 13:00	9/27/2022 14:00	1032.4
9/27/2022 14:00	9/27/2022 15:00	1018.2
9/27/2022 15:00	9/27/2022 16:00	1008.3
9/27/2022 16:00	9/27/2022 17:00	1044.1
9/27/2022 17:00	9/27/2022 18:00	1062.6
9/27/2022 18:00	9/27/2022 19:00	1044.8
9/27/2022 19:00	9/27/2022 20:00	1033.1
9/27/2022 20:00	9/27/2022 21:00	1028.6
9/27/2022 21:00	9/27/2022 22:00	981.3
9/27/2022 22:00	9/27/2022 23:00	908.9
9/27/2022 23:00	9/28/2022 0:00	845.6
9/28/2022 0:00	9/28/2022 1:00	777.7
9/28/2022 1:00	9/28/2022 2:00	752.9
9/28/2022 2:00	9/28/2022 3:00	753.6
9/28/2022 3:00	9/28/2022 4:00	749.4
9/28/2022 4:00	9/28/2022 5:00	762.5
9/28/2022 5:00	9/28/2022 6:00	788.9
9/28/2022 6:00	9/28/2022 7:00	866.8
9/28/2022 7:00	9/28/2022 8:00	950.2
9/28/2022 8:00	9/28/2022 9:00	988.4
9/28/2022 9:00	9/28/2022 10:00	1015.6
9/28/2022 10:00	9/28/2022 11:00	1034.5
9/28/2022 11:00	9/28/2022 12:00	1041.8
9/28/2022 12:00	9/28/2022 13:00	1045.4
9/28/2022 13:00	9/28/2022 14:00	1032.2
9/28/2022 14:00	9/28/2022 15:00	1025.9
9/28/2022 15:00	9/28/2022 16:00	1030.9
9/28/2022 16:00	9/28/2022 17:00	1055.6
9/28/2022 17:00	9/28/2022 18:00	1074.3
9/28/2022 18:00	9/28/2022 19:00	1048.7
9/28/2022 19:00	9/28/2022 20:00	1051.5
9/28/2022 20:00	9/28/2022 21:00	1023.1
9/28/2022 21:00	9/28/2022 22:00	944.5
9/28/2022 22:00	9/28/2022 23:00	873.1
9/28/2022 23:00	9/29/2022 0:00	814.5
9/29/2022 0:00	9/29/2022 1:00	795.0
9/29/2022 1:00	9/29/2022 2:00	763.7
9/29/2022 2:00	9/29/2022 3:00	750.9
9/29/2022 3:00	9/29/2022 4:00	753.7
9/29/2022 4:00	9/29/2022 5:00	766.0
9/29/2022 5:00	9/29/2022 6:00	818.9
9/29/2022 6:00	9/29/2022 7:00	921.4
9/29/2022 7:00	9/29/2022 8:00	1019.5
9/29/2022 8:00	9/29/2022 9:00	1056.4
9/29/2022 9:00	9/29/2022 10:00	1075.2
9/29/2022 10:00	9/29/2022 11:00	1087.6
9/29/2022 11:00	9/29/2022 12:00	1083.6
9/29/2022 12:00	9/29/2022 13:00	1068.3
9/29/2022 13:00	9/29/2022 14:00	1048.0
9/29/2022 14:00	9/29/2022 15:00	1038.6
9/29/2022 15:00	9/29/2022 16:00	1039.7
9/29/2022 16:00	9/29/2022 17:00	1068.1
9/29/2022 17:00	9/29/2022 18:00	1088.6
9/29/2022 18:00	9/29/2022 19:00	1084.5
9/29/2022 19:00	9/29/2022 20:00	1107.3
9/29/2022 20:00	9/29/2022 21:00	1082.0
9/29/2022 21:00	9/29/2022 22:00	1001.8
9/29/2022 22:00	9/29/2022 23:00	958.0

Start Time	End Time	ANL_MW
9/29/2022 23:00	9/30/2022 0:00	911.5
9/30/2022 0:00	9/30/2022 1:00	869.7
9/30/2022 1:00	9/30/2022 2:00	835.1
9/30/2022 2:00	9/30/2022 3:00	820.9
9/30/2022 3:00	9/30/2022 4:00	819.3
9/30/2022 4:00	9/30/2022 5:00	839.7
9/30/2022 5:00	9/30/2022 6:00	878.1
9/30/2022 6:00	9/30/2022 7:00	935.7
9/30/2022 7:00	9/30/2022 8:00	962.9
9/30/2022 8:00	9/30/2022 9:00	1032.9
9/30/2022 9:00	9/30/2022 10:00	1075.1
9/30/2022 10:00	9/30/2022 11:00	1077.8
9/30/2022 11:00	9/30/2022 12:00	1079.9
9/30/2022 12:00	9/30/2022 13:00	1069.0
9/30/2022 13:00	9/30/2022 14:00	1057.8
9/30/2022 14:00	9/30/2022 15:00	1032.0
9/30/2022 15:00	9/30/2022 16:00	1042.5
9/30/2022 16:00	9/30/2022 17:00	1055.0
9/30/2022 17:00	9/30/2022 18:00	1062.4
9/30/2022 18:00	9/30/2022 19:00	1050.1
9/30/2022 19:00	9/30/2022 20:00	1056.1
9/30/2022 20:00	9/30/2022 21:00	1026.0
9/30/2022 21:00	9/30/2022 22:00	956.7
9/30/2022 22:00	9/30/2022 23:00	874.7
9/30/2022 23:00	10/1/2022 0:00	811.9
10/1/2022 0:00	10/1/2022 1:00	759.7
10/1/2022 1:00	10/1/2022 2:00	751.0
10/1/2022 2:00	10/1/2022 3:00	743.0
10/1/2022 3:00	10/1/2022 4:00	746.9
10/1/2022 4:00	10/1/2022 5:00	759.0
10/1/2022 5:00	10/1/2022 6:00	781.8
10/1/2022 6:00	10/1/2022 7:00	831.9
10/1/2022 7:00	10/1/2022 8:00	918.6
10/1/2022 8:00	10/1/2022 9:00	1006.9
10/1/2022 9:00	10/1/2022 10:00	1064.4
10/1/2022 10:00	10/1/2022 11:00	1081.9
10/1/2022 11:00	10/1/2022 12:00	1081.4
10/1/2022 12:00	10/1/2022 13:00	1060.3
10/1/2022 13:00	10/1/2022 14:00	1041.8
10/1/2022 14:00	10/1/2022 15:00	1030.3
10/1/2022 15:00	10/1/2022 16:00	1048.9
10/1/2022 16:00	10/1/2022 17:00	1046.1
10/1/2022 17:00	10/1/2022 18:00	1072.4
10/1/2022 18:00	10/1/2022 19:00	1068.0
10/1/2022 19:00	10/1/2022 20:00	1082.4
10/1/2022 20:00	10/1/2022 21:00	1047.6
10/1/2022 21:00	10/1/2022 22:00	997.7
10/1/2022 22:00	10/1/2022 23:00	938.2
10/1/2022 23:00	10/2/2022 0:00	854.9
10/2/2022 0:00	10/2/2022 1:00	800.1
10/2/2022 1:00	10/2/2022 2:00	766.5
10/2/2022 2:00	10/2/2022 3:00	724.0
10/2/2022 3:00	10/2/2022 4:00	714.9
10/2/2022 4:00	10/2/2022 5:00	707.0
10/2/2022 5:00	10/2/2022 6:00	725.7
10/2/2022 6:00	10/2/2022 7:00	758.4
10/2/2022 7:00	10/2/2022 8:00	840.0
10/2/2022 8:00	10/2/2022 9:00	910.1
10/2/2022 9:00	10/2/2022 10:00	947.4
10/2/2022 10:00	10/2/2022 11:00	877.4
10/2/2022 11:00	10/2/2022 12:00	879.7
10/2/2022 12:00	10/2/2022 13:00	883.6
10/2/2022 13:00	10/2/2022 14:00	883.3
10/2/2022 14:00	10/2/2022 15:00	865.7
10/2/2022 15:00	10/2/2022 16:00	859.8
10/2/2022 16:00	10/2/2022 17:00	913.6
10/2/2022 17:00	10/2/2022 18:00	986.5
10/2/2022 18:00	10/2/2022 19:00	1015.1
10/2/2022 19:00	10/2/2022 20:00	1063.5
10/2/2022 20:00	10/2/2022 21:00	1025.2

Start Time	End Time	ANL_MW
10/2/2022 21:00	10/2/2022 22:00	981.0
10/2/2022 22:00	10/2/2022 23:00	947.1
10/2/2022 23:00	10/3/2022 0:00	884.2
10/3/2022 0:00	10/3/2022 1:00	843.5
10/3/2022 1:00	10/3/2022 2:00	843.9
10/3/2022 2:00	10/3/2022 3:00	908.1
10/3/2022 3:00	10/3/2022 4:00	928.1
10/3/2022 4:00	10/3/2022 5:00	942.9
10/3/2022 5:00	10/3/2022 6:00	955.0
10/3/2022 6:00	10/3/2022 7:00	1048.3
10/3/2022 7:00	10/3/2022 8:00	1138.8
10/3/2022 8:00	10/3/2022 9:00	1149.6
10/3/2022 9:00	10/3/2022 10:00	1135.2
10/3/2022 10:00	10/3/2022 11:00	1082.5
10/3/2022 11:00	10/3/2022 12:00	1043.2
10/3/2022 12:00	10/3/2022 13:00	1037.5
10/3/2022 13:00	10/3/2022 14:00	1012.1
10/3/2022 14:00	10/3/2022 15:00	995.3
10/3/2022 15:00	10/3/2022 16:00	1001.1
10/3/2022 16:00	10/3/2022 17:00	1057.3
10/3/2022 17:00	10/3/2022 18:00	1103.7
10/3/2022 18:00	10/3/2022 19:00	1120.9
10/3/2022 19:00	10/3/2022 20:00	1166.0
10/3/2022 20:00	10/3/2022 21:00	1146.3
10/3/2022 21:00	10/3/2022 22:00	1089.7
10/3/2022 22:00	10/3/2022 23:00	1026.8
10/3/2022 23:00	10/4/2022 0:00	1004.7
10/4/2022 0:00	10/4/2022 1:00	995.4
10/4/2022 1:00	10/4/2022 2:00	1012.0
10/4/2022 2:00	10/4/2022 3:00	997.0
10/4/2022 3:00	10/4/2022 4:00	989.5
10/4/2022 4:00	10/4/2022 5:00	991.5
10/4/2022 5:00	10/4/2022 6:00	1037.6
10/4/2022 6:00	10/4/2022 7:00	1071.1
10/4/2022 7:00	10/4/2022 8:00	1133.4
10/4/2022 8:00	10/4/2022 9:00	1123.4
10/4/2022 9:00	10/4/2022 10:00	1113.6
10/4/2022 10:00	10/4/2022 11:00	1071.7
10/4/2022 11:00	10/4/2022 12:00	1039.5
10/4/2022 12:00	10/4/2022 13:00	1021.7
10/4/2022 13:00	10/4/2022 14:00	1003.6
10/4/2022 14:00	10/4/2022 15:00	982.0
10/4/2022 15:00	10/4/2022 16:00	976.1
10/4/2022 16:00	10/4/2022 17:00	1018.5
10/4/2022 17:00	10/4/2022 18:00	1043.9
10/4/2022 18:00	10/4/2022 19:00	1044.6
10/4/2022 19:00	10/4/2022 20:00	1060.6
10/4/2022 20:00	10/4/2022 21:00	1015.0
10/4/2022 21:00	10/4/2022 22:00	955.1
10/4/2022 22:00	10/4/2022 23:00	870.4
10/4/2022 23:00	10/5/2022 0:00	851.3
10/5/2022 0:00	10/5/2022 1:00	817.9
10/5/2022 1:00	10/5/2022 2:00	778.6
10/5/2022 2:00	10/5/2022 3:00	787.8
10/5/2022 3:00	10/5/2022 4:00	803.5
10/5/2022 4:00	10/5/2022 5:00	817.8
10/5/2022 5:00	10/5/2022 6:00	876.4
10/5/2022 6:00	10/5/2022 7:00	977.0
10/5/2022 7:00	10/5/2022 8:00	1051.3
10/5/2022 8:00	10/5/2022 9:00	1063.7
10/5/2022 9:00	10/5/2022 10:00	1067.4
10/5/2022 10:00	10/5/2022 11:00	1058.1
10/5/2022 11:00	10/5/2022 12:00	1036.7
10/5/2022 12:00	10/5/2022 13:00	1034.0
10/5/2022 13:00	10/5/2022 14:00	1020.1
10/5/2022 14:00	10/5/2022 15:00	993.7
10/5/2022 15:00	10/5/2022 16:00	1011.8
10/5/2022 16:00	10/5/2022 17:00	1036.0
10/5/2022 17:00	10/5/2022 18:00	1048.5
10/5/2022 18:00	10/5/2022 19:00	1052.0

Start Time	End Time	ANL_MW
10/5/2022 19:00	10/5/2022 20:00	1057.6
10/5/2022 20:00	10/5/2022 21:00	1038.7
10/5/2022 21:00	10/5/2022 22:00	968.4
10/5/2022 22:00	10/5/2022 23:00	887.4
10/5/2022 23:00	10/6/2022 0:00	845.1
10/6/2022 0:00	10/6/2022 1:00	847.1
10/6/2022 1:00	10/6/2022 2:00	819.6
10/6/2022 2:00	10/6/2022 3:00	818.0
10/6/2022 3:00	10/6/2022 4:00	837.1
10/6/2022 4:00	10/6/2022 5:00	842.2
10/6/2022 5:00	10/6/2022 6:00	889.8
10/6/2022 6:00	10/6/2022 7:00	953.5
10/6/2022 7:00	10/6/2022 8:00	1008.8
10/6/2022 8:00	10/6/2022 9:00	1034.2
10/6/2022 9:00	10/6/2022 10:00	1061.0
10/6/2022 10:00	10/6/2022 11:00	1080.4
10/6/2022 11:00	10/6/2022 12:00	1087.4
10/6/2022 12:00	10/6/2022 13:00	1089.8
10/6/2022 13:00	10/6/2022 14:00	1082.8
10/6/2022 14:00	10/6/2022 15:00	1067.7
10/6/2022 15:00	10/6/2022 16:00	1061.6
10/6/2022 16:00	10/6/2022 17:00	1075.9
10/6/2022 17:00	10/6/2022 18:00	1091.1
10/6/2022 18:00	10/6/2022 19:00	1092.1
10/6/2022 19:00	10/6/2022 20:00	1072.6
10/6/2022 20:00	10/6/2022 21:00	1032.7
10/6/2022 21:00	10/6/2022 22:00	1004.9
10/6/2022 22:00	10/6/2022 23:00	1004.8
10/6/2022 23:00	10/7/2022 0:00	964.4
10/7/2022 0:00	10/7/2022 1:00	960.9
10/7/2022 1:00	10/7/2022 2:00	928.9
10/7/2022 2:00	10/7/2022 3:00	906.7
10/7/2022 3:00	10/7/2022 4:00	901.8
10/7/2022 4:00	10/7/2022 5:00	949.7
10/7/2022 5:00	10/7/2022 6:00	998.6
10/7/2022 6:00	10/7/2022 7:00	1057.2
10/7/2022 7:00	10/7/2022 8:00	1066.2
10/7/2022 8:00	10/7/2022 9:00	1106.0
10/7/2022 9:00	10/7/2022 10:00	1118.6
10/7/2022 10:00	10/7/2022 11:00	1110.2
10/7/2022 11:00	10/7/2022 12:00	1105.8
10/7/2022 12:00	10/7/2022 13:00	1093.8
10/7/2022 13:00	10/7/2022 14:00	1068.4
10/7/2022 14:00	10/7/2022 15:00	1055.7
10/7/2022 15:00	10/7/2022 16:00	1058.9
10/7/2022 16:00	10/7/2022 17:00	1065.7
10/7/2022 17:00	10/7/2022 18:00	1074.1
10/7/2022 18:00	10/7/2022 19:00	1073.4
10/7/2022 19:00	10/7/2022 20:00	1116.4
10/7/2022 20:00	10/7/2022 21:00	1063.0
10/7/2022 21:00	10/7/2022 22:00	1040.4
10/7/2022 22:00	10/7/2022 23:00	955.4
10/7/2022 23:00	10/8/2022 0:00	878.8
10/8/2022 0:00	10/8/2022 1:00	814.8
10/8/2022 1:00	10/8/2022 2:00	793.3
10/8/2022 2:00	10/8/2022 3:00	789.4
10/8/2022 3:00	10/8/2022 4:00	798.5
10/8/2022 4:00	10/8/2022 5:00	827.1
10/8/2022 5:00	10/8/2022 6:00	815.1
10/8/2022 6:00	10/8/2022 7:00	833.3
10/8/2022 7:00	10/8/2022 8:00	884.6
10/8/2022 8:00	10/8/2022 9:00	926.4
10/8/2022 9:00	10/8/2022 10:00	994.6
10/8/2022 10:00	10/8/2022 11:00	1058.5
10/8/2022 11:00	10/8/2022 12:00	1105.2
10/8/2022 12:00	10/8/2022 13:00	1092.9
10/8/2022 13:00	10/8/2022 14:00	1055.6
10/8/2022 14:00	10/8/2022 15:00	946.5
10/8/2022 15:00	10/8/2022 16:00	929.1
10/8/2022 16:00	10/8/2022 17:00	977.6

Start Time	End Time	ANL_MW
10/8/2022 17:00	10/8/2022 18:00	1020.3
10/8/2022 18:00	10/8/2022 19:00	1040.1
10/8/2022 19:00	10/8/2022 20:00	1040.6
10/8/2022 20:00	10/8/2022 21:00	1020.9
10/8/2022 21:00	10/8/2022 22:00	1018.0
10/8/2022 22:00	10/8/2022 23:00	995.5
10/8/2022 23:00	10/9/2022 0:00	950.6
10/9/2022 0:00	10/9/2022 1:00	908.4
10/9/2022 1:00	10/9/2022 2:00	903.3
10/9/2022 2:00	10/9/2022 3:00	907.9
10/9/2022 3:00	10/9/2022 4:00	924.1
10/9/2022 4:00	10/9/2022 5:00	958.7
10/9/2022 5:00	10/9/2022 6:00	989.9
10/9/2022 6:00	10/9/2022 7:00	1035.1
10/9/2022 7:00	10/9/2022 8:00	1056.8
10/9/2022 8:00	10/9/2022 9:00	1145.1
10/9/2022 9:00	10/9/2022 10:00	1173.2
10/9/2022 10:00	10/9/2022 11:00	1152.7
10/9/2022 11:00	10/9/2022 12:00	1087.2
10/9/2022 12:00	10/9/2022 13:00	1000.4
10/9/2022 13:00	10/9/2022 14:00	945.7
10/9/2022 14:00	10/9/2022 15:00	920.2
10/9/2022 15:00	10/9/2022 16:00	923.1
10/9/2022 16:00	10/9/2022 17:00	931.3
10/9/2022 17:00	10/9/2022 18:00	959.3
10/9/2022 18:00	10/9/2022 19:00	979.7
10/9/2022 19:00	10/9/2022 20:00	1005.6
10/9/2022 20:00	10/9/2022 21:00	951.1
10/9/2022 21:00	10/9/2022 22:00	886.4
10/9/2022 22:00	10/9/2022 23:00	781.5
10/9/2022 23:00	10/10/2022 0:00	723.4
10/10/2022 0:00	10/10/2022 1:00	744.4
10/10/2022 1:00	10/10/2022 2:00	838.9
10/10/2022 2:00	10/10/2022 3:00	855.3
10/10/2022 3:00	10/10/2022 4:00	884.8
10/10/2022 4:00	10/10/2022 5:00	896.8
10/10/2022 5:00	10/10/2022 6:00	905.1
10/10/2022 6:00	10/10/2022 7:00	990.0
10/10/2022 7:00	10/10/2022 8:00	1073.0
10/10/2022 8:00	10/10/2022 9:00	1097.5
10/10/2022 9:00	10/10/2022 10:00	1150.2
10/10/2022 10:00	10/10/2022 11:00	1157.5
10/10/2022 11:00	10/10/2022 12:00	1152.5
10/10/2022 12:00	10/10/2022 13:00	1127.6
10/10/2022 13:00	10/10/2022 14:00	1091.9
10/10/2022 14:00	10/10/2022 15:00	1045.6
10/10/2022 15:00	10/10/2022 16:00	1026.2
10/10/2022 16:00	10/10/2022 17:00	1037.6
10/10/2022 17:00	10/10/2022 18:00	1051.0
10/10/2022 18:00	10/10/2022 19:00	1088.3
10/10/2022 19:00	10/10/2022 20:00	1112.1
10/10/2022 20:00	10/10/2022 21:00	1063.1
10/10/2022 21:00	10/10/2022 22:00	1004.7
10/10/2022 22:00	10/10/2022 23:00	979.0
10/10/2022 23:00	10/11/2022 0:00	939.8
10/11/2022 0:00	10/11/2022 1:00	901.0
10/11/2022 1:00	10/11/2022 2:00	884.1
10/11/2022 2:00	10/11/2022 3:00	880.6
10/11/2022 3:00	10/11/2022 4:00	909.5
10/11/2022 4:00	10/11/2022 5:00	940.9
10/11/2022 5:00	10/11/2022 6:00	1011.0
10/11/2022 6:00	10/11/2022 7:00	1168.1
10/11/2022 7:00	10/11/2022 8:00	1241.0
10/11/2022 8:00	10/11/2022 9:00	1257.8
10/11/2022 9:00	10/11/2022 10:00	1237.7
10/11/2022 10:00	10/11/2022 11:00	1191.0
10/11/2022 11:00	10/11/2022 12:00	1129.8
10/11/2022 12:00	10/11/2022 13:00	1077.9
10/11/2022 13:00	10/11/2022 14:00	1040.5
10/11/2022 14:00	10/11/2022 15:00	1000.6

Start Time	End Time	ANL_MW
10/11/2022 15:00	10/11/2022 16:00	982.2
10/11/2022 16:00	10/11/2022 17:00	1008.3
10/11/2022 17:00	10/11/2022 18:00	1033.4
10/11/2022 18:00	10/11/2022 19:00	1054.2
10/11/2022 19:00	10/11/2022 20:00	1066.0
10/11/2022 20:00	10/11/2022 21:00	1006.7
10/11/2022 21:00	10/11/2022 22:00	925.8
10/11/2022 22:00	10/11/2022 23:00	863.0
10/11/2022 23:00	10/12/2022 0:00	879.8
10/12/2022 0:00	10/12/2022 1:00	858.2
10/12/2022 1:00	10/12/2022 2:00	837.4
10/12/2022 2:00	10/12/2022 3:00	850.1
10/12/2022 3:00	10/12/2022 4:00	857.8
10/12/2022 4:00	10/12/2022 5:00	880.2
10/12/2022 5:00	10/12/2022 6:00	954.7
10/12/2022 6:00	10/12/2022 7:00	1111.0
10/12/2022 7:00	10/12/2022 8:00	1155.5
10/12/2022 8:00	10/12/2022 9:00	1178.5
10/12/2022 9:00	10/12/2022 10:00	1181.9
10/12/2022 10:00	10/12/2022 11:00	1158.2
10/12/2022 11:00	10/12/2022 12:00	1115.6
10/12/2022 12:00	10/12/2022 13:00	1052.4
10/12/2022 13:00	10/12/2022 14:00	997.9
10/12/2022 14:00	10/12/2022 15:00	976.1
10/12/2022 15:00	10/12/2022 16:00	985.1
10/12/2022 16:00	10/12/2022 17:00	1035.9
10/12/2022 17:00	10/12/2022 18:00	1113.8
10/12/2022 18:00	10/12/2022 19:00	1136.8
10/12/2022 19:00	10/12/2022 20:00	1143.4
10/12/2022 20:00	10/12/2022 21:00	1116.9
10/12/2022 21:00	10/12/2022 22:00	1107.8
10/12/2022 22:00	10/12/2022 23:00	1057.2
10/12/2022 23:00	10/13/2022 0:00	945.8
10/13/2022 0:00	10/13/2022 1:00	882.0
10/13/2022 1:00	10/13/2022 2:00	861.4
10/13/2022 2:00	10/13/2022 3:00	846.1
10/13/2022 3:00	10/13/2022 4:00	841.1
10/13/2022 4:00	10/13/2022 5:00	860.9
10/13/2022 5:00	10/13/2022 6:00	912.6
10/13/2022 6:00	10/13/2022 7:00	1041.4
10/13/2022 7:00	10/13/2022 8:00	1141.8
10/13/2022 8:00	10/13/2022 9:00	1159.0
10/13/2022 9:00	10/13/2022 10:00	1173.6
10/13/2022 10:00	10/13/2022 11:00	1178.6
10/13/2022 11:00	10/13/2022 12:00	1164.9
10/13/2022 12:00	10/13/2022 13:00	1139.7
10/13/2022 13:00	10/13/2022 14:00	1118.6
10/13/2022 14:00	10/13/2022 15:00	1093.9
10/13/2022 15:00	10/13/2022 16:00	1139.5
10/13/2022 16:00	10/13/2022 17:00	1177.7
10/13/2022 17:00	10/13/2022 18:00	1177.6
10/13/2022 18:00	10/13/2022 19:00	1154.1
10/13/2022 19:00	10/13/2022 20:00	1142.0
10/13/2022 20:00	10/13/2022 21:00	1109.7
10/13/2022 21:00	10/13/2022 22:00	1036.4
10/13/2022 22:00	10/13/2022 23:00	926.6
10/13/2022 23:00	10/14/2022 0:00	861.3
10/14/2022 0:00	10/14/2022 1:00	804.2
10/14/2022 1:00	10/14/2022 2:00	783.1
10/14/2022 2:00	10/14/2022 3:00	742.5
10/14/2022 3:00	10/14/2022 4:00	738.5
10/14/2022 4:00	10/14/2022 5:00	742.8
10/14/2022 5:00	10/14/2022 6:00	769.3
10/14/2022 6:00	10/14/2022 7:00	861.6
10/14/2022 7:00	10/14/2022 8:00	968.1
10/14/2022 8:00	10/14/2022 9:00	995.6
10/14/2022 9:00	10/14/2022 10:00	997.4
10/14/2022 10:00	10/14/2022 11:00	959.8
10/14/2022 11:00	10/14/2022 12:00	958.0
10/14/2022 12:00	10/14/2022 13:00	933.8

Start Time	End Time	ANL_MW
10/14/2022 13:00	10/14/2022 14:00	885.0
10/14/2022 14:00	10/14/2022 15:00	835.0
10/14/2022 15:00	10/14/2022 16:00	847.0
10/14/2022 16:00	10/14/2022 17:00	874.7
10/14/2022 17:00	10/14/2022 18:00	918.9
10/14/2022 18:00	10/14/2022 19:00	926.2
10/14/2022 19:00	10/14/2022 20:00	889.0
10/14/2022 20:00	10/14/2022 21:00	845.4
10/14/2022 21:00	10/14/2022 22:00	823.8
10/14/2022 22:00	10/14/2022 23:00	768.4
10/14/2022 23:00	10/15/2022 0:00	714.8
10/15/2022 0:00	10/15/2022 1:00	658.2
10/15/2022 1:00	10/15/2022 2:00	627.0
10/15/2022 2:00	10/15/2022 3:00	603.0
10/15/2022 3:00	10/15/2022 4:00	588.2
10/15/2022 4:00	10/15/2022 5:00	582.5
10/15/2022 5:00	10/15/2022 6:00	600.6
10/15/2022 6:00	10/15/2022 7:00	630.8
10/15/2022 7:00	10/15/2022 8:00	694.3
10/15/2022 8:00	10/15/2022 9:00	775.7
10/15/2022 9:00	10/15/2022 10:00	851.7
10/15/2022 10:00	10/15/2022 11:00	895.2
10/15/2022 11:00	10/15/2022 12:00	915.5
10/15/2022 12:00	10/15/2022 13:00	917.7
10/15/2022 13:00	10/15/2022 14:00	908.8
10/15/2022 14:00	10/15/2022 15:00	913.0
10/15/2022 15:00	10/15/2022 16:00	868.4
10/15/2022 16:00	10/15/2022 17:00	916.5
10/15/2022 17:00	10/15/2022 18:00	918.4
10/15/2022 18:00	10/15/2022 19:00	892.9
10/15/2022 19:00	10/15/2022 20:00	898.0
10/15/2022 20:00	10/15/2022 21:00	902.0
10/15/2022 21:00	10/15/2022 22:00	853.6
10/15/2022 22:00	10/15/2022 23:00	833.3
10/15/2022 23:00	10/16/2022 0:00	805.8
10/16/2022 0:00	10/16/2022 1:00	795.6
10/16/2022 1:00	10/16/2022 2:00	797.3
10/16/2022 2:00	10/16/2022 3:00	791.4
10/16/2022 3:00	10/16/2022 4:00	734.8
10/16/2022 4:00	10/16/2022 5:00	748.9
10/16/2022 5:00	10/16/2022 6:00	788.0
10/16/2022 6:00	10/16/2022 7:00	829.8
10/16/2022 7:00	10/16/2022 8:00	896.1
10/16/2022 8:00	10/16/2022 9:00	1000.5
10/16/2022 9:00	10/16/2022 10:00	1042.0
10/16/2022 10:00	10/16/2022 11:00	1101.3
10/16/2022 11:00	10/16/2022 12:00	1130.1
10/16/2022 12:00	10/16/2022 13:00	1135.0
10/16/2022 13:00	10/16/2022 14:00	1118.6
10/16/2022 14:00	10/16/2022 15:00	1100.5
10/16/2022 15:00	10/16/2022 16:00	1119.1
10/16/2022 16:00	10/16/2022 17:00	1161.2
10/16/2022 17:00	10/16/2022 18:00	1184.5
10/16/2022 18:00	10/16/2022 19:00	1192.5
10/16/2022 19:00	10/16/2022 20:00	1194.1
10/16/2022 20:00	10/16/2022 21:00	1132.4
10/16/2022 21:00	10/16/2022 22:00	1073.5
10/16/2022 22:00	10/16/2022 23:00	1044.1
10/16/2022 23:00	10/17/2022 0:00	966.0
10/17/2022 0:00	10/17/2022 1:00	910.0
10/17/2022 1:00	10/17/2022 2:00	887.6
10/17/2022 2:00	10/17/2022 3:00	883.9
10/17/2022 3:00	10/17/2022 4:00	874.0
10/17/2022 4:00	10/17/2022 5:00	887.5
10/17/2022 5:00	10/17/2022 6:00	935.2
10/17/2022 6:00	10/17/2022 7:00	990.9
10/17/2022 7:00	10/17/2022 8:00	1120.0
10/17/2022 8:00	10/17/2022 9:00	1160.1
10/17/2022 9:00	10/17/2022 10:00	1169.4
10/17/2022 10:00	10/17/2022 11:00	1171.4

Start Time	End Time	ANL_MW
10/17/2022 11:00	10/17/2022 12:00	1168.2
10/17/2022 12:00	10/17/2022 13:00	1150.3
10/17/2022 13:00	10/17/2022 14:00	1121.0
10/17/2022 14:00	10/17/2022 15:00	1096.9
10/17/2022 15:00	10/17/2022 16:00	1121.6
10/17/2022 16:00	10/17/2022 17:00	1173.9
10/17/2022 17:00	10/17/2022 18:00	1204.2
10/17/2022 18:00	10/17/2022 19:00	1204.4
10/17/2022 19:00	10/17/2022 20:00	1183.0
10/17/2022 20:00	10/17/2022 21:00	1109.5
10/17/2022 21:00	10/17/2022 22:00	1035.3
10/17/2022 22:00	10/17/2022 23:00	951.2
10/17/2022 23:00	10/18/2022 0:00	878.4
10/18/2022 0:00	10/18/2022 1:00	819.6
10/18/2022 1:00	10/18/2022 2:00	752.5
10/18/2022 2:00	10/18/2022 3:00	733.7
10/18/2022 3:00	10/18/2022 4:00	724.3
10/18/2022 4:00	10/18/2022 5:00	708.3
10/18/2022 5:00	10/18/2022 6:00	734.6
10/18/2022 6:00	10/18/2022 7:00	832.0
10/18/2022 7:00	10/18/2022 8:00	910.0
10/18/2022 8:00	10/18/2022 9:00	901.9
10/18/2022 9:00	10/18/2022 10:00	917.2
10/18/2022 10:00	10/18/2022 11:00	897.1
10/18/2022 11:00	10/18/2022 12:00	892.9
10/18/2022 12:00	10/18/2022 13:00	858.2
10/18/2022 13:00	10/18/2022 14:00	817.1
10/18/2022 14:00	10/18/2022 15:00	799.9
10/18/2022 15:00	10/18/2022 16:00	805.7
10/18/2022 16:00	10/18/2022 17:00	844.5
10/18/2022 17:00	10/18/2022 18:00	899.8
10/18/2022 18:00	10/18/2022 19:00	894.0
10/18/2022 19:00	10/18/2022 20:00	881.2
10/18/2022 20:00	10/18/2022 21:00	836.8
10/18/2022 21:00	10/18/2022 22:00	765.7
10/18/2022 22:00	10/18/2022 23:00	762.8
10/18/2022 23:00	10/19/2022 0:00	706.1
10/19/2022 0:00	10/19/2022 1:00	642.8
10/19/2022 1:00	10/19/2022 2:00	619.8
10/19/2022 2:00	10/19/2022 3:00	620.2
10/19/2022 3:00	10/19/2022 4:00	616.6
10/19/2022 4:00	10/19/2022 5:00	604.5
10/19/2022 5:00	10/19/2022 6:00	642.5
10/19/2022 6:00	10/19/2022 7:00	729.0
10/19/2022 7:00	10/19/2022 8:00	792.0
10/19/2022 8:00	10/19/2022 9:00	773.3
10/19/2022 9:00	10/19/2022 10:00	777.9
10/19/2022 10:00	10/19/2022 11:00	786.0
10/19/2022 11:00	10/19/2022 12:00	802.3
10/19/2022 12:00	10/19/2022 13:00	802.9
10/19/2022 13:00	10/19/2022 14:00	808.8
10/19/2022 14:00	10/19/2022 15:00	788.1
10/19/2022 15:00	10/19/2022 16:00	818.9
10/19/2022 16:00	10/19/2022 17:00	865.3
10/19/2022 17:00	10/19/2022 18:00	931.2
10/19/2022 18:00	10/19/2022 19:00	953.8
10/19/2022 19:00	10/19/2022 20:00	924.1
10/19/2022 20:00	10/19/2022 21:00	846.5
10/19/2022 21:00	10/19/2022 22:00	793.2
10/19/2022 22:00	10/19/2022 23:00	724.3
10/19/2022 23:00	10/20/2022 0:00	671.9
10/20/2022 0:00	10/20/2022 1:00	637.6
10/20/2022 1:00	10/20/2022 2:00	621.7
10/20/2022 2:00	10/20/2022 3:00	650.4
10/20/2022 3:00	10/20/2022 4:00	650.4
10/20/2022 4:00	10/20/2022 5:00	641.0
10/20/2022 5:00	10/20/2022 6:00	670.4
10/20/2022 6:00	10/20/2022 7:00	789.6
10/20/2022 7:00	10/20/2022 8:00	898.3
10/20/2022 8:00	10/20/2022 9:00	954.3

Start Time	End Time	ANL_MW
10/20/2022 9:00	10/20/2022 10:00	963.0
10/20/2022 10:00	10/20/2022 11:00	955.8
10/20/2022 11:00	10/20/2022 12:00	916.6
10/20/2022 12:00	10/20/2022 13:00	857.3
10/20/2022 13:00	10/20/2022 14:00	841.5
10/20/2022 14:00	10/20/2022 15:00	852.8
10/20/2022 15:00	10/20/2022 16:00	875.3
10/20/2022 16:00	10/20/2022 17:00	931.7
10/20/2022 17:00	10/20/2022 18:00	995.5
10/20/2022 18:00	10/20/2022 19:00	1024.3
10/20/2022 19:00	10/20/2022 20:00	989.2
10/20/2022 20:00	10/20/2022 21:00	893.3
10/20/2022 21:00	10/20/2022 22:00	767.5
10/20/2022 22:00	10/20/2022 23:00	702.5
10/20/2022 23:00	10/21/2022 0:00	675.7
10/21/2022 0:00	10/21/2022 1:00	656.0
10/21/2022 1:00	10/21/2022 2:00	652.9
10/21/2022 2:00	10/21/2022 3:00	640.0
10/21/2022 3:00	10/21/2022 4:00	640.2
10/21/2022 4:00	10/21/2022 5:00	646.8
10/21/2022 5:00	10/21/2022 6:00	702.3
10/21/2022 6:00	10/21/2022 7:00	825.3
10/21/2022 7:00	10/21/2022 8:00	960.3
10/21/2022 8:00	10/21/2022 9:00	1006.5
10/21/2022 9:00	10/21/2022 10:00	1015.6
10/21/2022 10:00	10/21/2022 11:00	1042.7
10/21/2022 11:00	10/21/2022 12:00	1011.0
10/21/2022 12:00	10/21/2022 13:00	930.5
10/21/2022 13:00	10/21/2022 14:00	889.8
10/21/2022 14:00	10/21/2022 15:00	882.0
10/21/2022 15:00	10/21/2022 16:00	892.3
10/21/2022 16:00	10/21/2022 17:00	966.4
10/21/2022 17:00	10/21/2022 18:00	1017.4
10/21/2022 18:00	10/21/2022 19:00	1044.4
10/21/2022 19:00	10/21/2022 20:00	1031.1
10/21/2022 20:00	10/21/2022 21:00	991.5
10/21/2022 21:00	10/21/2022 22:00	942.7
10/21/2022 22:00	10/21/2022 23:00	967.0
10/21/2022 23:00	10/22/2022 0:00	941.2
10/22/2022 0:00	10/22/2022 1:00	899.6
10/22/2022 1:00	10/22/2022 2:00	871.0
10/22/2022 2:00	10/22/2022 3:00	856.9
10/22/2022 3:00	10/22/2022 4:00	845.0
10/22/2022 4:00	10/22/2022 5:00	861.4
10/22/2022 5:00	10/22/2022 6:00	904.0
10/22/2022 6:00	10/22/2022 7:00	961.2
10/22/2022 7:00	10/22/2022 8:00	1045.1
10/22/2022 8:00	10/22/2022 9:00	1101.4
10/22/2022 9:00	10/22/2022 10:00	1149.7
10/22/2022 10:00	10/22/2022 11:00	1128.0
10/22/2022 11:00	10/22/2022 12:00	1119.1
10/22/2022 12:00	10/22/2022 13:00	1061.0
10/22/2022 13:00	10/22/2022 14:00	1001.7
10/22/2022 14:00	10/22/2022 15:00	1000.8
10/22/2022 15:00	10/22/2022 16:00	952.1
10/22/2022 16:00	10/22/2022 17:00	904.8
10/22/2022 17:00	10/22/2022 18:00	951.9
10/22/2022 18:00	10/22/2022 19:00	914.5
10/22/2022 19:00	10/22/2022 20:00	878.2
10/22/2022 20:00	10/22/2022 21:00	855.4
10/22/2022 21:00	10/22/2022 22:00	893.0
10/22/2022 22:00	10/22/2022 23:00	837.7
10/22/2022 23:00	10/23/2022 0:00	852.7
10/23/2022 0:00	10/23/2022 1:00	822.5
10/23/2022 1:00	10/23/2022 2:00	828.7
10/23/2022 2:00	10/23/2022 3:00	793.3
10/23/2022 3:00	10/23/2022 4:00	780.9
10/23/2022 4:00	10/23/2022 5:00	822.9
10/23/2022 5:00	10/23/2022 6:00	859.0
10/23/2022 6:00	10/23/2022 7:00	891.7

Start Time	End Time	ANL_MW
10/23/2022 7:00	10/23/2022 8:00	939.6
10/23/2022 8:00	10/23/2022 9:00	1017.7
10/23/2022 9:00	10/23/2022 10:00	1107.0
10/23/2022 10:00	10/23/2022 11:00	1161.1
10/23/2022 11:00	10/23/2022 12:00	1115.5
10/23/2022 12:00	10/23/2022 13:00	1112.9
10/23/2022 13:00	10/23/2022 14:00	1142.7
10/23/2022 14:00	10/23/2022 15:00	1127.4
10/23/2022 15:00	10/23/2022 16:00	1136.6
10/23/2022 16:00	10/23/2022 17:00	1173.1
10/23/2022 17:00	10/23/2022 18:00	1197.3
10/23/2022 18:00	10/23/2022 19:00	1216.5
10/23/2022 19:00	10/23/2022 20:00	1218.0
10/23/2022 20:00	10/23/2022 21:00	1183.3
10/23/2022 21:00	10/23/2022 22:00	1124.9
10/23/2022 22:00	10/23/2022 23:00	1057.0
10/23/2022 23:00	10/24/2022 0:00	986.7
10/24/2022 0:00	10/24/2022 1:00	970.8
10/24/2022 1:00	10/24/2022 2:00	943.1
10/24/2022 2:00	10/24/2022 3:00	923.5
10/24/2022 3:00	10/24/2022 4:00	918.2
10/24/2022 4:00	10/24/2022 5:00	914.2
10/24/2022 5:00	10/24/2022 6:00	951.0
10/24/2022 6:00	10/24/2022 7:00	1078.1
10/24/2022 7:00	10/24/2022 8:00	1162.4
10/24/2022 8:00	10/24/2022 9:00	1172.9
10/24/2022 9:00	10/24/2022 10:00	1179.5
10/24/2022 10:00	10/24/2022 11:00	1181.6
10/24/2022 11:00	10/24/2022 12:00	1171.7
10/24/2022 12:00	10/24/2022 13:00	1159.2
10/24/2022 13:00	10/24/2022 14:00	1151.5
10/24/2022 14:00	10/24/2022 15:00	1143.5
10/24/2022 15:00	10/24/2022 16:00	1150.4
10/24/2022 16:00	10/24/2022 17:00	1183.6
10/24/2022 17:00	10/24/2022 18:00	1203.8
10/24/2022 18:00	10/24/2022 19:00	1196.7
10/24/2022 19:00	10/24/2022 20:00	1155.0
10/24/2022 20:00	10/24/2022 21:00	1091.9
10/24/2022 21:00	10/24/2022 22:00	1016.0
10/24/2022 22:00	10/24/2022 23:00	955.6
10/24/2022 23:00	10/25/2022 0:00	867.1
10/25/2022 0:00	10/25/2022 1:00	792.2
10/25/2022 1:00	10/25/2022 2:00	747.6
10/25/2022 2:00	10/25/2022 3:00	708.4
10/25/2022 3:00	10/25/2022 4:00	711.7
10/25/2022 4:00	10/25/2022 5:00	724.2
10/25/2022 5:00	10/25/2022 6:00	761.3
10/25/2022 6:00	10/25/2022 7:00	882.2
10/25/2022 7:00	10/25/2022 8:00	1031.5
10/25/2022 8:00	10/25/2022 9:00	1077.4
10/25/2022 9:00	10/25/2022 10:00	1100.5
10/25/2022 10:00	10/25/2022 11:00	1121.6
10/25/2022 11:00	10/25/2022 12:00	1145.0
10/25/2022 12:00	10/25/2022 13:00	1147.6
10/25/2022 13:00	10/25/2022 14:00	1133.5
10/25/2022 14:00	10/25/2022 15:00	1127.5
10/25/2022 15:00	10/25/2022 16:00	1123.7
10/25/2022 16:00	10/25/2022 17:00	1155.9
10/25/2022 17:00	10/25/2022 18:00	1181.6
10/25/2022 18:00	10/25/2022 19:00	1195.1
10/25/2022 19:00	10/25/2022 20:00	1182.4
10/25/2022 20:00	10/25/2022 21:00	1139.4
10/25/2022 21:00	10/25/2022 22:00	1119.5
10/25/2022 22:00	10/25/2022 23:00	1048.1
10/25/2022 23:00	10/26/2022 0:00	975.6
10/26/2022 0:00	10/26/2022 1:00	922.2
10/26/2022 1:00	10/26/2022 2:00	880.4
10/26/2022 2:00	10/26/2022 3:00	876.6
10/26/2022 3:00	10/26/2022 4:00	869.3
10/26/2022 4:00	10/26/2022 5:00	868.5

Start Time	End Time	ANL_MW
10/26/2022 5:00	10/26/2022 6:00	913.8
10/26/2022 6:00	10/26/2022 7:00	1038.7
10/26/2022 7:00	10/26/2022 8:00	1155.6
10/26/2022 8:00	10/26/2022 9:00	1158.9
10/26/2022 9:00	10/26/2022 10:00	1158.5
10/26/2022 10:00	10/26/2022 11:00	1169.9
10/26/2022 11:00	10/26/2022 12:00	1140.8
10/26/2022 12:00	10/26/2022 13:00	1127.7
10/26/2022 13:00	10/26/2022 14:00	1085.6
10/26/2022 14:00	10/26/2022 15:00	1068.9
10/26/2022 15:00	10/26/2022 16:00	1053.7
10/26/2022 16:00	10/26/2022 17:00	1070.0
10/26/2022 17:00	10/26/2022 18:00	1065.2
10/26/2022 18:00	10/26/2022 19:00	1035.1
10/26/2022 19:00	10/26/2022 20:00	989.5
10/26/2022 20:00	10/26/2022 21:00	971.0
10/26/2022 21:00	10/26/2022 22:00	875.9
10/26/2022 22:00	10/26/2022 23:00	782.8
10/26/2022 23:00	10/27/2022 0:00	734.2
10/27/2022 0:00	10/27/2022 1:00	676.8
10/27/2022 1:00	10/27/2022 2:00	616.2
10/27/2022 2:00	10/27/2022 3:00	619.2
10/27/2022 3:00	10/27/2022 4:00	621.6
10/27/2022 4:00	10/27/2022 5:00	664.0
10/27/2022 5:00	10/27/2022 6:00	699.0
10/27/2022 6:00	10/27/2022 7:00	834.7
10/27/2022 7:00	10/27/2022 8:00	920.1
10/27/2022 8:00	10/27/2022 9:00	960.6
10/27/2022 9:00	10/27/2022 10:00	988.7
10/27/2022 10:00	10/27/2022 11:00	996.2
10/27/2022 11:00	10/27/2022 12:00	1009.5
10/27/2022 12:00	10/27/2022 13:00	1006.2
10/27/2022 13:00	10/27/2022 14:00	978.3
10/27/2022 14:00	10/27/2022 15:00	979.1
10/27/2022 15:00	10/27/2022 16:00	998.3
10/27/2022 16:00	10/27/2022 17:00	1043.0
10/27/2022 17:00	10/27/2022 18:00	1119.3
10/27/2022 18:00	10/27/2022 19:00	1131.8
10/27/2022 19:00	10/27/2022 20:00	1076.6
10/27/2022 20:00	10/27/2022 21:00	1007.1
10/27/2022 21:00	10/27/2022 22:00	832.8
10/27/2022 22:00	10/27/2022 23:00	725.7
10/27/2022 23:00	10/28/2022 0:00	672.5
10/28/2022 0:00	10/28/2022 1:00	644.1
10/28/2022 1:00	10/28/2022 2:00	635.5
10/28/2022 2:00	10/28/2022 3:00	623.9
10/28/2022 3:00	10/28/2022 4:00	604.8
10/28/2022 4:00	10/28/2022 5:00	622.3
10/28/2022 5:00	10/28/2022 6:00	666.1
10/28/2022 6:00	10/28/2022 7:00	816.1
10/28/2022 7:00	10/28/2022 8:00	941.4
10/28/2022 8:00	10/28/2022 9:00	928.8
10/28/2022 9:00	10/28/2022 10:00	960.2
10/28/2022 10:00	10/28/2022 11:00	979.6
10/28/2022 11:00	10/28/2022 12:00	1005.3
10/28/2022 12:00	10/28/2022 13:00	1050.4
10/28/2022 13:00	10/28/2022 14:00	1044.9
10/28/2022 14:00	10/28/2022 15:00	1042.6
10/28/2022 15:00	10/28/2022 16:00	1051.3
10/28/2022 16:00	10/28/2022 17:00	1099.8
10/28/2022 17:00	10/28/2022 18:00	1165.9
10/28/2022 18:00	10/28/2022 19:00	1212.2
10/28/2022 19:00	10/28/2022 20:00	1214.8
10/28/2022 20:00	10/28/2022 21:00	1176.3
10/28/2022 21:00	10/28/2022 22:00	1145.2
10/28/2022 22:00	10/28/2022 23:00	1103.5
10/28/2022 23:00	10/29/2022 0:00	1085.9
10/29/2022 0:00	10/29/2022 1:00	1062.3
10/29/2022 1:00	10/29/2022 2:00	1031.2
10/29/2022 2:00	10/29/2022 3:00	1069.0

Start Time	End Time	ANL_MW
10/29/2022 3:00	10/29/2022 4:00	1057.7
10/29/2022 4:00	10/29/2022 5:00	1094.0
10/29/2022 5:00	10/29/2022 6:00	1118.8
10/29/2022 6:00	10/29/2022 7:00	1133.4
10/29/2022 7:00	10/29/2022 8:00	1176.1
10/29/2022 8:00	10/29/2022 9:00	1218.1
10/29/2022 9:00	10/29/2022 10:00	1216.1
10/29/2022 10:00	10/29/2022 11:00	1190.6
10/29/2022 11:00	10/29/2022 12:00	1133.3
10/29/2022 12:00	10/29/2022 13:00	1101.1
10/29/2022 13:00	10/29/2022 14:00	1070.4
10/29/2022 14:00	10/29/2022 15:00	1027.9
10/29/2022 15:00	10/29/2022 16:00	1006.1
10/29/2022 16:00	10/29/2022 17:00	1014.8
10/29/2022 17:00	10/29/2022 18:00	1058.6
10/29/2022 18:00	10/29/2022 19:00	1071.6
10/29/2022 19:00	10/29/2022 20:00	1043.1
10/29/2022 20:00	10/29/2022 21:00	986.8
10/29/2022 21:00	10/29/2022 22:00	902.6
10/29/2022 22:00	10/29/2022 23:00	875.3
10/29/2022 23:00	10/30/2022 0:00	849.8
10/30/2022 0:00	10/30/2022 1:00	836.9
10/30/2022 1:00	10/30/2022 2:00	816.5
10/30/2022 2:00	10/30/2022 3:00	828.1
10/30/2022 3:00	10/30/2022 4:00	842.1
10/30/2022 4:00	10/30/2022 5:00	840.4
10/30/2022 5:00	10/30/2022 6:00	874.8
10/30/2022 6:00	10/30/2022 7:00	918.4
10/30/2022 7:00	10/30/2022 8:00	982.2
10/30/2022 8:00	10/30/2022 9:00	1069.5
10/30/2022 9:00	10/30/2022 10:00	1141.3
10/30/2022 10:00	10/30/2022 11:00	1128.0
10/30/2022 11:00	10/30/2022 12:00	1094.5
10/30/2022 12:00	10/30/2022 13:00	1067.0
10/30/2022 13:00	10/30/2022 14:00	1057.1
10/30/2022 14:00	10/30/2022 15:00	1049.6
10/30/2022 15:00	10/30/2022 16:00	1065.3
10/30/2022 16:00	10/30/2022 17:00	1125.8
10/30/2022 17:00	10/30/2022 18:00	1183.8
10/30/2022 18:00	10/30/2022 19:00	1171.8
10/30/2022 19:00	10/30/2022 20:00	1175.4
10/30/2022 20:00	10/30/2022 21:00	1134.8
10/30/2022 21:00	10/30/2022 22:00	1113.9
10/30/2022 22:00	10/30/2022 23:00	1026.5
10/30/2022 23:00	10/31/2022 0:00	947.1
10/31/2022 0:00	10/31/2022 1:00	917.6
10/31/2022 1:00	10/31/2022 2:00	908.0
10/31/2022 2:00	10/31/2022 3:00	885.5
10/31/2022 3:00	10/31/2022 4:00	879.8
10/31/2022 4:00	10/31/2022 5:00	905.7
10/31/2022 5:00	10/31/2022 6:00	964.4
10/31/2022 6:00	10/31/2022 7:00	1046.8
10/31/2022 7:00	10/31/2022 8:00	1110.8
10/31/2022 8:00	10/31/2022 9:00	1124.5
10/31/2022 9:00	10/31/2022 10:00	1118.7
10/31/2022 10:00	10/31/2022 11:00	1125.8
10/31/2022 11:00	10/31/2022 12:00	1135.6
10/31/2022 12:00	10/31/2022 13:00	1135.8
10/31/2022 13:00	10/31/2022 14:00	1111.9
10/31/2022 14:00	10/31/2022 15:00	1087.1
10/31/2022 15:00	10/31/2022 16:00	1106.7
10/31/2022 16:00	10/31/2022 17:00	1135.9
10/31/2022 17:00	10/31/2022 18:00	1113.0
10/31/2022 18:00	10/31/2022 19:00	1065.9
10/31/2022 19:00	10/31/2022 20:00	1066.2
10/31/2022 20:00	10/31/2022 21:00	1139.8
10/31/2022 21:00	10/31/2022 22:00	1106.6
10/31/2022 22:00	10/31/2022 23:00	1030.8
10/31/2022 23:00	11/1/2022 0:00	994.2
11/1/2022 0:00	11/1/2022 1:00	932.3

Start Time	End Time	ANL_MW
11/1/2022 1:00	11/1/2022 2:00	889.2
11/1/2022 2:00	11/1/2022 3:00	857.1
11/1/2022 3:00	11/1/2022 4:00	850.5
11/1/2022 4:00	11/1/2022 5:00	842.7
11/1/2022 5:00	11/1/2022 6:00	847.3
11/1/2022 6:00	11/1/2022 7:00	923.4
11/1/2022 7:00	11/1/2022 8:00	1041.7
11/1/2022 8:00	11/1/2022 9:00	1083.7
11/1/2022 9:00	11/1/2022 10:00	1105.6
11/1/2022 10:00	11/1/2022 11:00	1115.8
11/1/2022 11:00	11/1/2022 12:00	1129.1
11/1/2022 12:00	11/1/2022 13:00	1126.7
11/1/2022 13:00	11/1/2022 14:00	1125.1
11/1/2022 14:00	11/1/2022 15:00	1126.0
11/1/2022 15:00	11/1/2022 16:00	1135.6
11/1/2022 16:00	11/1/2022 17:00	1183.6
11/1/2022 17:00	11/1/2022 18:00	1226.0
11/1/2022 18:00	11/1/2022 19:00	1217.3
11/1/2022 19:00	11/1/2022 20:00	1193.7
11/1/2022 20:00	11/1/2022 21:00	1149.9
11/1/2022 21:00	11/1/2022 22:00	1083.0
11/1/2022 22:00	11/1/2022 23:00	996.4
11/1/2022 23:00	11/2/2022 0:00	969.3
11/2/2022 0:00	11/2/2022 1:00	901.4
11/2/2022 1:00	11/2/2022 2:00	867.4
11/2/2022 2:00	11/2/2022 3:00	849.0
11/2/2022 3:00	11/2/2022 4:00	809.1
11/2/2022 4:00	11/2/2022 5:00	801.3
11/2/2022 5:00	11/2/2022 6:00	841.5
11/2/2022 6:00	11/2/2022 7:00	867.1
11/2/2022 7:00	11/2/2022 8:00	887.5
11/2/2022 8:00	11/2/2022 9:00	880.5
11/2/2022 9:00	11/2/2022 10:00	896.1
11/2/2022 10:00	11/2/2022 11:00	864.5
11/2/2022 11:00	11/2/2022 12:00	834.2
11/2/2022 12:00	11/2/2022 13:00	826.6
11/2/2022 13:00	11/2/2022 14:00	828.5
11/2/2022 14:00	11/2/2022 15:00	804.4
11/2/2022 15:00	11/2/2022 16:00	805.6
11/2/2022 16:00	11/2/2022 17:00	862.1
11/2/2022 17:00	11/2/2022 18:00	929.7
11/2/2022 18:00	11/2/2022 19:00	995.5
11/2/2022 19:00	11/2/2022 20:00	972.4
11/2/2022 20:00	11/2/2022 21:00	932.7
11/2/2022 21:00	11/2/2022 22:00	854.4
11/2/2022 22:00	11/2/2022 23:00	806.5
11/2/2022 23:00	11/3/2022 0:00	796.8
11/3/2022 0:00	11/3/2022 1:00	792.3
11/3/2022 1:00	11/3/2022 2:00	785.8
11/3/2022 2:00	11/3/2022 3:00	778.6
11/3/2022 3:00	11/3/2022 4:00	779.2
11/3/2022 4:00	11/3/2022 5:00	790.5
11/3/2022 5:00	11/3/2022 6:00	846.1
11/3/2022 6:00	11/3/2022 7:00	988.8
11/3/2022 7:00	11/3/2022 8:00	1059.4
11/3/2022 8:00	11/3/2022 9:00	1062.8
11/3/2022 9:00	11/3/2022 10:00	1082.3
11/3/2022 10:00	11/3/2022 11:00	1056.0
11/3/2022 11:00	11/3/2022 12:00	1038.0
11/3/2022 12:00	11/3/2022 13:00	1041.5
11/3/2022 13:00	11/3/2022 14:00	1011.7
11/3/2022 14:00	11/3/2022 15:00	987.5
11/3/2022 15:00	11/3/2022 16:00	992.9
11/3/2022 16:00	11/3/2022 17:00	1024.1
11/3/2022 17:00	11/3/2022 18:00	1031.3
11/3/2022 18:00	11/3/2022 19:00	982.2
11/3/2022 19:00	11/3/2022 20:00	903.6
11/3/2022 20:00	11/3/2022 21:00	858.5
11/3/2022 21:00	11/3/2022 22:00	804.0
11/3/2022 22:00	11/3/2022 23:00	726.9

Start Time	End Time	ANL_MW
11/3/2022 23:00	11/4/2022 0:00	707.6
11/4/2022 0:00	11/4/2022 1:00	693.3
11/4/2022 1:00	11/4/2022 2:00	658.4
11/4/2022 2:00	11/4/2022 3:00	695.6
11/4/2022 3:00	11/4/2022 4:00	696.7
11/4/2022 4:00	11/4/2022 5:00	683.4
11/4/2022 5:00	11/4/2022 6:00	716.9
11/4/2022 6:00	11/4/2022 7:00	821.1
11/4/2022 7:00	11/4/2022 8:00	937.7
11/4/2022 8:00	11/4/2022 9:00	992.2
11/4/2022 9:00	11/4/2022 10:00	1007.1
11/4/2022 10:00	11/4/2022 11:00	983.3
11/4/2022 11:00	11/4/2022 12:00	999.3
11/4/2022 12:00	11/4/2022 13:00	990.4
11/4/2022 13:00	11/4/2022 14:00	947.7
11/4/2022 14:00	11/4/2022 15:00	915.5
11/4/2022 15:00	11/4/2022 16:00	918.2
11/4/2022 16:00	11/4/2022 17:00	918.3
11/4/2022 17:00	11/4/2022 18:00	902.8
11/4/2022 18:00	11/4/2022 19:00	911.3
11/4/2022 19:00	11/4/2022 20:00	850.0
11/4/2022 20:00	11/4/2022 21:00	809.0
11/4/2022 21:00	11/4/2022 22:00	747.4
11/4/2022 22:00	11/4/2022 23:00	690.9
11/4/2022 23:00	11/5/2022 0:00	710.8
11/5/2022 0:00	11/5/2022 1:00	662.1
11/5/2022 1:00	11/5/2022 2:00	622.3
11/5/2022 2:00	11/5/2022 3:00	622.5
11/5/2022 3:00	11/5/2022 4:00	622.6
11/5/2022 4:00	11/5/2022 5:00	575.2
11/5/2022 5:00	11/5/2022 6:00	568.7
11/5/2022 6:00	11/5/2022 7:00	591.4
11/5/2022 7:00	11/5/2022 8:00	676.8
11/5/2022 8:00	11/5/2022 9:00	727.3
11/5/2022 9:00	11/5/2022 10:00	763.9
11/5/2022 10:00	11/5/2022 11:00	778.1
11/5/2022 11:00	11/5/2022 12:00	774.2
11/5/2022 12:00	11/5/2022 13:00	761.3
11/5/2022 13:00	11/5/2022 14:00	725.2
11/5/2022 14:00	11/5/2022 15:00	712.0
11/5/2022 15:00	11/5/2022 16:00	714.5
11/5/2022 16:00	11/5/2022 17:00	765.5
11/5/2022 17:00	11/5/2022 18:00	798.7
11/5/2022 18:00	11/5/2022 19:00	819.7
11/5/2022 19:00	11/5/2022 20:00	779.5
11/5/2022 20:00	11/5/2022 21:00	741.1
11/5/2022 21:00	11/5/2022 22:00	704.9
11/5/2022 22:00	11/5/2022 23:00	681.9
11/5/2022 23:00	11/6/2022 0:00	609.5
11/6/2022 0:00	11/6/2022 1:00	562.8
11/6/2022 1:00	11/6/2022 1:00	556.8
11/6/2022 1:00	11/6/2022 2:00	539.0
11/6/2022 2:00	11/6/2022 3:00	540.9
11/6/2022 3:00	11/6/2022 4:00	550.3
11/6/2022 4:00	11/6/2022 5:00	565.6
11/6/2022 5:00	11/6/2022 6:00	602.8
11/6/2022 6:00	11/6/2022 7:00	622.6
11/6/2022 7:00	11/6/2022 8:00	643.4
11/6/2022 8:00	11/6/2022 9:00	692.8
11/6/2022 9:00	11/6/2022 10:00	746.7
11/6/2022 10:00	11/6/2022 11:00	763.5
11/6/2022 11:00	11/6/2022 12:00	738.8
11/6/2022 12:00	11/6/2022 13:00	719.2
11/6/2022 13:00	11/6/2022 14:00	703.6
11/6/2022 14:00	11/6/2022 15:00	704.9
11/6/2022 15:00	11/6/2022 16:00	738.5
11/6/2022 16:00	11/6/2022 17:00	830.2
11/6/2022 17:00	11/6/2022 18:00	888.8
11/6/2022 18:00	11/6/2022 19:00	810.5
11/6/2022 19:00	11/6/2022 20:00	756.3

Start Time	End Time	ANL_MW
11/6/2022 20:00	11/6/2022 21:00	747.3
11/6/2022 21:00	11/6/2022 22:00	697.7
11/6/2022 22:00	11/6/2022 23:00	641.0
11/6/2022 23:00	11/7/2022 0:00	558.9
11/7/2022 0:00	11/7/2022 1:00	509.4
11/7/2022 1:00	11/7/2022 2:00	494.3
11/7/2022 2:00	11/7/2022 3:00	504.1
11/7/2022 3:00	11/7/2022 4:00	506.0
11/7/2022 4:00	11/7/2022 5:00	518.1
11/7/2022 5:00	11/7/2022 6:00	538.4
11/7/2022 6:00	11/7/2022 7:00	627.4
11/7/2022 7:00	11/7/2022 8:00	700.4
11/7/2022 8:00	11/7/2022 9:00	725.2
11/7/2022 9:00	11/7/2022 10:00	732.3
11/7/2022 10:00	11/7/2022 11:00	752.0
11/7/2022 11:00	11/7/2022 12:00	754.3
11/7/2022 12:00	11/7/2022 13:00	763.1
11/7/2022 13:00	11/7/2022 14:00	747.8
11/7/2022 14:00	11/7/2022 15:00	754.6
11/7/2022 15:00	11/7/2022 16:00	757.3
11/7/2022 16:00	11/7/2022 17:00	816.5
11/7/2022 17:00	11/7/2022 18:00	859.6
11/7/2022 18:00	11/7/2022 19:00	822.2
11/7/2022 19:00	11/7/2022 20:00	769.7
11/7/2022 20:00	11/7/2022 21:00	732.8
11/7/2022 21:00	11/7/2022 22:00	716.7
11/7/2022 22:00	11/7/2022 23:00	664.5
11/7/2022 23:00	11/8/2022 0:00	632.2
11/8/2022 0:00	11/8/2022 1:00	618.5
11/8/2022 1:00	11/8/2022 2:00	591.7
11/8/2022 2:00	11/8/2022 3:00	578.2
11/8/2022 3:00	11/8/2022 4:00	559.0
11/8/2022 4:00	11/8/2022 5:00	582.3
11/8/2022 5:00	11/8/2022 6:00	641.8
11/8/2022 6:00	11/8/2022 7:00	760.6
11/8/2022 7:00	11/8/2022 8:00	854.5
11/8/2022 8:00	11/8/2022 9:00	833.4
11/8/2022 9:00	11/8/2022 10:00	828.6
11/8/2022 10:00	11/8/2022 11:00	822.9
11/8/2022 11:00	11/8/2022 12:00	834.4
11/8/2022 12:00	11/8/2022 13:00	827.9
11/8/2022 13:00	11/8/2022 14:00	805.0
11/8/2022 14:00	11/8/2022 15:00	824.0
11/8/2022 15:00	11/8/2022 16:00	874.7
11/8/2022 16:00	11/8/2022 17:00	971.5
11/8/2022 17:00	11/8/2022 18:00	1063.3
11/8/2022 18:00	11/8/2022 19:00	1040.5
11/8/2022 19:00	11/8/2022 20:00	1014.2
11/8/2022 20:00	11/8/2022 21:00	962.6
11/8/2022 21:00	11/8/2022 22:00	893.4
11/8/2022 22:00	11/8/2022 23:00	824.7
11/8/2022 23:00	11/9/2022 0:00	770.5
11/9/2022 0:00	11/9/2022 1:00	728.1
11/9/2022 1:00	11/9/2022 2:00	697.6
11/9/2022 2:00	11/9/2022 3:00	681.3
11/9/2022 3:00	11/9/2022 4:00	698.6
11/9/2022 4:00	11/9/2022 5:00	745.2
11/9/2022 5:00	11/9/2022 6:00	780.2
11/9/2022 6:00	11/9/2022 7:00	916.9
11/9/2022 7:00	11/9/2022 8:00	1089.3
11/9/2022 8:00	11/9/2022 9:00	1122.4
11/9/2022 9:00	11/9/2022 10:00	1096.6
11/9/2022 10:00	11/9/2022 11:00	1103.3
11/9/2022 11:00	11/9/2022 12:00	1112.7
11/9/2022 12:00	11/9/2022 13:00	1111.4
11/9/2022 13:00	11/9/2022 14:00	1112.4
11/9/2022 14:00	11/9/2022 15:00	1100.9
11/9/2022 15:00	11/9/2022 16:00	1133.2
11/9/2022 16:00	11/9/2022 17:00	1229.5
11/9/2022 17:00	11/9/2022 18:00	1316.5

Start Time	End Time	ANL_MW
11/9/2022 18:00	11/9/2022 19:00	1306.8
11/9/2022 19:00	11/9/2022 20:00	1300.3
11/9/2022 20:00	11/9/2022 21:00	1256.1
11/9/2022 21:00	11/9/2022 22:00	1171.6
11/9/2022 22:00	11/9/2022 23:00	1078.1
11/9/2022 23:00	11/10/2022 0:00	1036.0
11/10/2022 0:00	11/10/2022 1:00	953.2
11/10/2022 1:00	11/10/2022 2:00	881.8
11/10/2022 2:00	11/10/2022 3:00	884.9
11/10/2022 3:00	11/10/2022 4:00	893.1
11/10/2022 4:00	11/10/2022 5:00	895.1
11/10/2022 5:00	11/10/2022 6:00	934.1
11/10/2022 6:00	11/10/2022 7:00	991.7
11/10/2022 7:00	11/10/2022 8:00	1024.2
11/10/2022 8:00	11/10/2022 9:00	1047.7
11/10/2022 9:00	11/10/2022 10:00	1043.6
11/10/2022 10:00	11/10/2022 11:00	1022.1
11/10/2022 11:00	11/10/2022 12:00	1020.0
11/10/2022 12:00	11/10/2022 13:00	997.1
11/10/2022 13:00	11/10/2022 14:00	962.1
11/10/2022 14:00	11/10/2022 15:00	954.9
11/10/2022 15:00	11/10/2022 16:00	965.5
11/10/2022 16:00	11/10/2022 17:00	1038.8
11/10/2022 17:00	11/10/2022 18:00	1115.7
11/10/2022 18:00	11/10/2022 19:00	1100.9
11/10/2022 19:00	11/10/2022 20:00	1038.7
11/10/2022 20:00	11/10/2022 21:00	977.2
11/10/2022 21:00	11/10/2022 22:00	908.6
11/10/2022 22:00	11/10/2022 23:00	868.4
11/10/2022 23:00	11/11/2022 0:00	808.8
11/11/2022 0:00	11/11/2022 1:00	768.9
11/11/2022 1:00	11/11/2022 2:00	744.7
11/11/2022 2:00	11/11/2022 3:00	734.1
11/11/2022 3:00	11/11/2022 4:00	748.9
11/11/2022 4:00	11/11/2022 5:00	787.7
11/11/2022 5:00	11/11/2022 6:00	882.0
11/11/2022 6:00	11/11/2022 7:00	942.1
11/11/2022 7:00	11/11/2022 8:00	1027.7
11/11/2022 8:00	11/11/2022 9:00	1104.3
11/11/2022 9:00	11/11/2022 10:00	1153.9
11/11/2022 10:00	11/11/2022 11:00	1155.5
11/11/2022 11:00	11/11/2022 12:00	1135.5
11/11/2022 12:00	11/11/2022 13:00	1126.3
11/11/2022 13:00	11/11/2022 14:00	1107.5
11/11/2022 14:00	11/11/2022 15:00	1082.0
11/11/2022 15:00	11/11/2022 16:00	1084.6
11/11/2022 16:00	11/11/2022 17:00	1133.9
11/11/2022 17:00	11/11/2022 18:00	1177.8
11/11/2022 18:00	11/11/2022 19:00	1090.4
11/11/2022 19:00	11/11/2022 20:00	995.4
11/11/2022 20:00	11/11/2022 21:00	928.2
11/11/2022 21:00	11/11/2022 22:00	882.9
11/11/2022 22:00	11/11/2022 23:00	865.9
11/11/2022 23:00	11/12/2022 0:00	886.7
11/12/2022 0:00	11/12/2022 1:00	861.2
11/12/2022 1:00	11/12/2022 2:00	822.8
11/12/2022 2:00	11/12/2022 3:00	789.6
11/12/2022 3:00	11/12/2022 4:00	781.2
11/12/2022 4:00	11/12/2022 5:00	777.3
11/12/2022 5:00	11/12/2022 6:00	705.5
11/12/2022 6:00	11/12/2022 7:00	703.1
11/12/2022 7:00	11/12/2022 8:00	709.3
11/12/2022 8:00	11/12/2022 9:00	725.8
11/12/2022 9:00	11/12/2022 10:00	730.6
11/12/2022 10:00	11/12/2022 11:00	753.1
11/12/2022 11:00	11/12/2022 12:00	811.4
11/12/2022 12:00	11/12/2022 13:00	776.7
11/12/2022 13:00	11/12/2022 14:00	743.8
11/12/2022 14:00	11/12/2022 15:00	717.9
11/12/2022 15:00	11/12/2022 16:00	729.9

Start Time	End Time	ANL_MW
11/12/2022 16:00	11/12/2022 17:00	777.5
11/12/2022 17:00	11/12/2022 18:00	819.0
11/12/2022 18:00	11/12/2022 19:00	763.4
11/12/2022 19:00	11/12/2022 20:00	725.8
11/12/2022 20:00	11/12/2022 21:00	684.4
11/12/2022 21:00	11/12/2022 22:00	698.7
11/12/2022 22:00	11/12/2022 23:00	695.8
11/12/2022 23:00	11/13/2022 0:00	706.8
11/13/2022 0:00	11/13/2022 1:00	699.8
11/13/2022 1:00	11/13/2022 2:00	711.3
11/13/2022 2:00	11/13/2022 3:00	713.1
11/13/2022 3:00	11/13/2022 4:00	741.0
11/13/2022 4:00	11/13/2022 5:00	801.9
11/13/2022 5:00	11/13/2022 6:00	866.1
11/13/2022 6:00	11/13/2022 7:00	928.1
11/13/2022 7:00	11/13/2022 8:00	1025.6
11/13/2022 8:00	11/13/2022 9:00	1121.3
11/13/2022 9:00	11/13/2022 10:00	1184.4
11/13/2022 10:00	11/13/2022 11:00	1202.7
11/13/2022 11:00	11/13/2022 12:00	1214.1
11/13/2022 12:00	11/13/2022 13:00	1223.0
11/13/2022 13:00	11/13/2022 14:00	1207.4
11/13/2022 14:00	11/13/2022 15:00	1203.3
11/13/2022 15:00	11/13/2022 16:00	1164.2
11/13/2022 16:00	11/13/2022 17:00	1223.4
11/13/2022 17:00	11/13/2022 18:00	1243.0
11/13/2022 18:00	11/13/2022 19:00	1176.1
11/13/2022 19:00	11/13/2022 20:00	1131.2
11/13/2022 20:00	11/13/2022 21:00	1125.0
11/13/2022 21:00	11/13/2022 22:00	1061.7
11/13/2022 22:00	11/13/2022 23:00	927.7
11/13/2022 23:00	11/14/2022 0:00	837.3
11/14/2022 0:00	11/14/2022 1:00	766.3
11/14/2022 1:00	11/14/2022 2:00	707.2
11/14/2022 2:00	11/14/2022 3:00	677.0
11/14/2022 3:00	11/14/2022 4:00	670.7
11/14/2022 4:00	11/14/2022 5:00	690.4
11/14/2022 5:00	11/14/2022 6:00	734.9
11/14/2022 6:00	11/14/2022 7:00	827.8
11/14/2022 7:00	11/14/2022 8:00	944.0
11/14/2022 8:00	11/14/2022 9:00	1004.0
11/14/2022 9:00	11/14/2022 10:00	978.4
11/14/2022 10:00	11/14/2022 11:00	935.6
11/14/2022 11:00	11/14/2022 12:00	936.7
11/14/2022 12:00	11/14/2022 13:00	945.9
11/14/2022 13:00	11/14/2022 14:00	935.8
11/14/2022 14:00	11/14/2022 15:00	941.0
11/14/2022 15:00	11/14/2022 16:00	978.5
11/14/2022 16:00	11/14/2022 17:00	1075.4
11/14/2022 17:00	11/14/2022 18:00	1195.6
11/14/2022 18:00	11/14/2022 19:00	1180.5
11/14/2022 19:00	11/14/2022 20:00	1149.2
11/14/2022 20:00	11/14/2022 21:00	1121.2
11/14/2022 21:00	11/14/2022 22:00	1056.0
11/14/2022 22:00	11/14/2022 23:00	991.2
11/14/2022 23:00	11/15/2022 0:00	975.9
11/15/2022 0:00	11/15/2022 1:00	1004.1
11/15/2022 1:00	11/15/2022 2:00	997.9
11/15/2022 2:00	11/15/2022 3:00	978.6
11/15/2022 3:00	11/15/2022 4:00	997.4
11/15/2022 4:00	11/15/2022 5:00	1021.3
11/15/2022 5:00	11/15/2022 6:00	1056.1
11/15/2022 6:00	11/15/2022 7:00	1138.7
11/15/2022 7:00	11/15/2022 8:00	1279.5
11/15/2022 8:00	11/15/2022 9:00	1339.6
11/15/2022 9:00	11/15/2022 10:00	1289.3
11/15/2022 10:00	11/15/2022 11:00	1227.8
11/15/2022 11:00	11/15/2022 12:00	1214.9
11/15/2022 12:00	11/15/2022 13:00	1222.9
11/15/2022 13:00	11/15/2022 14:00	1203.6

Start Time	End Time	ANL_MW
11/15/2022 14:00	11/15/2022 15:00	1200.6
11/15/2022 15:00	11/15/2022 16:00	1255.0
11/15/2022 16:00	11/15/2022 17:00	1347.7
11/15/2022 17:00	11/15/2022 18:00	1422.3
11/15/2022 18:00	11/15/2022 19:00	1391.2
11/15/2022 19:00	11/15/2022 20:00	1379.3
11/15/2022 20:00	11/15/2022 21:00	1365.2
11/15/2022 21:00	11/15/2022 22:00	1307.4
11/15/2022 22:00	11/15/2022 23:00	1244.9
11/15/2022 23:00	11/16/2022 0:00	1248.8
11/16/2022 0:00	11/16/2022 1:00	1220.2
11/16/2022 1:00	11/16/2022 2:00	1210.7
11/16/2022 2:00	11/16/2022 3:00	1209.1
11/16/2022 3:00	11/16/2022 4:00	1210.8
11/16/2022 4:00	11/16/2022 5:00	1223.6
11/16/2022 5:00	11/16/2022 6:00	1281.0
11/16/2022 6:00	11/16/2022 7:00	1340.6
11/16/2022 7:00	11/16/2022 8:00	1420.7
11/16/2022 8:00	11/16/2022 9:00	1421.2
11/16/2022 9:00	11/16/2022 10:00	1386.9
11/16/2022 10:00	11/16/2022 11:00	1317.9
11/16/2022 11:00	11/16/2022 12:00	1261.2
11/16/2022 12:00	11/16/2022 13:00	1261.6
11/16/2022 13:00	11/16/2022 14:00	1303.8
11/16/2022 14:00	11/16/2022 15:00	1298.9
11/16/2022 15:00	11/16/2022 16:00	1238.0
11/16/2022 16:00	11/16/2022 17:00	1207.9
11/16/2022 17:00	11/16/2022 18:00	1177.6
11/16/2022 18:00	11/16/2022 19:00	1077.7
11/16/2022 19:00	11/16/2022 20:00	1074.2
11/16/2022 20:00	11/16/2022 21:00	1039.7
11/16/2022 21:00	11/16/2022 22:00	947.9
11/16/2022 22:00	11/16/2022 23:00	834.7
11/16/2022 23:00	11/17/2022 0:00	757.8
11/17/2022 0:00	11/17/2022 1:00	702.8
11/17/2022 1:00	11/17/2022 2:00	698.0
11/17/2022 2:00	11/17/2022 3:00	709.0
11/17/2022 3:00	11/17/2022 4:00	714.1
11/17/2022 4:00	11/17/2022 5:00	724.5
11/17/2022 5:00	11/17/2022 6:00	769.4
11/17/2022 6:00	11/17/2022 7:00	886.7
11/17/2022 7:00	11/17/2022 8:00	1005.7
11/17/2022 8:00	11/17/2022 9:00	1061.4
11/17/2022 9:00	11/17/2022 10:00	1068.0
11/17/2022 10:00	11/17/2022 11:00	1057.1
11/17/2022 11:00	11/17/2022 12:00	1069.4
11/17/2022 12:00	11/17/2022 13:00	1073.0
11/17/2022 13:00	11/17/2022 14:00	1096.4
11/17/2022 14:00	11/17/2022 15:00	1108.1
11/17/2022 15:00	11/17/2022 16:00	1053.5
11/17/2022 16:00	11/17/2022 17:00	1162.4
11/17/2022 17:00	11/17/2022 18:00	1229.3
11/17/2022 18:00	11/17/2022 19:00	1201.6
11/17/2022 19:00	11/17/2022 20:00	1156.4
11/17/2022 20:00	11/17/2022 21:00	1106.9
11/17/2022 21:00	11/17/2022 22:00	1056.7
11/17/2022 22:00	11/17/2022 23:00	1053.1
11/17/2022 23:00	11/18/2022 0:00	1009.5
11/18/2022 0:00	11/18/2022 1:00	994.5
11/18/2022 1:00	11/18/2022 2:00	1007.9
11/18/2022 2:00	11/18/2022 3:00	978.3
11/18/2022 3:00	11/18/2022 4:00	969.1
11/18/2022 4:00	11/18/2022 5:00	977.8
11/18/2022 5:00	11/18/2022 6:00	1039.1
11/18/2022 6:00	11/18/2022 7:00	1171.2
11/18/2022 7:00	11/18/2022 8:00	1228.2
11/18/2022 8:00	11/18/2022 9:00	1244.0
11/18/2022 9:00	11/18/2022 10:00	1211.4
11/18/2022 10:00	11/18/2022 11:00	1211.2
11/18/2022 11:00	11/18/2022 12:00	1183.7

Start Time	End Time	ANL_MW
11/18/2022 12:00	11/18/2022 13:00	1165.2
11/18/2022 13:00	11/18/2022 14:00	1143.5
11/18/2022 14:00	11/18/2022 15:00	1135.6
11/18/2022 15:00	11/18/2022 16:00	1155.9
11/18/2022 16:00	11/18/2022 17:00	1281.7
11/18/2022 17:00	11/18/2022 18:00	1376.0
11/18/2022 18:00	11/18/2022 19:00	1341.5
11/18/2022 19:00	11/18/2022 20:00	1305.0
11/18/2022 20:00	11/18/2022 21:00	1277.6
11/18/2022 21:00	11/18/2022 22:00	1266.6
11/18/2022 22:00	11/18/2022 23:00	1258.9
11/18/2022 23:00	11/19/2022 0:00	1283.7
11/19/2022 0:00	11/19/2022 1:00	1283.3
11/19/2022 1:00	11/19/2022 2:00	1273.6
11/19/2022 2:00	11/19/2022 3:00	1252.6
11/19/2022 3:00	11/19/2022 4:00	1250.9
11/19/2022 4:00	11/19/2022 5:00	1268.6
11/19/2022 5:00	11/19/2022 6:00	1299.1
11/19/2022 6:00	11/19/2022 7:00	1317.2
11/19/2022 7:00	11/19/2022 8:00	1339.7
11/19/2022 8:00	11/19/2022 9:00	1369.0
11/19/2022 9:00	11/19/2022 10:00	1366.5
11/19/2022 10:00	11/19/2022 11:00	1328.1
11/19/2022 11:00	11/19/2022 12:00	1279.4
11/19/2022 12:00	11/19/2022 13:00	1244.4
11/19/2022 13:00	11/19/2022 14:00	1237.5
11/19/2022 14:00	11/19/2022 15:00	1249.5
11/19/2022 15:00	11/19/2022 16:00	1267.2
11/19/2022 16:00	11/19/2022 17:00	1362.6
11/19/2022 17:00	11/19/2022 18:00	1416.1
11/19/2022 18:00	11/19/2022 19:00	1383.0
11/19/2022 19:00	11/19/2022 20:00	1356.5
11/19/2022 20:00	11/19/2022 21:00	1314.4
11/19/2022 21:00	11/19/2022 22:00	1269.2
11/19/2022 22:00	11/19/2022 23:00	1210.9
11/19/2022 23:00	11/20/2022 0:00	1166.4
11/20/2022 0:00	11/20/2022 1:00	1099.3
11/20/2022 1:00	11/20/2022 2:00	1046.4
11/20/2022 2:00	11/20/2022 3:00	1008.6
11/20/2022 3:00	11/20/2022 4:00	1000.1
11/20/2022 4:00	11/20/2022 5:00	1013.3
11/20/2022 5:00	11/20/2022 6:00	1060.5
11/20/2022 6:00	11/20/2022 7:00	1050.5
11/20/2022 7:00	11/20/2022 8:00	1051.5
11/20/2022 8:00	11/20/2022 9:00	1061.6
11/20/2022 9:00	11/20/2022 10:00	1060.4
11/20/2022 10:00	11/20/2022 11:00	996.5
11/20/2022 11:00	11/20/2022 12:00	956.6
11/20/2022 12:00	11/20/2022 13:00	953.8
11/20/2022 13:00	11/20/2022 14:00	974.4
11/20/2022 14:00	11/20/2022 15:00	995.6
11/20/2022 15:00	11/20/2022 16:00	1102.5
11/20/2022 16:00	11/20/2022 17:00	1226.9
11/20/2022 17:00	11/20/2022 18:00	1211.9
11/20/2022 18:00	11/20/2022 19:00	1147.4
11/20/2022 19:00	11/20/2022 20:00	1106.8
11/20/2022 20:00	11/20/2022 21:00	1051.5
11/20/2022 21:00	11/20/2022 22:00	1027.7
11/20/2022 22:00	11/20/2022 23:00	972.2
11/20/2022 23:00	11/21/2022 0:00	913.5
11/21/2022 0:00	11/21/2022 1:00	870.9
11/21/2022 1:00	11/21/2022 2:00	862.0
11/21/2022 2:00	11/21/2022 3:00	923.9
11/21/2022 3:00	11/21/2022 4:00	945.4
11/21/2022 4:00	11/21/2022 5:00	968.0
11/21/2022 5:00	11/21/2022 6:00	1003.3
11/21/2022 6:00	11/21/2022 7:00	1138.8
11/21/2022 7:00	11/21/2022 8:00	1249.8
11/21/2022 8:00	11/21/2022 9:00	1295.2
11/21/2022 9:00	11/21/2022 10:00	1263.6

Start Time	End Time	ANL_MW
11/21/2022 10:00	11/21/2022 11:00	1254.6
11/21/2022 11:00	11/21/2022 12:00	1255.4
11/21/2022 12:00	11/21/2022 13:00	1233.6
11/21/2022 13:00	11/21/2022 14:00	1246.6
11/21/2022 14:00	11/21/2022 15:00	1248.4
11/21/2022 15:00	11/21/2022 16:00	1316.0
11/21/2022 16:00	11/21/2022 17:00	1448.1
11/21/2022 17:00	11/21/2022 18:00	1484.1
11/21/2022 18:00	11/21/2022 19:00	1421.3
11/21/2022 19:00	11/21/2022 20:00	1366.7
11/21/2022 20:00	11/21/2022 21:00	1350.7
11/21/2022 21:00	11/21/2022 22:00	1286.8
11/21/2022 22:00	11/21/2022 23:00	1186.9
11/21/2022 23:00	11/22/2022 0:00	1167.4
11/22/2022 0:00	11/22/2022 1:00	1108.9
11/22/2022 1:00	11/22/2022 2:00	1009.2
11/22/2022 2:00	11/22/2022 3:00	950.7
11/22/2022 3:00	11/22/2022 4:00	966.2
11/22/2022 4:00	11/22/2022 5:00	985.1
11/22/2022 5:00	11/22/2022 6:00	1014.9
11/22/2022 6:00	11/22/2022 7:00	1136.7
11/22/2022 7:00	11/22/2022 8:00	1224.6
11/22/2022 8:00	11/22/2022 9:00	1246.1
11/22/2022 9:00	11/22/2022 10:00	1158.5
11/22/2022 10:00	11/22/2022 11:00	1115.5
11/22/2022 11:00	11/22/2022 12:00	1088.6
11/22/2022 12:00	11/22/2022 13:00	1092.1
11/22/2022 13:00	11/22/2022 14:00	1106.7
11/22/2022 14:00	11/22/2022 15:00	1163.4
11/22/2022 15:00	11/22/2022 16:00	1307.4
11/22/2022 16:00	11/22/2022 17:00	1429.6
11/22/2022 17:00	11/22/2022 18:00	1561.6
11/22/2022 18:00	11/22/2022 19:00	1538.9
11/22/2022 19:00	11/22/2022 20:00	1507.6
11/22/2022 20:00	11/22/2022 21:00	1478.7
11/22/2022 21:00	11/22/2022 22:00	1415.8
11/22/2022 22:00	11/22/2022 23:00	1330.7
11/22/2022 23:00	11/23/2022 0:00	1308.0
11/23/2022 0:00	11/23/2022 1:00	1224.6
11/23/2022 1:00	11/23/2022 2:00	1186.1
11/23/2022 2:00	11/23/2022 3:00	1166.6
11/23/2022 3:00	11/23/2022 4:00	1195.7
11/23/2022 4:00	11/23/2022 5:00	1192.3
11/23/2022 5:00	11/23/2022 6:00	1220.5
11/23/2022 6:00	11/23/2022 7:00	1284.7
11/23/2022 7:00	11/23/2022 8:00	1372.8
11/23/2022 8:00	11/23/2022 9:00	1411.6
11/23/2022 9:00	11/23/2022 10:00	1349.7
11/23/2022 10:00	11/23/2022 11:00	1265.1
11/23/2022 11:00	11/23/2022 12:00	1217.9
11/23/2022 12:00	11/23/2022 13:00	1198.7
11/23/2022 13:00	11/23/2022 14:00	1162.1
11/23/2022 14:00	11/23/2022 15:00	1115.2
11/23/2022 15:00	11/23/2022 16:00	1156.9
11/23/2022 16:00	11/23/2022 17:00	1281.4
11/23/2022 17:00	11/23/2022 18:00	1319.5
11/23/2022 18:00	11/23/2022 19:00	1236.3
11/23/2022 19:00	11/23/2022 20:00	1182.2
11/23/2022 20:00	11/23/2022 21:00	1144.3
11/23/2022 21:00	11/23/2022 22:00	1131.6
11/23/2022 22:00	11/23/2022 23:00	1112.3
11/23/2022 23:00	11/24/2022 0:00	1111.1
11/24/2022 0:00	11/24/2022 1:00	1113.7
11/24/2022 1:00	11/24/2022 2:00	1129.9
11/24/2022 2:00	11/24/2022 3:00	1112.9
11/24/2022 3:00	11/24/2022 4:00	1124.9
11/24/2022 4:00	11/24/2022 5:00	1149.7
11/24/2022 5:00	11/24/2022 6:00	1234.8
11/24/2022 6:00	11/24/2022 7:00	1361.1
11/24/2022 7:00	11/24/2022 8:00	1447.6

Start Time	End Time	ANL_MW
11/24/2022 8:00	11/24/2022 9:00	1457.7
11/24/2022 9:00	11/24/2022 10:00	1395.7
11/24/2022 10:00	11/24/2022 11:00	1296.9
11/24/2022 11:00	11/24/2022 12:00	1263.3
11/24/2022 12:00	11/24/2022 13:00	1202.5
11/24/2022 13:00	11/24/2022 14:00	1167.8
11/24/2022 14:00	11/24/2022 15:00	1175.8
11/24/2022 15:00	11/24/2022 16:00	1198.6
11/24/2022 16:00	11/24/2022 17:00	1321.3
11/24/2022 17:00	11/24/2022 18:00	1419.5
11/24/2022 18:00	11/24/2022 19:00	1348.9
11/24/2022 19:00	11/24/2022 20:00	1335.0
11/24/2022 20:00	11/24/2022 21:00	1329.9
11/24/2022 21:00	11/24/2022 22:00	1311.1
11/24/2022 22:00	11/24/2022 23:00	1276.2
11/24/2022 23:00	11/25/2022 0:00	1301.6
11/25/2022 0:00	11/25/2022 1:00	1307.5
11/25/2022 1:00	11/25/2022 2:00	1294.1
11/25/2022 2:00	11/25/2022 3:00	1315.0
11/25/2022 3:00	11/25/2022 4:00	1342.2
11/25/2022 4:00	11/25/2022 5:00	1371.9
11/25/2022 5:00	11/25/2022 6:00	1444.2
11/25/2022 6:00	11/25/2022 7:00	1529.8
11/25/2022 7:00	11/25/2022 8:00	1555.4
11/25/2022 8:00	11/25/2022 9:00	1519.9
11/25/2022 9:00	11/25/2022 10:00	1458.3
11/25/2022 10:00	11/25/2022 11:00	1424.6
11/25/2022 11:00	11/25/2022 12:00	1405.5
11/25/2022 12:00	11/25/2022 13:00	1416.4
11/25/2022 13:00	11/25/2022 14:00	1409.2
11/25/2022 14:00	11/25/2022 15:00	1366.8
11/25/2022 15:00	11/25/2022 16:00	1302.1
11/25/2022 16:00	11/25/2022 17:00	1267.9
11/25/2022 17:00	11/25/2022 18:00	1264.4
11/25/2022 18:00	11/25/2022 19:00	1201.0
11/25/2022 19:00	11/25/2022 20:00	1139.7
11/25/2022 20:00	11/25/2022 21:00	1136.1
11/25/2022 21:00	11/25/2022 22:00	1029.2
11/25/2022 22:00	11/25/2022 23:00	1003.4
11/25/2022 23:00	11/26/2022 0:00	965.7
11/26/2022 0:00	11/26/2022 1:00	941.0
11/26/2022 1:00	11/26/2022 2:00	930.6
11/26/2022 2:00	11/26/2022 3:00	903.0
11/26/2022 3:00	11/26/2022 4:00	919.2
11/26/2022 4:00	11/26/2022 5:00	923.3
11/26/2022 5:00	11/26/2022 6:00	875.8
11/26/2022 6:00	11/26/2022 7:00	870.0
11/26/2022 7:00	11/26/2022 8:00	945.7
11/26/2022 8:00	11/26/2022 9:00	1015.8
11/26/2022 9:00	11/26/2022 10:00	1077.3
11/26/2022 10:00	11/26/2022 11:00	1121.1
11/26/2022 11:00	11/26/2022 12:00	1163.7
11/26/2022 12:00	11/26/2022 13:00	1082.9
11/26/2022 13:00	11/26/2022 14:00	1098.8
11/26/2022 14:00	11/26/2022 15:00	1128.7
11/26/2022 15:00	11/26/2022 16:00	1115.9
11/26/2022 16:00	11/26/2022 17:00	1193.0
11/26/2022 17:00	11/26/2022 18:00	1240.6
11/26/2022 18:00	11/26/2022 19:00	1163.3
11/26/2022 19:00	11/26/2022 20:00	1104.8
11/26/2022 20:00	11/26/2022 21:00	1063.6
11/26/2022 21:00	11/26/2022 22:00	1032.5
11/26/2022 22:00	11/26/2022 23:00	992.7
11/26/2022 23:00	11/27/2022 0:00	946.4
11/27/2022 0:00	11/27/2022 1:00	896.5
11/27/2022 1:00	11/27/2022 2:00	902.0
11/27/2022 2:00	11/27/2022 3:00	914.5
11/27/2022 3:00	11/27/2022 4:00	957.1
11/27/2022 4:00	11/27/2022 5:00	1029.2
11/27/2022 5:00	11/27/2022 6:00	1111.2

Start Time	End Time	ANL_MW
11/27/2022 6:00	11/27/2022 7:00	1211.0
11/27/2022 7:00	11/27/2022 8:00	1324.5
11/27/2022 8:00	11/27/2022 9:00	1332.4
11/27/2022 9:00	11/27/2022 10:00	1338.7
11/27/2022 10:00	11/27/2022 11:00	1306.9
11/27/2022 11:00	11/27/2022 12:00	1250.6
11/27/2022 12:00	11/27/2022 13:00	1183.2
11/27/2022 13:00	11/27/2022 14:00	1161.5
11/27/2022 14:00	11/27/2022 15:00	1176.5
11/27/2022 15:00	11/27/2022 16:00	1210.6
11/27/2022 16:00	11/27/2022 17:00	1296.0
11/27/2022 17:00	11/27/2022 18:00	1366.7
11/27/2022 18:00	11/27/2022 19:00	1316.9
11/27/2022 19:00	11/27/2022 20:00	1254.7
11/27/2022 20:00	11/27/2022 21:00	1185.4
11/27/2022 21:00	11/27/2022 22:00	1146.2
11/27/2022 22:00	11/27/2022 23:00	1089.2
11/27/2022 23:00	11/28/2022 0:00	1003.0
11/28/2022 0:00	11/28/2022 1:00	984.5
11/28/2022 1:00	11/28/2022 2:00	990.8
11/28/2022 2:00	11/28/2022 3:00	957.0
11/28/2022 3:00	11/28/2022 4:00	953.2
11/28/2022 4:00	11/28/2022 5:00	950.0
11/28/2022 5:00	11/28/2022 6:00	926.4
11/28/2022 6:00	11/28/2022 7:00	943.5
11/28/2022 7:00	11/28/2022 8:00	998.6
11/28/2022 8:00	11/28/2022 9:00	1056.1
11/28/2022 9:00	11/28/2022 10:00	1119.3
11/28/2022 10:00	11/28/2022 11:00	1139.7
11/28/2022 11:00	11/28/2022 12:00	1152.0
11/28/2022 12:00	11/28/2022 13:00	1143.5
11/28/2022 13:00	11/28/2022 14:00	1128.8
11/28/2022 14:00	11/28/2022 15:00	1027.9
11/28/2022 15:00	11/28/2022 16:00	1033.4
11/28/2022 16:00	11/28/2022 17:00	1106.0
11/28/2022 17:00	11/28/2022 18:00	1183.1
11/28/2022 18:00	11/28/2022 19:00	1096.0
11/28/2022 19:00	11/28/2022 20:00	1053.8
11/28/2022 20:00	11/28/2022 21:00	1009.0
11/28/2022 21:00	11/28/2022 22:00	983.9
11/28/2022 22:00	11/28/2022 23:00	926.3
11/28/2022 23:00	11/29/2022 0:00	877.7
11/29/2022 0:00	11/29/2022 1:00	850.9
11/29/2022 1:00	11/29/2022 2:00	833.8
11/29/2022 2:00	11/29/2022 3:00	813.8
11/29/2022 3:00	11/29/2022 4:00	802.1
11/29/2022 4:00	11/29/2022 5:00	841.9
11/29/2022 5:00	11/29/2022 6:00	914.6
11/29/2022 6:00	11/29/2022 7:00	1085.6
11/29/2022 7:00	11/29/2022 8:00	1215.8
11/29/2022 8:00	11/29/2022 9:00	1278.3
11/29/2022 9:00	11/29/2022 10:00	1283.3
11/29/2022 10:00	11/29/2022 11:00	1260.7
11/29/2022 11:00	11/29/2022 12:00	1244.2
11/29/2022 12:00	11/29/2022 13:00	1228.7
11/29/2022 13:00	11/29/2022 14:00	1196.9
11/29/2022 14:00	11/29/2022 15:00	1194.3
11/29/2022 15:00	11/29/2022 16:00	1249.2
11/29/2022 16:00	11/29/2022 17:00	1392.0
11/29/2022 17:00	11/29/2022 18:00	1510.2
11/29/2022 18:00	11/29/2022 19:00	1497.4
11/29/2022 19:00	11/29/2022 20:00	1488.9
11/29/2022 20:00	11/29/2022 21:00	1483.0
11/29/2022 21:00	11/29/2022 22:00	1446.5
11/29/2022 22:00	11/29/2022 23:00	1393.4
11/29/2022 23:00	11/30/2022 0:00	1385.6
11/30/2022 0:00	11/30/2022 1:00	1362.4
11/30/2022 1:00	11/30/2022 2:00	1339.3
11/30/2022 2:00	11/30/2022 3:00	1325.9
11/30/2022 3:00	11/30/2022 4:00	1325.3

Start Time	End Time	ANL_MW
11/30/2022 4:00	11/30/2022 5:00	1349.2
11/30/2022 5:00	11/30/2022 6:00	1417.2
11/30/2022 6:00	11/30/2022 7:00	1526.8
11/30/2022 7:00	11/30/2022 8:00	1607.3
11/30/2022 8:00	11/30/2022 9:00	1553.4
11/30/2022 9:00	11/30/2022 10:00	1472.2
11/30/2022 10:00	11/30/2022 11:00	1378.3
11/30/2022 11:00	11/30/2022 12:00	1293.9
11/30/2022 12:00	11/30/2022 13:00	1245.1
11/30/2022 13:00	11/30/2022 14:00	1181.1
11/30/2022 14:00	11/30/2022 15:00	1139.4
11/30/2022 15:00	11/30/2022 16:00	1147.6
11/30/2022 16:00	11/30/2022 17:00	1240.4
11/30/2022 17:00	11/30/2022 18:00	1256.7
11/30/2022 18:00	11/30/2022 19:00	1165.5
11/30/2022 19:00	11/30/2022 20:00	1089.0
11/30/2022 20:00	11/30/2022 21:00	1016.6
11/30/2022 21:00	11/30/2022 22:00	935.9
11/30/2022 22:00	11/30/2022 23:00	850.6
11/30/2022 23:00	12/1/2022 0:00	831.7
12/1/2022 0:00	12/1/2022 1:00	792.7
12/1/2022 1:00	12/1/2022 2:00	771.6
12/1/2022 2:00	12/1/2022 3:00	811.7
12/1/2022 3:00	12/1/2022 4:00	774.1
12/1/2022 4:00	12/1/2022 5:00	776.6
12/1/2022 5:00	12/1/2022 6:00	731.9
12/1/2022 6:00	12/1/2022 7:00	793.4
12/1/2022 7:00	12/1/2022 8:00	880.8
12/1/2022 8:00	12/1/2022 9:00	922.9
12/1/2022 9:00	12/1/2022 10:00	959.5
12/1/2022 10:00	12/1/2022 11:00	989.7
12/1/2022 11:00	12/1/2022 12:00	1008.2
12/1/2022 12:00	12/1/2022 13:00	1022.5
12/1/2022 13:00	12/1/2022 14:00	1010.4
12/1/2022 14:00	12/1/2022 15:00	1036.3
12/1/2022 15:00	12/1/2022 16:00	1089.2
12/1/2022 16:00	12/1/2022 17:00	1203.5
12/1/2022 17:00	12/1/2022 18:00	1276.6
12/1/2022 18:00	12/1/2022 19:00	1263.8
12/1/2022 19:00	12/1/2022 20:00	1227.4
12/1/2022 20:00	12/1/2022 21:00	1183.7
12/1/2022 21:00	12/1/2022 22:00	1129.3
12/1/2022 22:00	12/1/2022 23:00	1029.6
12/1/2022 23:00	12/2/2022 0:00	1060.8
12/2/2022 0:00	12/2/2022 1:00	1055.4
12/2/2022 1:00	12/2/2022 2:00	931.6
12/2/2022 2:00	12/2/2022 3:00	898.0
12/2/2022 3:00	12/2/2022 4:00	898.5
12/2/2022 4:00	12/2/2022 5:00	938.1
12/2/2022 5:00	12/2/2022 6:00	1010.0
12/2/2022 6:00	12/2/2022 7:00	1126.5
12/2/2022 7:00	12/2/2022 8:00	1232.8
12/2/2022 8:00	12/2/2022 9:00	1270.7
12/2/2022 9:00	12/2/2022 10:00	1260.7
12/2/2022 10:00	12/2/2022 11:00	1259.2
12/2/2022 11:00	12/2/2022 12:00	1293.2
12/2/2022 12:00	12/2/2022 13:00	1312.7
12/2/2022 13:00	12/2/2022 14:00	1306.7
12/2/2022 14:00	12/2/2022 15:00	1296.9
12/2/2022 15:00	12/2/2022 16:00	1328.6
12/2/2022 16:00	12/2/2022 17:00	1428.3
12/2/2022 17:00	12/2/2022 18:00	1526.0
12/2/2022 18:00	12/2/2022 19:00	1424.1
12/2/2022 19:00	12/2/2022 20:00	1392.9
12/2/2022 20:00	12/2/2022 21:00	1387.0
12/2/2022 21:00	12/2/2022 22:00	1353.2
12/2/2022 22:00	12/2/2022 23:00	1311.5
12/2/2022 23:00	12/3/2022 0:00	1299.9
12/3/2022 0:00	12/3/2022 1:00	1293.5
12/3/2022 1:00	12/3/2022 2:00	1273.5

Start Time	End Time	ANL_MW
12/3/2022 2:00	12/3/2022 3:00	1211.3
12/3/2022 3:00	12/3/2022 4:00	1117.3
12/3/2022 4:00	12/3/2022 5:00	1038.5
12/3/2022 5:00	12/3/2022 6:00	1006.9
12/3/2022 6:00	12/3/2022 7:00	1042.7
12/3/2022 7:00	12/3/2022 8:00	1089.0
12/3/2022 8:00	12/3/2022 9:00	1110.3
12/3/2022 9:00	12/3/2022 10:00	1126.9
12/3/2022 10:00	12/3/2022 11:00	1035.4
12/3/2022 11:00	12/3/2022 12:00	961.6
12/3/2022 12:00	12/3/2022 13:00	945.4
12/3/2022 13:00	12/3/2022 14:00	978.5
12/3/2022 14:00	12/3/2022 15:00	954.8
12/3/2022 15:00	12/3/2022 16:00	938.2
12/3/2022 16:00	12/3/2022 17:00	1013.7
12/3/2022 17:00	12/3/2022 18:00	1053.6
12/3/2022 18:00	12/3/2022 19:00	996.7
12/3/2022 19:00	12/3/2022 20:00	958.2
12/3/2022 20:00	12/3/2022 21:00	946.6
12/3/2022 21:00	12/3/2022 22:00	913.0
12/3/2022 22:00	12/3/2022 23:00	858.4
12/3/2022 23:00	12/4/2022 0:00	830.4
12/4/2022 0:00	12/4/2022 1:00	777.1
12/4/2022 1:00	12/4/2022 2:00	730.3
12/4/2022 2:00	12/4/2022 3:00	715.1
12/4/2022 3:00	12/4/2022 4:00	730.2
12/4/2022 4:00	12/4/2022 5:00	731.1
12/4/2022 5:00	12/4/2022 6:00	755.2
12/4/2022 6:00	12/4/2022 7:00	818.0
12/4/2022 7:00	12/4/2022 8:00	954.0
12/4/2022 8:00	12/4/2022 9:00	1050.1
12/4/2022 9:00	12/4/2022 10:00	1111.3
12/4/2022 10:00	12/4/2022 11:00	1105.7
12/4/2022 11:00	12/4/2022 12:00	1146.6
12/4/2022 12:00	12/4/2022 13:00	1188.8
12/4/2022 13:00	12/4/2022 14:00	1198.8
12/4/2022 14:00	12/4/2022 15:00	1218.8
12/4/2022 15:00	12/4/2022 16:00	1267.9
12/4/2022 16:00	12/4/2022 17:00	1380.2
12/4/2022 17:00	12/4/2022 18:00	1420.8
12/4/2022 18:00	12/4/2022 19:00	1425.7
12/4/2022 19:00	12/4/2022 20:00	1419.6
12/4/2022 20:00	12/4/2022 21:00	1428.9
12/4/2022 21:00	12/4/2022 22:00	1410.0
12/4/2022 22:00	12/4/2022 23:00	1333.5
12/4/2022 23:00	12/5/2022 0:00	1264.3
12/5/2022 0:00	12/5/2022 1:00	1231.6
12/5/2022 1:00	12/5/2022 2:00	1253.2
12/5/2022 2:00	12/5/2022 3:00	1271.6
12/5/2022 3:00	12/5/2022 4:00	1305.6
12/5/2022 4:00	12/5/2022 5:00	1353.8
12/5/2022 5:00	12/5/2022 6:00	1407.1
12/5/2022 6:00	12/5/2022 7:00	1510.3
12/5/2022 7:00	12/5/2022 8:00	1585.1
12/5/2022 8:00	12/5/2022 9:00	1581.2
12/5/2022 9:00	12/5/2022 10:00	1501.9
12/5/2022 10:00	12/5/2022 11:00	1440.5
12/5/2022 11:00	12/5/2022 12:00	1386.2
12/5/2022 12:00	12/5/2022 13:00	1344.4
12/5/2022 13:00	12/5/2022 14:00	1287.0
12/5/2022 14:00	12/5/2022 15:00	1271.4
12/5/2022 15:00	12/5/2022 16:00	1314.6
12/5/2022 16:00	12/5/2022 17:00	1452.5
12/5/2022 17:00	12/5/2022 18:00	1555.7
12/5/2022 18:00	12/5/2022 19:00	1525.2
12/5/2022 19:00	12/5/2022 20:00	1515.7
12/5/2022 20:00	12/5/2022 21:00	1530.6
12/5/2022 21:00	12/5/2022 22:00	1474.0
12/5/2022 22:00	12/5/2022 23:00	1429.2
12/5/2022 23:00	12/6/2022 0:00	1410.1

Start Time	End Time	ANL_MW
12/6/2022 0:00	12/6/2022 1:00	1390.6
12/6/2022 1:00	12/6/2022 2:00	1337.9
12/6/2022 2:00	12/6/2022 3:00	1280.4
12/6/2022 3:00	12/6/2022 4:00	1255.3
12/6/2022 4:00	12/6/2022 5:00	1333.1
12/6/2022 5:00	12/6/2022 6:00	1398.7
12/6/2022 6:00	12/6/2022 7:00	1444.6
12/6/2022 7:00	12/6/2022 8:00	1516.1
12/6/2022 8:00	12/6/2022 9:00	1531.9
12/6/2022 9:00	12/6/2022 10:00	1487.5
12/6/2022 10:00	12/6/2022 11:00	1466.2
12/6/2022 11:00	12/6/2022 12:00	1437.5
12/6/2022 12:00	12/6/2022 13:00	1428.1
12/6/2022 13:00	12/6/2022 14:00	1399.8
12/6/2022 14:00	12/6/2022 15:00	1392.7
12/6/2022 15:00	12/6/2022 16:00	1419.6
12/6/2022 16:00	12/6/2022 17:00	1482.9
12/6/2022 17:00	12/6/2022 18:00	1491.2
12/6/2022 18:00	12/6/2022 19:00	1445.4
12/6/2022 19:00	12/6/2022 20:00	1432.8
12/6/2022 20:00	12/6/2022 21:00	1412.1
12/6/2022 21:00	12/6/2022 22:00	1306.0
12/6/2022 22:00	12/6/2022 23:00	1196.1
12/6/2022 23:00	12/7/2022 0:00	1151.3
12/7/2022 0:00	12/7/2022 1:00	1095.7
12/7/2022 1:00	12/7/2022 2:00	1046.1
12/7/2022 2:00	12/7/2022 3:00	1005.9
12/7/2022 3:00	12/7/2022 4:00	984.0
12/7/2022 4:00	12/7/2022 5:00	1007.4
12/7/2022 5:00	12/7/2022 6:00	1046.8
12/7/2022 6:00	12/7/2022 7:00	1075.4
12/7/2022 7:00	12/7/2022 8:00	1147.4
12/7/2022 8:00	12/7/2022 9:00	1190.7
12/7/2022 9:00	12/7/2022 10:00	1180.6
12/7/2022 10:00	12/7/2022 11:00	1177.6
12/7/2022 11:00	12/7/2022 12:00	1165.0
12/7/2022 12:00	12/7/2022 13:00	1150.4
12/7/2022 13:00	12/7/2022 14:00	1147.7
12/7/2022 14:00	12/7/2022 15:00	1117.1
12/7/2022 15:00	12/7/2022 16:00	1137.0
12/7/2022 16:00	12/7/2022 17:00	1203.5
12/7/2022 17:00	12/7/2022 18:00	1233.9
12/7/2022 18:00	12/7/2022 19:00	1193.6
12/7/2022 19:00	12/7/2022 20:00	1175.1
12/7/2022 20:00	12/7/2022 21:00	1120.4
12/7/2022 21:00	12/7/2022 22:00	1016.6
12/7/2022 22:00	12/7/2022 23:00	972.2
12/7/2022 23:00	12/8/2022 0:00	976.8
12/8/2022 0:00	12/8/2022 1:00	925.6
12/8/2022 1:00	12/8/2022 2:00	886.5
12/8/2022 2:00	12/8/2022 3:00	858.8
12/8/2022 3:00	12/8/2022 4:00	816.8
12/8/2022 4:00	12/8/2022 5:00	760.1
12/8/2022 5:00	12/8/2022 6:00	790.2
12/8/2022 6:00	12/8/2022 7:00	927.6
12/8/2022 7:00	12/8/2022 8:00	1050.0
12/8/2022 8:00	12/8/2022 9:00	1043.0
12/8/2022 9:00	12/8/2022 10:00	1037.4
12/8/2022 10:00	12/8/2022 11:00	1030.0
12/8/2022 11:00	12/8/2022 12:00	1048.8
12/8/2022 12:00	12/8/2022 13:00	1030.6
12/8/2022 13:00	12/8/2022 14:00	1035.6
12/8/2022 14:00	12/8/2022 15:00	1041.3
12/8/2022 15:00	12/8/2022 16:00	1064.0
12/8/2022 16:00	12/8/2022 17:00	1123.6
12/8/2022 17:00	12/8/2022 18:00	1164.8
12/8/2022 18:00	12/8/2022 19:00	1158.2
12/8/2022 19:00	12/8/2022 20:00	1111.1
12/8/2022 20:00	12/8/2022 21:00	1057.2
12/8/2022 21:00	12/8/2022 22:00	1045.3

Start Time	End Time	ANL_MW
12/8/2022 22:00	12/8/2022 23:00	996.8
12/8/2022 23:00	12/9/2022 0:00	943.7
12/9/2022 0:00	12/9/2022 1:00	888.2
12/9/2022 1:00	12/9/2022 2:00	918.9
12/9/2022 2:00	12/9/2022 3:00	906.1
12/9/2022 3:00	12/9/2022 4:00	896.5
12/9/2022 4:00	12/9/2022 5:00	915.4
12/9/2022 5:00	12/9/2022 6:00	964.4
12/9/2022 6:00	12/9/2022 7:00	1081.5
12/9/2022 7:00	12/9/2022 8:00	1134.4
12/9/2022 8:00	12/9/2022 9:00	1189.5
12/9/2022 9:00	12/9/2022 10:00	1223.1
12/9/2022 10:00	12/9/2022 11:00	1238.8
12/9/2022 11:00	12/9/2022 12:00	1216.9
12/9/2022 12:00	12/9/2022 13:00	1217.1
12/9/2022 13:00	12/9/2022 14:00	1200.4
12/9/2022 14:00	12/9/2022 15:00	1180.6
12/9/2022 15:00	12/9/2022 16:00	1179.5
12/9/2022 16:00	12/9/2022 17:00	1227.5
12/9/2022 17:00	12/9/2022 18:00	1260.6
12/9/2022 18:00	12/9/2022 19:00	1233.6
12/9/2022 19:00	12/9/2022 20:00	1214.1
12/9/2022 20:00	12/9/2022 21:00	1207.1
12/9/2022 21:00	12/9/2022 22:00	1155.6
12/9/2022 22:00	12/9/2022 23:00	1075.6
12/9/2022 23:00	12/10/2022 0:00	1039.7
12/10/2022 0:00	12/10/2022 1:00	977.8
12/10/2022 1:00	12/10/2022 2:00	926.7
12/10/2022 2:00	12/10/2022 3:00	898.5
12/10/2022 3:00	12/10/2022 4:00	896.2
12/10/2022 4:00	12/10/2022 5:00	935.0
12/10/2022 5:00	12/10/2022 6:00	983.2
12/10/2022 6:00	12/10/2022 7:00	1057.5
12/10/2022 7:00	12/10/2022 8:00	1150.1
12/10/2022 8:00	12/10/2022 9:00	1197.4
12/10/2022 9:00	12/10/2022 10:00	1237.8
12/10/2022 10:00	12/10/2022 11:00	1279.0
12/10/2022 11:00	12/10/2022 12:00	1321.1
12/10/2022 12:00	12/10/2022 13:00	1351.6
12/10/2022 13:00	12/10/2022 14:00	1390.5
12/10/2022 14:00	12/10/2022 15:00	1406.5
12/10/2022 15:00	12/10/2022 16:00	1442.6
12/10/2022 16:00	12/10/2022 17:00	1485.0
12/10/2022 17:00	12/10/2022 18:00	1529.2
12/10/2022 18:00	12/10/2022 19:00	1466.3
12/10/2022 19:00	12/10/2022 20:00	1430.2
12/10/2022 20:00	12/10/2022 21:00	1400.1
12/10/2022 21:00	12/10/2022 22:00	1354.7
12/10/2022 22:00	12/10/2022 23:00	1339.5
12/10/2022 23:00	12/11/2022 0:00	1294.3
12/11/2022 0:00	12/11/2022 1:00	1247.3
12/11/2022 1:00	12/11/2022 2:00	1221.2
12/11/2022 2:00	12/11/2022 3:00	1214.6
12/11/2022 3:00	12/11/2022 4:00	1227.0
12/11/2022 4:00	12/11/2022 5:00	1245.8
12/11/2022 5:00	12/11/2022 6:00	1238.5
12/11/2022 6:00	12/11/2022 7:00	1288.6
12/11/2022 7:00	12/11/2022 8:00	1372.6
12/11/2022 8:00	12/11/2022 9:00	1473.2
12/11/2022 9:00	12/11/2022 10:00	1522.1
12/11/2022 10:00	12/11/2022 11:00	1556.4
12/11/2022 11:00	12/11/2022 12:00	1600.2
12/11/2022 12:00	12/11/2022 13:00	1617.6
12/11/2022 13:00	12/11/2022 14:00	1619.1
12/11/2022 14:00	12/11/2022 15:00	1616.9
12/11/2022 15:00	12/11/2022 16:00	1645.6
12/11/2022 16:00	12/11/2022 17:00	1739.6
12/11/2022 17:00	12/11/2022 18:00	1793.7
12/11/2022 18:00	12/11/2022 19:00	1738.6
12/11/2022 19:00	12/11/2022 20:00	1713.9

Start Time	End Time	ANL_MW
12/11/2022 20:00	12/11/2022 21:00	1675.5
12/11/2022 21:00	12/11/2022 22:00	1623.4
12/11/2022 22:00	12/11/2022 23:00	1518.2
12/11/2022 23:00	12/12/2022 0:00	1423.3
12/12/2022 0:00	12/12/2022 1:00	1386.8
12/12/2022 1:00	12/12/2022 2:00	1410.0
12/12/2022 2:00	12/12/2022 3:00	1425.8
12/12/2022 3:00	12/12/2022 4:00	1435.0
12/12/2022 4:00	12/12/2022 5:00	1479.0
12/12/2022 5:00	12/12/2022 6:00	1546.9
12/12/2022 6:00	12/12/2022 7:00	1591.7
12/12/2022 7:00	12/12/2022 8:00	1669.3
12/12/2022 8:00	12/12/2022 9:00	1687.9
12/12/2022 9:00	12/12/2022 10:00	1687.8
12/12/2022 10:00	12/12/2022 11:00	1685.5
12/12/2022 11:00	12/12/2022 12:00	1655.3
12/12/2022 12:00	12/12/2022 13:00	1659.7
12/12/2022 13:00	12/12/2022 14:00	1638.8
12/12/2022 14:00	12/12/2022 15:00	1598.9
12/12/2022 15:00	12/12/2022 16:00	1595.4
12/12/2022 16:00	12/12/2022 17:00	1657.3
12/12/2022 17:00	12/12/2022 18:00	1697.8
12/12/2022 18:00	12/12/2022 19:00	1641.0
12/12/2022 19:00	12/12/2022 20:00	1602.4
12/12/2022 20:00	12/12/2022 21:00	1584.2
12/12/2022 21:00	12/12/2022 22:00	1554.5
12/12/2022 22:00	12/12/2022 23:00	1441.0
12/12/2022 23:00	12/13/2022 0:00	1361.2
12/13/2022 0:00	12/13/2022 1:00	1292.2
12/13/2022 1:00	12/13/2022 2:00	1229.2
12/13/2022 2:00	12/13/2022 3:00	1197.2
12/13/2022 3:00	12/13/2022 4:00	1178.5
12/13/2022 4:00	12/13/2022 5:00	1206.7
12/13/2022 5:00	12/13/2022 6:00	1250.0
12/13/2022 6:00	12/13/2022 7:00	1368.1
12/13/2022 7:00	12/13/2022 8:00	1461.2
12/13/2022 8:00	12/13/2022 9:00	1485.8
12/13/2022 9:00	12/13/2022 10:00	1460.1
12/13/2022 10:00	12/13/2022 11:00	1426.6
12/13/2022 11:00	12/13/2022 12:00	1399.2
12/13/2022 12:00	12/13/2022 13:00	1393.4
12/13/2022 13:00	12/13/2022 14:00	1366.8
12/13/2022 14:00	12/13/2022 15:00	1346.9
12/13/2022 15:00	12/13/2022 16:00	1388.4
12/13/2022 16:00	12/13/2022 17:00	1505.0
12/13/2022 17:00	12/13/2022 18:00	1606.9
12/13/2022 18:00	12/13/2022 19:00	1563.2
12/13/2022 19:00	12/13/2022 20:00	1509.9
12/13/2022 20:00	12/13/2022 21:00	1456.0
12/13/2022 21:00	12/13/2022 22:00	1373.3
12/13/2022 22:00	12/13/2022 23:00	1242.1
12/13/2022 23:00	12/14/2022 0:00	1162.7
12/14/2022 0:00	12/14/2022 1:00	1136.3
12/14/2022 1:00	12/14/2022 2:00	1120.1
12/14/2022 2:00	12/14/2022 3:00	1122.1
12/14/2022 3:00	12/14/2022 4:00	1120.2
12/14/2022 4:00	12/14/2022 5:00	1139.5
12/14/2022 5:00	12/14/2022 6:00	1195.3
12/14/2022 6:00	12/14/2022 7:00	1344.1
12/14/2022 7:00	12/14/2022 8:00	1479.8
12/14/2022 8:00	12/14/2022 9:00	1555.8
12/14/2022 9:00	12/14/2022 10:00	1574.8
12/14/2022 10:00	12/14/2022 11:00	1598.0
12/14/2022 11:00	12/14/2022 12:00	1586.8
12/14/2022 12:00	12/14/2022 13:00	1561.8
12/14/2022 13:00	12/14/2022 14:00	1514.6
12/14/2022 14:00	12/14/2022 15:00	1496.7
12/14/2022 15:00	12/14/2022 16:00	1527.2
12/14/2022 16:00	12/14/2022 17:00	1625.5
12/14/2022 17:00	12/14/2022 18:00	1668.1

Start Time	End Time	ANL_MW
12/14/2022 18:00	12/14/2022 19:00	1562.0
12/14/2022 19:00	12/14/2022 20:00	1491.9
12/14/2022 20:00	12/14/2022 21:00	1409.8
12/14/2022 21:00	12/14/2022 22:00	1374.1
12/14/2022 22:00	12/14/2022 23:00	1317.4
12/14/2022 23:00	12/15/2022 0:00	1268.3
12/15/2022 0:00	12/15/2022 1:00	1222.8
12/15/2022 1:00	12/15/2022 2:00	1185.8
12/15/2022 2:00	12/15/2022 3:00	1159.6
12/15/2022 3:00	12/15/2022 4:00	1123.1
12/15/2022 4:00	12/15/2022 5:00	1108.5
12/15/2022 5:00	12/15/2022 6:00	1148.2
12/15/2022 6:00	12/15/2022 7:00	1251.4
12/15/2022 7:00	12/15/2022 8:00	1331.8
12/15/2022 8:00	12/15/2022 9:00	1294.3
12/15/2022 9:00	12/15/2022 10:00	1275.8
12/15/2022 10:00	12/15/2022 11:00	1267.9
12/15/2022 11:00	12/15/2022 12:00	1267.5
12/15/2022 12:00	12/15/2022 13:00	1215.4
12/15/2022 13:00	12/15/2022 14:00	1207.0
12/15/2022 14:00	12/15/2022 15:00	1198.8
12/15/2022 15:00	12/15/2022 16:00	1249.0
12/15/2022 16:00	12/15/2022 17:00	1308.9
12/15/2022 17:00	12/15/2022 18:00	1378.7
12/15/2022 18:00	12/15/2022 19:00	1370.8
12/15/2022 19:00	12/15/2022 20:00	1343.4
12/15/2022 20:00	12/15/2022 21:00	1293.5
12/15/2022 21:00	12/15/2022 22:00	1248.6
12/15/2022 22:00	12/15/2022 23:00	1263.9
12/15/2022 23:00	12/16/2022 0:00	1245.8
12/16/2022 0:00	12/16/2022 1:00	1209.9
12/16/2022 1:00	12/16/2022 2:00	1188.0
12/16/2022 2:00	12/16/2022 3:00	1179.2
12/16/2022 3:00	12/16/2022 4:00	1199.5
12/16/2022 4:00	12/16/2022 5:00	1193.5
12/16/2022 5:00	12/16/2022 6:00	1199.8
12/16/2022 6:00	12/16/2022 7:00	1309.9
12/16/2022 7:00	12/16/2022 8:00	1430.9
12/16/2022 8:00	12/16/2022 9:00	1477.0
12/16/2022 9:00	12/16/2022 10:00	1478.2
12/16/2022 10:00	12/16/2022 11:00	1439.1
12/16/2022 11:00	12/16/2022 12:00	1450.0
12/16/2022 12:00	12/16/2022 13:00	1457.0
12/16/2022 13:00	12/16/2022 14:00	1441.9
12/16/2022 14:00	12/16/2022 15:00	1427.6
12/16/2022 15:00	12/16/2022 16:00	1427.0
12/16/2022 16:00	12/16/2022 17:00	1436.2
12/16/2022 17:00	12/16/2022 18:00	1466.3
12/16/2022 18:00	12/16/2022 19:00	1443.0
12/16/2022 19:00	12/16/2022 20:00	1376.4
12/16/2022 20:00	12/16/2022 21:00	1308.2
12/16/2022 21:00	12/16/2022 22:00	1235.8
12/16/2022 22:00	12/16/2022 23:00	1176.0
12/16/2022 23:00	12/17/2022 0:00	1131.3
12/17/2022 0:00	12/17/2022 1:00	1084.7
12/17/2022 1:00	12/17/2022 2:00	1046.5
12/17/2022 2:00	12/17/2022 3:00	991.0
12/17/2022 3:00	12/17/2022 4:00	960.7
12/17/2022 4:00	12/17/2022 5:00	945.0
12/17/2022 5:00	12/17/2022 6:00	969.8
12/17/2022 6:00	12/17/2022 7:00	1014.4
12/17/2022 7:00	12/17/2022 8:00	1068.7
12/17/2022 8:00	12/17/2022 9:00	1135.2
12/17/2022 9:00	12/17/2022 10:00	1137.5
12/17/2022 10:00	12/17/2022 11:00	1171.5
12/17/2022 11:00	12/17/2022 12:00	1198.1
12/17/2022 12:00	12/17/2022 13:00	1193.1
12/17/2022 13:00	12/17/2022 14:00	1181.7
12/17/2022 14:00	12/17/2022 15:00	1173.9
12/17/2022 15:00	12/17/2022 16:00	1188.4

Start Time	End Time	ANL_MW
12/17/2022 16:00	12/17/2022 17:00	1253.4
12/17/2022 17:00	12/17/2022 18:00	1312.0
12/17/2022 18:00	12/17/2022 19:00	1272.1
12/17/2022 19:00	12/17/2022 20:00	1235.6
12/17/2022 20:00	12/17/2022 21:00	1209.8
12/17/2022 21:00	12/17/2022 22:00	1247.8
12/17/2022 22:00	12/17/2022 23:00	1199.4
12/17/2022 23:00	12/18/2022 0:00	1159.9
12/18/2022 0:00	12/18/2022 1:00	1122.4
12/18/2022 1:00	12/18/2022 2:00	1099.1
12/18/2022 2:00	12/18/2022 3:00	1093.0
12/18/2022 3:00	12/18/2022 4:00	1107.5
12/18/2022 4:00	12/18/2022 5:00	1110.2
12/18/2022 5:00	12/18/2022 6:00	1147.3
12/18/2022 6:00	12/18/2022 7:00	1220.5
12/18/2022 7:00	12/18/2022 8:00	1231.1
12/18/2022 8:00	12/18/2022 9:00	1328.6
12/18/2022 9:00	12/18/2022 10:00	1380.5
12/18/2022 10:00	12/18/2022 11:00	1392.2
12/18/2022 11:00	12/18/2022 12:00	1384.4
12/18/2022 12:00	12/18/2022 13:00	1369.9
12/18/2022 13:00	12/18/2022 14:00	1366.1
12/18/2022 14:00	12/18/2022 15:00	1370.5
12/18/2022 15:00	12/18/2022 16:00	1399.2
12/18/2022 16:00	12/18/2022 17:00	1488.7
12/18/2022 17:00	12/18/2022 18:00	1548.6
12/18/2022 18:00	12/18/2022 19:00	1509.1
12/18/2022 19:00	12/18/2022 20:00	1480.5
12/18/2022 20:00	12/18/2022 21:00	1448.5
12/18/2022 21:00	12/18/2022 22:00	1426.2
12/18/2022 22:00	12/18/2022 23:00	1356.1
12/18/2022 23:00	12/19/2022 0:00	1274.7
12/19/2022 0:00	12/19/2022 1:00	1246.9
12/19/2022 1:00	12/19/2022 2:00	1217.8
12/19/2022 2:00	12/19/2022 3:00	1202.3
12/19/2022 3:00	12/19/2022 4:00	1200.6
12/19/2022 4:00	12/19/2022 5:00	1207.6
12/19/2022 5:00	12/19/2022 6:00	1250.2
12/19/2022 6:00	12/19/2022 7:00	1358.0
12/19/2022 7:00	12/19/2022 8:00	1469.6
12/19/2022 8:00	12/19/2022 9:00	1509.4
12/19/2022 9:00	12/19/2022 10:00	1523.9
12/19/2022 10:00	12/19/2022 11:00	1512.8
12/19/2022 11:00	12/19/2022 12:00	1511.3
12/19/2022 12:00	12/19/2022 13:00	1492.4
12/19/2022 13:00	12/19/2022 14:00	1462.0
12/19/2022 14:00	12/19/2022 15:00	1443.4
12/19/2022 15:00	12/19/2022 16:00	1447.1
12/19/2022 16:00	12/19/2022 17:00	1496.2
12/19/2022 17:00	12/19/2022 18:00	1555.3
12/19/2022 18:00	12/19/2022 19:00	1503.4
12/19/2022 19:00	12/19/2022 20:00	1448.6
12/19/2022 20:00	12/19/2022 21:00	1375.9
12/19/2022 21:00	12/19/2022 22:00	1313.2
12/19/2022 22:00	12/19/2022 23:00	1201.2
12/19/2022 23:00	12/20/2022 0:00	1139.6
12/20/2022 0:00	12/20/2022 1:00	1095.5
12/20/2022 1:00	12/20/2022 2:00	1025.6
12/20/2022 2:00	12/20/2022 3:00	953.4
12/20/2022 3:00	12/20/2022 4:00	938.1
12/20/2022 4:00	12/20/2022 5:00	936.0
12/20/2022 5:00	12/20/2022 6:00	984.2
12/20/2022 6:00	12/20/2022 7:00	1110.1
12/20/2022 7:00	12/20/2022 8:00	1217.7
12/20/2022 8:00	12/20/2022 9:00	1267.1
12/20/2022 9:00	12/20/2022 10:00	1259.6
12/20/2022 10:00	12/20/2022 11:00	1262.1
12/20/2022 11:00	12/20/2022 12:00	1213.5
12/20/2022 12:00	12/20/2022 13:00	1214.4
12/20/2022 13:00	12/20/2022 14:00	1205.4

Start Time	End Time	ANL_MW
12/20/2022 14:00	12/20/2022 15:00	1211.1
12/20/2022 15:00	12/20/2022 16:00	1238.5
12/20/2022 16:00	12/20/2022 17:00	1318.5
12/20/2022 17:00	12/20/2022 18:00	1397.7
12/20/2022 18:00	12/20/2022 19:00	1382.2
12/20/2022 19:00	12/20/2022 20:00	1391.0
12/20/2022 20:00	12/20/2022 21:00	1362.9
12/20/2022 21:00	12/20/2022 22:00	1358.4
12/20/2022 22:00	12/20/2022 23:00	1307.5
12/20/2022 23:00	12/21/2022 0:00	1286.2
12/21/2022 0:00	12/21/2022 1:00	1267.4
12/21/2022 1:00	12/21/2022 2:00	1241.9
12/21/2022 2:00	12/21/2022 3:00	1217.7
12/21/2022 3:00	12/21/2022 4:00	1216.6
12/21/2022 4:00	12/21/2022 5:00	1227.8
12/21/2022 5:00	12/21/2022 6:00	1277.5
12/21/2022 6:00	12/21/2022 7:00	1383.1
12/21/2022 7:00	12/21/2022 8:00	1454.0
12/21/2022 8:00	12/21/2022 9:00	1490.0
12/21/2022 9:00	12/21/2022 10:00	1492.2
12/21/2022 10:00	12/21/2022 11:00	1479.6
12/21/2022 11:00	12/21/2022 12:00	1456.3
12/21/2022 12:00	12/21/2022 13:00	1467.8
12/21/2022 13:00	12/21/2022 14:00	1463.7
12/21/2022 14:00	12/21/2022 15:00	1445.4
12/21/2022 15:00	12/21/2022 16:00	1465.2
12/21/2022 16:00	12/21/2022 17:00	1579.9
12/21/2022 17:00	12/21/2022 18:00	1691.3
12/21/2022 18:00	12/21/2022 19:00	1665.0
12/21/2022 19:00	12/21/2022 20:00	1634.7
12/21/2022 20:00	12/21/2022 21:00	1599.9
12/21/2022 21:00	12/21/2022 22:00	1545.9
12/21/2022 22:00	12/21/2022 23:00	1453.2
12/21/2022 23:00	12/22/2022 0:00	1374.9
12/22/2022 0:00	12/22/2022 1:00	1338.0
12/22/2022 1:00	12/22/2022 2:00	1307.6
12/22/2022 2:00	12/22/2022 3:00	1284.9
12/22/2022 3:00	12/22/2022 4:00	1276.0
12/22/2022 4:00	12/22/2022 5:00	1271.6
12/22/2022 5:00	12/22/2022 6:00	1293.4
12/22/2022 6:00	12/22/2022 7:00	1401.0
12/22/2022 7:00	12/22/2022 8:00	1527.1
12/22/2022 8:00	12/22/2022 9:00	1558.6
12/22/2022 9:00	12/22/2022 10:00	1561.9
12/22/2022 10:00	12/22/2022 11:00	1530.5
12/22/2022 11:00	12/22/2022 12:00	1501.9
12/22/2022 12:00	12/22/2022 13:00	1465.1
12/22/2022 13:00	12/22/2022 14:00	1456.1
12/22/2022 14:00	12/22/2022 15:00	1467.4
12/22/2022 15:00	12/22/2022 16:00	1519.3
12/22/2022 16:00	12/22/2022 17:00	1605.3
12/22/2022 17:00	12/22/2022 18:00	1691.8
12/22/2022 18:00	12/22/2022 19:00	1681.8
12/22/2022 19:00	12/22/2022 20:00	1663.0
12/22/2022 20:00	12/22/2022 21:00	1644.3
12/22/2022 21:00	12/22/2022 22:00	1595.9
12/22/2022 22:00	12/22/2022 23:00	1526.6
12/22/2022 23:00	12/23/2022 0:00	1482.6
12/23/2022 0:00	12/23/2022 1:00	1414.7
12/23/2022 1:00	12/23/2022 2:00	1401.9
12/23/2022 2:00	12/23/2022 3:00	1328.8
12/23/2022 3:00	12/23/2022 4:00	1268.8
12/23/2022 4:00	12/23/2022 5:00	1232.0
12/23/2022 5:00	12/23/2022 6:00	1210.0
12/23/2022 6:00	12/23/2022 7:00	1270.0
12/23/2022 7:00	12/23/2022 8:00	1327.3
12/23/2022 8:00	12/23/2022 9:00	1335.1
12/23/2022 9:00	12/23/2022 10:00	1371.0
12/23/2022 10:00	12/23/2022 11:00	1360.2
12/23/2022 11:00	12/23/2022 12:00	1343.8

Start Time	End Time	ANL_MW
12/23/2022 12:00	12/23/2022 13:00	1322.8
12/23/2022 13:00	12/23/2022 14:00	1291.8
12/23/2022 14:00	12/23/2022 15:00	1266.9
12/23/2022 15:00	12/23/2022 16:00	1251.7
12/23/2022 16:00	12/23/2022 17:00	1290.6
12/23/2022 17:00	12/23/2022 18:00	1330.7
12/23/2022 18:00	12/23/2022 19:00	1295.2
12/23/2022 19:00	12/23/2022 20:00	1249.6
12/23/2022 20:00	12/23/2022 21:00	1229.1
12/23/2022 21:00	12/23/2022 22:00	1154.8
12/23/2022 22:00	12/23/2022 23:00	1111.2
12/23/2022 23:00	12/24/2022 0:00	1037.3
12/24/2022 0:00	12/24/2022 1:00	968.7
12/24/2022 1:00	12/24/2022 2:00	891.8
12/24/2022 2:00	12/24/2022 3:00	864.6
12/24/2022 3:00	12/24/2022 4:00	829.2
12/24/2022 4:00	12/24/2022 5:00	827.3
12/24/2022 5:00	12/24/2022 6:00	866.5
12/24/2022 6:00	12/24/2022 7:00	872.2
12/24/2022 7:00	12/24/2022 8:00	956.0
12/24/2022 8:00	12/24/2022 9:00	1076.8
12/24/2022 9:00	12/24/2022 10:00	1156.9
12/24/2022 10:00	12/24/2022 11:00	1173.9
12/24/2022 11:00	12/24/2022 12:00	1186.8
12/24/2022 12:00	12/24/2022 13:00	1148.0
12/24/2022 13:00	12/24/2022 14:00	1061.6
12/24/2022 14:00	12/24/2022 15:00	1089.5
12/24/2022 15:00	12/24/2022 16:00	1133.3
12/24/2022 16:00	12/24/2022 17:00	1202.2
12/24/2022 17:00	12/24/2022 18:00	1236.9
12/24/2022 18:00	12/24/2022 19:00	1181.4
12/24/2022 19:00	12/24/2022 20:00	1154.6
12/24/2022 20:00	12/24/2022 21:00	1145.5
12/24/2022 21:00	12/24/2022 22:00	1131.9
12/24/2022 22:00	12/24/2022 23:00	1093.3
12/24/2022 23:00	12/25/2022 0:00	1056.5
12/25/2022 0:00	12/25/2022 1:00	1034.7
12/25/2022 1:00	12/25/2022 2:00	1026.8
12/25/2022 2:00	12/25/2022 3:00	1029.3
12/25/2022 3:00	12/25/2022 4:00	994.6
12/25/2022 4:00	12/25/2022 5:00	988.4
12/25/2022 5:00	12/25/2022 6:00	1030.3
12/25/2022 6:00	12/25/2022 7:00	1106.0
12/25/2022 7:00	12/25/2022 8:00	1177.3
12/25/2022 8:00	12/25/2022 9:00	1229.0
12/25/2022 9:00	12/25/2022 10:00	1235.8
12/25/2022 10:00	12/25/2022 11:00	1262.4
12/25/2022 11:00	12/25/2022 12:00	1284.8
12/25/2022 12:00	12/25/2022 13:00	1310.7
12/25/2022 13:00	12/25/2022 14:00	1305.5
12/25/2022 14:00	12/25/2022 15:00	1299.6
12/25/2022 15:00	12/25/2022 16:00	1312.0
12/25/2022 16:00	12/25/2022 17:00	1321.0
12/25/2022 17:00	12/25/2022 18:00	1289.4
12/25/2022 18:00	12/25/2022 19:00	1224.0
12/25/2022 19:00	12/25/2022 20:00	1211.2
12/25/2022 20:00	12/25/2022 21:00	1211.2
12/25/2022 21:00	12/25/2022 22:00	1206.9
12/25/2022 22:00	12/25/2022 23:00	1198.2
12/25/2022 23:00	12/26/2022 0:00	1173.4
12/26/2022 0:00	12/26/2022 1:00	1168.6
12/26/2022 1:00	12/26/2022 2:00	1191.0
12/26/2022 2:00	12/26/2022 3:00	1192.5
12/26/2022 3:00	12/26/2022 4:00	1195.6
12/26/2022 4:00	12/26/2022 5:00	1212.6
12/26/2022 5:00	12/26/2022 6:00	1249.3
12/26/2022 6:00	12/26/2022 7:00	1279.4
12/26/2022 7:00	12/26/2022 8:00	1325.9
12/26/2022 8:00	12/26/2022 9:00	1400.9
12/26/2022 9:00	12/26/2022 10:00	1472.7

Start Time	End Time	ANL_MW
12/26/2022 10:00	12/26/2022 11:00	1475.0
12/26/2022 11:00	12/26/2022 12:00	1465.9
12/26/2022 12:00	12/26/2022 13:00	1457.5
12/26/2022 13:00	12/26/2022 14:00	1383.9
12/26/2022 14:00	12/26/2022 15:00	1332.2
12/26/2022 15:00	12/26/2022 16:00	1301.7
12/26/2022 16:00	12/26/2022 17:00	1385.4
12/26/2022 17:00	12/26/2022 18:00	1506.4
12/26/2022 18:00	12/26/2022 19:00	1491.8
12/26/2022 19:00	12/26/2022 20:00	1517.4
12/26/2022 20:00	12/26/2022 21:00	1508.9
12/26/2022 21:00	12/26/2022 22:00	1454.0
12/26/2022 22:00	12/26/2022 23:00	1371.0
12/26/2022 23:00	12/27/2022 0:00	1351.6
12/27/2022 0:00	12/27/2022 1:00	1346.8
12/27/2022 1:00	12/27/2022 2:00	1343.5
12/27/2022 2:00	12/27/2022 3:00	1317.4
12/27/2022 3:00	12/27/2022 4:00	1300.6
12/27/2022 4:00	12/27/2022 5:00	1306.7
12/27/2022 5:00	12/27/2022 6:00	1339.3
12/27/2022 6:00	12/27/2022 7:00	1405.3
12/27/2022 7:00	12/27/2022 8:00	1444.9
12/27/2022 8:00	12/27/2022 9:00	1466.7
12/27/2022 9:00	12/27/2022 10:00	1512.2
12/27/2022 10:00	12/27/2022 11:00	1530.4
12/27/2022 11:00	12/27/2022 12:00	1530.5
12/27/2022 12:00	12/27/2022 13:00	1491.9
12/27/2022 13:00	12/27/2022 14:00	1455.4
12/27/2022 14:00	12/27/2022 15:00	1424.7
12/27/2022 15:00	12/27/2022 16:00	1443.6
12/27/2022 16:00	12/27/2022 17:00	1499.7
12/27/2022 17:00	12/27/2022 18:00	1498.1
12/27/2022 18:00	12/27/2022 19:00	1479.7
12/27/2022 19:00	12/27/2022 20:00	1443.2
12/27/2022 20:00	12/27/2022 21:00	1380.4
12/27/2022 21:00	12/27/2022 22:00	1318.0
12/27/2022 22:00	12/27/2022 23:00	1264.4
12/27/2022 23:00	12/28/2022 0:00	1206.6
12/28/2022 0:00	12/28/2022 1:00	1180.0
12/28/2022 1:00	12/28/2022 2:00	1188.6
12/28/2022 2:00	12/28/2022 3:00	1193.4
12/28/2022 3:00	12/28/2022 4:00	1247.2
12/28/2022 4:00	12/28/2022 5:00	1301.1
12/28/2022 5:00	12/28/2022 6:00	1387.6
12/28/2022 6:00	12/28/2022 7:00	1516.2
12/28/2022 7:00	12/28/2022 8:00	1579.2
12/28/2022 8:00	12/28/2022 9:00	1649.3
12/28/2022 9:00	12/28/2022 10:00	1682.4
12/28/2022 10:00	12/28/2022 11:00	1659.1
12/28/2022 11:00	12/28/2022 12:00	1662.8
12/28/2022 12:00	12/28/2022 13:00	1679.6
12/28/2022 13:00	12/28/2022 14:00	1660.9
12/28/2022 14:00	12/28/2022 15:00	1634.6
12/28/2022 15:00	12/28/2022 16:00	1615.4
12/28/2022 16:00	12/28/2022 17:00	1652.0
12/28/2022 17:00	12/28/2022 18:00	1683.3
12/28/2022 18:00	12/28/2022 19:00	1641.7
12/28/2022 19:00	12/28/2022 20:00	1585.3
12/28/2022 20:00	12/28/2022 21:00	1522.5
12/28/2022 21:00	12/28/2022 22:00	1470.8
12/28/2022 22:00	12/28/2022 23:00	1402.6
12/28/2022 23:00	12/29/2022 0:00	1406.7
12/29/2022 0:00	12/29/2022 1:00	1403.6
12/29/2022 1:00	12/29/2022 2:00	1376.5
12/29/2022 2:00	12/29/2022 3:00	1346.2
12/29/2022 3:00	12/29/2022 4:00	1339.2
12/29/2022 4:00	12/29/2022 5:00	1359.9
12/29/2022 5:00	12/29/2022 6:00	1393.6
12/29/2022 6:00	12/29/2022 7:00	1491.0
12/29/2022 7:00	12/29/2022 8:00	1527.9

Start Time	End Time	ANL_MW
12/29/2022 8:00	12/29/2022 9:00	1593.6
12/29/2022 9:00	12/29/2022 10:00	1635.6
12/29/2022 10:00	12/29/2022 11:00	1646.8
12/29/2022 11:00	12/29/2022 12:00	1640.0
12/29/2022 12:00	12/29/2022 13:00	1592.4
12/29/2022 13:00	12/29/2022 14:00	1542.9
12/29/2022 14:00	12/29/2022 15:00	1531.0
12/29/2022 15:00	12/29/2022 16:00	1568.6
12/29/2022 16:00	12/29/2022 17:00	1596.3
12/29/2022 17:00	12/29/2022 18:00	1664.1
12/29/2022 18:00	12/29/2022 19:00	1613.5
12/29/2022 19:00	12/29/2022 20:00	1574.5
12/29/2022 20:00	12/29/2022 21:00	1532.5
12/29/2022 21:00	12/29/2022 22:00	1491.6
12/29/2022 22:00	12/29/2022 23:00	1441.3
12/29/2022 23:00	12/30/2022 0:00	1405.3
12/30/2022 0:00	12/30/2022 1:00	1350.9
12/30/2022 1:00	12/30/2022 2:00	1311.2
12/30/2022 2:00	12/30/2022 3:00	1267.2
12/30/2022 3:00	12/30/2022 4:00	1247.2
12/30/2022 4:00	12/30/2022 5:00	1251.5
12/30/2022 5:00	12/30/2022 6:00	1291.0
12/30/2022 6:00	12/30/2022 7:00	1336.4
12/30/2022 7:00	12/30/2022 8:00	1351.1
12/30/2022 8:00	12/30/2022 9:00	1400.9
12/30/2022 9:00	12/30/2022 10:00	1420.5
12/30/2022 10:00	12/30/2022 11:00	1393.6
12/30/2022 11:00	12/30/2022 12:00	1354.9
12/30/2022 12:00	12/30/2022 13:00	1317.0
12/30/2022 13:00	12/30/2022 14:00	1298.4
12/30/2022 14:00	12/30/2022 15:00	1299.0
12/30/2022 15:00	12/30/2022 16:00	1300.3
12/30/2022 16:00	12/30/2022 17:00	1358.7
12/30/2022 17:00	12/30/2022 18:00	1407.4
12/30/2022 18:00	12/30/2022 19:00	1374.8
12/30/2022 19:00	12/30/2022 20:00	1304.8
12/30/2022 20:00	12/30/2022 21:00	1228.0
12/30/2022 21:00	12/30/2022 22:00	1168.4
12/30/2022 22:00	12/30/2022 23:00	1049.6
12/30/2022 23:00	12/31/2022 0:00	992.7
12/31/2022 0:00	12/31/2022 1:00	1003.2
12/31/2022 1:00	12/31/2022 2:00	974.0
12/31/2022 2:00	12/31/2022 3:00	927.1
12/31/2022 3:00	12/31/2022 4:00	908.3
12/31/2022 4:00	12/31/2022 5:00	917.3
12/31/2022 5:00	12/31/2022 6:00	925.0
12/31/2022 6:00	12/31/2022 7:00	966.5
12/31/2022 7:00	12/31/2022 8:00	1019.1
12/31/2022 8:00	12/31/2022 9:00	1094.6
12/31/2022 9:00	12/31/2022 10:00	1147.6
12/31/2022 10:00	12/31/2022 11:00	1166.2
12/31/2022 11:00	12/31/2022 12:00	1167.6
12/31/2022 12:00	12/31/2022 13:00	1181.5
12/31/2022 13:00	12/31/2022 14:00	1167.1
12/31/2022 14:00	12/31/2022 15:00	1100.5
12/31/2022 15:00	12/31/2022 16:00	1085.4
12/31/2022 16:00	12/31/2022 17:00	1139.8
12/31/2022 17:00	12/31/2022 18:00	1175.4
12/31/2022 18:00	12/31/2022 19:00	1102.4
12/31/2022 19:00	12/31/2022 20:00	1062.5
12/31/2022 20:00	12/31/2022 21:00	1087.5
12/31/2022 21:00	12/31/2022 22:00	1032.4
12/31/2022 22:00	12/31/2022 23:00	970.0
12/31/2022 23:00	1/1/2023 0:00	938.6
1/1/2023 0:00	1/1/2023 1:00	902.7
1/1/2023 1:00	1/1/2023 2:00	930.6
1/1/2023 2:00	1/1/2023 3:00	931.0
1/1/2023 3:00	1/1/2023 4:00	892.6
1/1/2023 4:00	1/1/2023 5:00	906.5
1/1/2023 5:00	1/1/2023 6:00	923.6

Start Time	End Time	ANL_MW
1/1/2023 6:00	1/1/2023 7:00	962.4
1/1/2023 7:00	1/1/2023 8:00	988.6
1/1/2023 8:00	1/1/2023 9:00	1039.5
1/1/2023 9:00	1/1/2023 10:00	1097.5
1/1/2023 10:00	1/1/2023 11:00	1114.7
1/1/2023 11:00	1/1/2023 12:00	1155.9
1/1/2023 12:00	1/1/2023 13:00	1171.7
1/1/2023 13:00	1/1/2023 14:00	1118.1
1/1/2023 14:00	1/1/2023 15:00	1062.0
1/1/2023 15:00	1/1/2023 16:00	1037.0
1/1/2023 16:00	1/1/2023 17:00	1021.2
1/1/2023 17:00	1/1/2023 18:00	1025.7
1/1/2023 18:00	1/1/2023 19:00	1014.7
1/1/2023 19:00	1/1/2023 20:00	1057.2
1/1/2023 20:00	1/1/2023 21:00	1028.6
1/1/2023 21:00	1/1/2023 22:00	1020.6
1/1/2023 22:00	1/1/2023 23:00	1000.3
1/1/2023 23:00	1/2/2023 0:00	988.5
1/2/2023 0:00	1/2/2023 1:00	968.0
1/2/2023 1:00	1/2/2023 2:00	958.1
1/2/2023 2:00	1/2/2023 3:00	977.4
1/2/2023 3:00	1/2/2023 4:00	1002.2
1/2/2023 4:00	1/2/2023 5:00	1020.8
1/2/2023 5:00	1/2/2023 6:00	1039.5
1/2/2023 6:00	1/2/2023 7:00	1126.6
1/2/2023 7:00	1/2/2023 8:00	1219.8
1/2/2023 8:00	1/2/2023 9:00	1308.4
1/2/2023 9:00	1/2/2023 10:00	1376.4
1/2/2023 10:00	1/2/2023 11:00	1429.4
1/2/2023 11:00	1/2/2023 12:00	1411.1
1/2/2023 12:00	1/2/2023 13:00	1388.9
1/2/2023 13:00	1/2/2023 14:00	1378.0
1/2/2023 14:00	1/2/2023 15:00	1396.3
1/2/2023 15:00	1/2/2023 16:00	1426.7
1/2/2023 16:00	1/2/2023 17:00	1501.5
1/2/2023 17:00	1/2/2023 18:00	1552.9
1/2/2023 18:00	1/2/2023 19:00	1520.9
1/2/2023 19:00	1/2/2023 20:00	1502.1
1/2/2023 20:00	1/2/2023 21:00	1451.7
1/2/2023 21:00	1/2/2023 22:00	1390.5
1/2/2023 22:00	1/2/2023 23:00	1335.2
1/2/2023 23:00	1/3/2023 0:00	1360.0
1/3/2023 0:00	1/3/2023 1:00	1341.6
1/3/2023 1:00	1/3/2023 2:00	1329.9
1/3/2023 2:00	1/3/2023 3:00	1311.2
1/3/2023 3:00	1/3/2023 4:00	1289.1
1/3/2023 4:00	1/3/2023 5:00	1309.1
1/3/2023 5:00	1/3/2023 6:00	1365.5
1/3/2023 6:00	1/3/2023 7:00	1498.1
1/3/2023 7:00	1/3/2023 8:00	1515.5
1/3/2023 8:00	1/3/2023 9:00	1526.3
1/3/2023 9:00	1/3/2023 10:00	1467.4
1/3/2023 10:00	1/3/2023 11:00	1442.9
1/3/2023 11:00	1/3/2023 12:00	1441.5
1/3/2023 12:00	1/3/2023 13:00	1452.0
1/3/2023 13:00	1/3/2023 14:00	1427.3
1/3/2023 14:00	1/3/2023 15:00	1389.9
1/3/2023 15:00	1/3/2023 16:00	1390.7
1/3/2023 16:00	1/3/2023 17:00	1426.3
1/3/2023 17:00	1/3/2023 18:00	1447.8
1/3/2023 18:00	1/3/2023 19:00	1392.4
1/3/2023 19:00	1/3/2023 20:00	1333.2
1/3/2023 20:00	1/3/2023 21:00	1298.0
1/3/2023 21:00	1/3/2023 22:00	1234.7
1/3/2023 22:00	1/3/2023 23:00	1238.9
1/3/2023 23:00	1/4/2023 0:00	1218.0
1/4/2023 0:00	1/4/2023 1:00	1175.6
1/4/2023 1:00	1/4/2023 2:00	1157.9
1/4/2023 2:00	1/4/2023 3:00	1165.9
1/4/2023 3:00	1/4/2023 4:00	1169.3

Start Time	End Time	ANL_MW
1/4/2023 4:00	1/4/2023 5:00	1196.3
1/4/2023 5:00	1/4/2023 6:00	1243.4
1/4/2023 6:00	1/4/2023 7:00	1335.6
1/4/2023 7:00	1/4/2023 8:00	1470.9
1/4/2023 8:00	1/4/2023 9:00	1430.1
1/4/2023 9:00	1/4/2023 10:00	1412.5
1/4/2023 10:00	1/4/2023 11:00	1413.6
1/4/2023 11:00	1/4/2023 12:00	1418.7
1/4/2023 12:00	1/4/2023 13:00	1378.9
1/4/2023 13:00	1/4/2023 14:00	1343.0
1/4/2023 14:00	1/4/2023 15:00	1307.3
1/4/2023 15:00	1/4/2023 16:00	1295.5
1/4/2023 16:00	1/4/2023 17:00	1342.6
1/4/2023 17:00	1/4/2023 18:00	1409.9
1/4/2023 18:00	1/4/2023 19:00	1374.6
1/4/2023 19:00	1/4/2023 20:00	1347.0
1/4/2023 20:00	1/4/2023 21:00	1340.8
1/4/2023 21:00	1/4/2023 22:00	1312.8
1/4/2023 22:00	1/4/2023 23:00	1266.9
1/4/2023 23:00	1/5/2023 0:00	1258.0
1/5/2023 0:00	1/5/2023 1:00	1233.5
1/5/2023 1:00	1/5/2023 2:00	1208.7
1/5/2023 2:00	1/5/2023 3:00	1185.9
1/5/2023 3:00	1/5/2023 4:00	1165.2
1/5/2023 4:00	1/5/2023 5:00	1213.0
1/5/2023 5:00	1/5/2023 6:00	1226.0
1/5/2023 6:00	1/5/2023 7:00	1390.5
1/5/2023 7:00	1/5/2023 8:00	1497.6
1/5/2023 8:00	1/5/2023 9:00	1541.5
1/5/2023 9:00	1/5/2023 10:00	1549.1
1/5/2023 10:00	1/5/2023 11:00	1565.3
1/5/2023 11:00	1/5/2023 12:00	1575.9
1/5/2023 12:00	1/5/2023 13:00	1599.2
1/5/2023 13:00	1/5/2023 14:00	1568.2
1/5/2023 14:00	1/5/2023 15:00	1554.7
1/5/2023 15:00	1/5/2023 16:00	1584.9
1/5/2023 16:00	1/5/2023 17:00	1655.6
1/5/2023 17:00	1/5/2023 18:00	1699.3
1/5/2023 18:00	1/5/2023 19:00	1641.6
1/5/2023 19:00	1/5/2023 20:00	1608.4
1/5/2023 20:00	1/5/2023 21:00	1544.9
1/5/2023 21:00	1/5/2023 22:00	1467.6
1/5/2023 22:00	1/5/2023 23:00	1434.3
1/5/2023 23:00	1/6/2023 0:00	1457.0
1/6/2023 0:00	1/6/2023 1:00	1455.8
1/6/2023 1:00	1/6/2023 2:00	1428.5
1/6/2023 2:00	1/6/2023 3:00	1395.9
1/6/2023 3:00	1/6/2023 4:00	1374.6
1/6/2023 4:00	1/6/2023 5:00	1386.5
1/6/2023 5:00	1/6/2023 6:00	1443.4
1/6/2023 6:00	1/6/2023 7:00	1516.0
1/6/2023 7:00	1/6/2023 8:00	1594.7
1/6/2023 8:00	1/6/2023 9:00	1612.6
1/6/2023 9:00	1/6/2023 10:00	1598.1
1/6/2023 10:00	1/6/2023 11:00	1598.1
1/6/2023 11:00	1/6/2023 12:00	1605.6
1/6/2023 12:00	1/6/2023 13:00	1608.5
1/6/2023 13:00	1/6/2023 14:00	1584.0
1/6/2023 14:00	1/6/2023 15:00	1559.3
1/6/2023 15:00	1/6/2023 16:00	1581.6
1/6/2023 16:00	1/6/2023 17:00	1633.4
1/6/2023 17:00	1/6/2023 18:00	1682.4
1/6/2023 18:00	1/6/2023 19:00	1623.5
1/6/2023 19:00	1/6/2023 20:00	1582.7
1/6/2023 20:00	1/6/2023 21:00	1534.6
1/6/2023 21:00	1/6/2023 22:00	1472.5
1/6/2023 22:00	1/6/2023 23:00	1455.5
1/6/2023 23:00	1/7/2023 0:00	1450.1
1/7/2023 0:00	1/7/2023 1:00	1463.8
1/7/2023 1:00	1/7/2023 2:00	1457.9

Start Time	End Time	ANL_MW
1/7/2023 2:00	1/7/2023 3:00	1436.2
1/7/2023 3:00	1/7/2023 4:00	1426.8
1/7/2023 4:00	1/7/2023 5:00	1425.0
1/7/2023 5:00	1/7/2023 6:00	1370.3
1/7/2023 6:00	1/7/2023 7:00	1411.0
1/7/2023 7:00	1/7/2023 8:00	1486.9
1/7/2023 8:00	1/7/2023 9:00	1558.2
1/7/2023 9:00	1/7/2023 10:00	1602.1
1/7/2023 10:00	1/7/2023 11:00	1562.8
1/7/2023 11:00	1/7/2023 12:00	1537.0
1/7/2023 12:00	1/7/2023 13:00	1538.9
1/7/2023 13:00	1/7/2023 14:00	1489.5
1/7/2023 14:00	1/7/2023 15:00	1472.4
1/7/2023 15:00	1/7/2023 16:00	1487.0
1/7/2023 16:00	1/7/2023 17:00	1555.5
1/7/2023 17:00	1/7/2023 18:00	1620.9
1/7/2023 18:00	1/7/2023 19:00	1572.0
1/7/2023 19:00	1/7/2023 20:00	1520.6
1/7/2023 20:00	1/7/2023 21:00	1443.1
1/7/2023 21:00	1/7/2023 22:00	1411.0
1/7/2023 22:00	1/7/2023 23:00	1358.2
1/7/2023 23:00	1/8/2023 0:00	1346.4
1/8/2023 0:00	1/8/2023 1:00	1264.6
1/8/2023 1:00	1/8/2023 2:00	1210.3
1/8/2023 2:00	1/8/2023 3:00	1119.7
1/8/2023 3:00	1/8/2023 4:00	1082.5
1/8/2023 4:00	1/8/2023 5:00	1070.6
1/8/2023 5:00	1/8/2023 6:00	1115.0
1/8/2023 6:00	1/8/2023 7:00	1192.0
1/8/2023 7:00	1/8/2023 8:00	1259.7
1/8/2023 8:00	1/8/2023 9:00	1374.5
1/8/2023 9:00	1/8/2023 10:00	1468.4
1/8/2023 10:00	1/8/2023 11:00	1510.5
1/8/2023 11:00	1/8/2023 12:00	1578.6
1/8/2023 12:00	1/8/2023 13:00	1600.1
1/8/2023 13:00	1/8/2023 14:00	1552.7
1/8/2023 14:00	1/8/2023 15:00	1473.6
1/8/2023 15:00	1/8/2023 16:00	1517.8
1/8/2023 16:00	1/8/2023 17:00	1619.2
1/8/2023 17:00	1/8/2023 18:00	1763.1
1/8/2023 18:00	1/8/2023 19:00	1759.3
1/8/2023 19:00	1/8/2023 20:00	1700.0
1/8/2023 20:00	1/8/2023 21:00	1636.1
1/8/2023 21:00	1/8/2023 22:00	1526.1
1/8/2023 22:00	1/8/2023 23:00	1411.9
1/8/2023 23:00	1/9/2023 0:00	1327.0
1/9/2023 0:00	1/9/2023 1:00	1250.1
1/9/2023 1:00	1/9/2023 2:00	1187.1
1/9/2023 2:00	1/9/2023 3:00	1154.9
1/9/2023 3:00	1/9/2023 4:00	1139.0
1/9/2023 4:00	1/9/2023 5:00	1147.5
1/9/2023 5:00	1/9/2023 6:00	1198.9
1/9/2023 6:00	1/9/2023 7:00	1353.7
1/9/2023 7:00	1/9/2023 8:00	1484.7
1/9/2023 8:00	1/9/2023 9:00	1560.7
1/9/2023 9:00	1/9/2023 10:00	1605.8
1/9/2023 10:00	1/9/2023 11:00	1578.4
1/9/2023 11:00	1/9/2023 12:00	1527.9
1/9/2023 12:00	1/9/2023 13:00	1543.6
1/9/2023 13:00	1/9/2023 14:00	1533.7
1/9/2023 14:00	1/9/2023 15:00	1518.5
1/9/2023 15:00	1/9/2023 16:00	1538.6
1/9/2023 16:00	1/9/2023 17:00	1589.0
1/9/2023 17:00	1/9/2023 18:00	1661.1
1/9/2023 18:00	1/9/2023 19:00	1628.6
1/9/2023 19:00	1/9/2023 20:00	1573.9
1/9/2023 20:00	1/9/2023 21:00	1527.5
1/9/2023 21:00	1/9/2023 22:00	1461.7
1/9/2023 22:00	1/9/2023 23:00	1371.7
1/9/2023 23:00	1/10/2023 0:00	1309.5

Start Time	End Time	ANL_MW
1/10/2023 0:00	1/10/2023 1:00	1260.6
1/10/2023 1:00	1/10/2023 2:00	1214.4
1/10/2023 2:00	1/10/2023 3:00	1223.5
1/10/2023 3:00	1/10/2023 4:00	1231.0
1/10/2023 4:00	1/10/2023 5:00	1221.5
1/10/2023 5:00	1/10/2023 6:00	1255.2
1/10/2023 6:00	1/10/2023 7:00	1384.1
1/10/2023 7:00	1/10/2023 8:00	1506.1
1/10/2023 8:00	1/10/2023 9:00	1491.5
1/10/2023 9:00	1/10/2023 10:00	1490.3
1/10/2023 10:00	1/10/2023 11:00	1424.6
1/10/2023 11:00	1/10/2023 12:00	1355.7
1/10/2023 12:00	1/10/2023 13:00	1340.7
1/10/2023 13:00	1/10/2023 14:00	1289.9
1/10/2023 14:00	1/10/2023 15:00	1280.7
1/10/2023 15:00	1/10/2023 16:00	1295.9
1/10/2023 16:00	1/10/2023 17:00	1388.4
1/10/2023 17:00	1/10/2023 18:00	1492.0
1/10/2023 18:00	1/10/2023 19:00	1497.1
1/10/2023 19:00	1/10/2023 20:00	1510.6
1/10/2023 20:00	1/10/2023 21:00	1478.6
1/10/2023 21:00	1/10/2023 22:00	1423.5
1/10/2023 22:00	1/10/2023 23:00	1352.5
1/10/2023 23:00	1/11/2023 0:00	1339.3
1/11/2023 0:00	1/11/2023 1:00	1333.3
1/11/2023 1:00	1/11/2023 2:00	1330.3
1/11/2023 2:00	1/11/2023 3:00	1310.0
1/11/2023 3:00	1/11/2023 4:00	1315.1
1/11/2023 4:00	1/11/2023 5:00	1344.2
1/11/2023 5:00	1/11/2023 6:00	1398.8
1/11/2023 6:00	1/11/2023 7:00	1536.2
1/11/2023 7:00	1/11/2023 8:00	1655.3
1/11/2023 8:00	1/11/2023 9:00	1697.9
1/11/2023 9:00	1/11/2023 10:00	1687.2
1/11/2023 10:00	1/11/2023 11:00	1642.1
1/11/2023 11:00	1/11/2023 12:00	1587.6
1/11/2023 12:00	1/11/2023 13:00	1540.4
1/11/2023 13:00	1/11/2023 14:00	1510.9
1/11/2023 14:00	1/11/2023 15:00	1498.8
1/11/2023 15:00	1/11/2023 16:00	1518.7
1/11/2023 16:00	1/11/2023 17:00	1623.1
1/11/2023 17:00	1/11/2023 18:00	1746.2
1/11/2023 18:00	1/11/2023 19:00	1738.3
1/11/2023 19:00	1/11/2023 20:00	1711.9
1/11/2023 20:00	1/11/2023 21:00	1690.4
1/11/2023 21:00	1/11/2023 22:00	1622.4
1/11/2023 22:00	1/11/2023 23:00	1536.6
1/11/2023 23:00	1/12/2023 0:00	1520.1
1/12/2023 0:00	1/12/2023 1:00	1516.1
1/12/2023 1:00	1/12/2023 2:00	1516.1
1/12/2023 2:00	1/12/2023 3:00	1502.6
1/12/2023 3:00	1/12/2023 4:00	1521.0
1/12/2023 4:00	1/12/2023 5:00	1545.7
1/12/2023 5:00	1/12/2023 6:00	1616.7
1/12/2023 6:00	1/12/2023 7:00	1754.7
1/12/2023 7:00	1/12/2023 8:00	1865.5
1/12/2023 8:00	1/12/2023 9:00	1882.9
1/12/2023 9:00	1/12/2023 10:00	1808.6
1/12/2023 10:00	1/12/2023 11:00	1734.1
1/12/2023 11:00	1/12/2023 12:00	1693.2
1/12/2023 12:00	1/12/2023 13:00	1670.7
1/12/2023 13:00	1/12/2023 14:00	1606.8
1/12/2023 14:00	1/12/2023 15:00	1561.1
1/12/2023 15:00	1/12/2023 16:00	1572.8
1/12/2023 16:00	1/12/2023 17:00	1663.9
1/12/2023 17:00	1/12/2023 18:00	1777.1
1/12/2023 18:00	1/12/2023 19:00	1766.2
1/12/2023 19:00	1/12/2023 20:00	1733.0
1/12/2023 20:00	1/12/2023 21:00	1657.4
1/12/2023 21:00	1/12/2023 22:00	1522.5

Start Time	End Time	ANL_MW
1/12/2023 22:00	1/12/2023 23:00	1428.7
1/12/2023 23:00	1/13/2023 0:00	1351.9
1/13/2023 0:00	1/13/2023 1:00	1279.2
1/13/2023 1:00	1/13/2023 2:00	1218.7
1/13/2023 2:00	1/13/2023 3:00	1195.1
1/13/2023 3:00	1/13/2023 4:00	1179.4
1/13/2023 4:00	1/13/2023 5:00	1179.2
1/13/2023 5:00	1/13/2023 6:00	1185.9
1/13/2023 6:00	1/13/2023 7:00	1240.2
1/13/2023 7:00	1/13/2023 8:00	1290.3
1/13/2023 8:00	1/13/2023 9:00	1300.1
1/13/2023 9:00	1/13/2023 10:00	1287.8
1/13/2023 10:00	1/13/2023 11:00	1320.0
1/13/2023 11:00	1/13/2023 12:00	1315.3
1/13/2023 12:00	1/13/2023 13:00	1306.5
1/13/2023 13:00	1/13/2023 14:00	1240.1
1/13/2023 14:00	1/13/2023 15:00	1170.9
1/13/2023 15:00	1/13/2023 16:00	1140.2
1/13/2023 16:00	1/13/2023 17:00	1149.2
1/13/2023 17:00	1/13/2023 18:00	1191.5
1/13/2023 18:00	1/13/2023 19:00	1148.8
1/13/2023 19:00	1/13/2023 20:00	1100.2
1/13/2023 20:00	1/13/2023 21:00	1070.7
1/13/2023 21:00	1/13/2023 22:00	987.1
1/13/2023 22:00	1/13/2023 23:00	925.1
1/13/2023 23:00	1/14/2023 0:00	900.3
1/14/2023 0:00	1/14/2023 1:00	869.6
1/14/2023 1:00	1/14/2023 2:00	873.9
1/14/2023 2:00	1/14/2023 3:00	897.4
1/14/2023 3:00	1/14/2023 4:00	959.0
1/14/2023 4:00	1/14/2023 5:00	962.0
1/14/2023 5:00	1/14/2023 6:00	1038.4
1/14/2023 6:00	1/14/2023 7:00	1080.5
1/14/2023 7:00	1/14/2023 8:00	1066.6
1/14/2023 8:00	1/14/2023 9:00	1088.4
1/14/2023 9:00	1/14/2023 10:00	1125.9
1/14/2023 10:00	1/14/2023 11:00	1204.0
1/14/2023 11:00	1/14/2023 12:00	1256.0
1/14/2023 12:00	1/14/2023 13:00	1265.1
1/14/2023 13:00	1/14/2023 14:00	1257.8
1/14/2023 14:00	1/14/2023 15:00	1256.9
1/14/2023 15:00	1/14/2023 16:00	1263.2
1/14/2023 16:00	1/14/2023 17:00	1308.1
1/14/2023 17:00	1/14/2023 18:00	1373.3
1/14/2023 18:00	1/14/2023 19:00	1352.8
1/14/2023 19:00	1/14/2023 20:00	1331.8
1/14/2023 20:00	1/14/2023 21:00	1295.9
1/14/2023 21:00	1/14/2023 22:00	1244.0
1/14/2023 22:00	1/14/2023 23:00	1205.5
1/14/2023 23:00	1/15/2023 0:00	1185.3
1/15/2023 0:00	1/15/2023 1:00	1154.1
1/15/2023 1:00	1/15/2023 2:00	1129.5
1/15/2023 2:00	1/15/2023 3:00	1120.3
1/15/2023 3:00	1/15/2023 4:00	1137.1
1/15/2023 4:00	1/15/2023 5:00	1141.0
1/15/2023 5:00	1/15/2023 6:00	1165.8
1/15/2023 6:00	1/15/2023 7:00	1203.4
1/15/2023 7:00	1/15/2023 8:00	1264.9
1/15/2023 8:00	1/15/2023 9:00	1347.0
1/15/2023 9:00	1/15/2023 10:00	1427.6
1/15/2023 10:00	1/15/2023 11:00	1496.9
1/15/2023 11:00	1/15/2023 12:00	1540.0
1/15/2023 12:00	1/15/2023 13:00	1554.9
1/15/2023 13:00	1/15/2023 14:00	1546.2
1/15/2023 14:00	1/15/2023 15:00	1525.5
1/15/2023 15:00	1/15/2023 16:00	1515.5
1/15/2023 16:00	1/15/2023 17:00	1549.2
1/15/2023 17:00	1/15/2023 18:00	1593.3
1/15/2023 18:00	1/15/2023 19:00	1534.3
1/15/2023 19:00	1/15/2023 20:00	1474.7

Start Time	End Time	ANL_MW
1/15/2023 20:00	1/15/2023 21:00	1402.3
1/15/2023 21:00	1/15/2023 22:00	1307.5
1/15/2023 22:00	1/15/2023 23:00	1213.5
1/15/2023 23:00	1/16/2023 0:00	1120.3
1/16/2023 0:00	1/16/2023 1:00	1039.0
1/16/2023 1:00	1/16/2023 2:00	1003.4
1/16/2023 2:00	1/16/2023 3:00	995.8
1/16/2023 3:00	1/16/2023 4:00	997.8
1/16/2023 4:00	1/16/2023 5:00	974.7
1/16/2023 5:00	1/16/2023 6:00	926.4
1/16/2023 6:00	1/16/2023 7:00	977.4
1/16/2023 7:00	1/16/2023 8:00	1176.4
1/16/2023 8:00	1/16/2023 9:00	1211.8
1/16/2023 9:00	1/16/2023 10:00	1223.1
1/16/2023 10:00	1/16/2023 11:00	1235.6
1/16/2023 11:00	1/16/2023 12:00	1250.0
1/16/2023 12:00	1/16/2023 13:00	1277.0
1/16/2023 13:00	1/16/2023 14:00	1239.3
1/16/2023 14:00	1/16/2023 15:00	1222.1
1/16/2023 15:00	1/16/2023 16:00	1249.5
1/16/2023 16:00	1/16/2023 17:00	1303.4
1/16/2023 17:00	1/16/2023 18:00	1364.2
1/16/2023 18:00	1/16/2023 19:00	1346.9
1/16/2023 19:00	1/16/2023 20:00	1314.1
1/16/2023 20:00	1/16/2023 21:00	1258.2
1/16/2023 21:00	1/16/2023 22:00	1177.5
1/16/2023 22:00	1/16/2023 23:00	1076.1
1/16/2023 23:00	1/17/2023 0:00	1056.8
1/17/2023 0:00	1/17/2023 1:00	1022.0
1/17/2023 1:00	1/17/2023 2:00	1002.8
1/17/2023 2:00	1/17/2023 3:00	990.7
1/17/2023 3:00	1/17/2023 4:00	992.4
1/17/2023 4:00	1/17/2023 5:00	1030.9
1/17/2023 5:00	1/17/2023 6:00	1059.2
1/17/2023 6:00	1/17/2023 7:00	1170.0
1/17/2023 7:00	1/17/2023 8:00	1285.2
1/17/2023 8:00	1/17/2023 9:00	1310.5
1/17/2023 9:00	1/17/2023 10:00	1326.7
1/17/2023 10:00	1/17/2023 11:00	1324.7
1/17/2023 11:00	1/17/2023 12:00	1310.4
1/17/2023 12:00	1/17/2023 13:00	1310.9
1/17/2023 13:00	1/17/2023 14:00	1299.8
1/17/2023 14:00	1/17/2023 15:00	1296.6
1/17/2023 15:00	1/17/2023 16:00	1321.8
1/17/2023 16:00	1/17/2023 17:00	1380.3
1/17/2023 17:00	1/17/2023 18:00	1463.1
1/17/2023 18:00	1/17/2023 19:00	1419.9
1/17/2023 19:00	1/17/2023 20:00	1405.2
1/17/2023 20:00	1/17/2023 21:00	1361.6
1/17/2023 21:00	1/17/2023 22:00	1352.3
1/17/2023 22:00	1/17/2023 23:00	1320.2
1/17/2023 23:00	1/18/2023 0:00	1258.8
1/18/2023 0:00	1/18/2023 1:00	1202.9
1/18/2023 1:00	1/18/2023 2:00	1167.9
1/18/2023 2:00	1/18/2023 3:00	1141.4
1/18/2023 3:00	1/18/2023 4:00	1135.1
1/18/2023 4:00	1/18/2023 5:00	1153.6
1/18/2023 5:00	1/18/2023 6:00	1200.9
1/18/2023 6:00	1/18/2023 7:00	1319.9
1/18/2023 7:00	1/18/2023 8:00	1454.8
1/18/2023 8:00	1/18/2023 9:00	1386.9
1/18/2023 9:00	1/18/2023 10:00	1358.7
1/18/2023 10:00	1/18/2023 11:00	1314.1
1/18/2023 11:00	1/18/2023 12:00	1299.6
1/18/2023 12:00	1/18/2023 13:00	1296.0
1/18/2023 13:00	1/18/2023 14:00	1266.6
1/18/2023 14:00	1/18/2023 15:00	1255.3
1/18/2023 15:00	1/18/2023 16:00	1274.3
1/18/2023 16:00	1/18/2023 17:00	1339.8
1/18/2023 17:00	1/18/2023 18:00	1416.4

Start Time	End Time	ANL_MW
1/18/2023 18:00	1/18/2023 19:00	1399.4
1/18/2023 19:00	1/18/2023 20:00	1385.0
1/18/2023 20:00	1/18/2023 21:00	1371.6
1/18/2023 21:00	1/18/2023 22:00	1346.5
1/18/2023 22:00	1/18/2023 23:00	1306.6
1/18/2023 23:00	1/19/2023 0:00	1269.8
1/19/2023 0:00	1/19/2023 1:00	1224.5
1/19/2023 1:00	1/19/2023 2:00	1168.6
1/19/2023 2:00	1/19/2023 3:00	1115.6
1/19/2023 3:00	1/19/2023 4:00	1103.2
1/19/2023 4:00	1/19/2023 5:00	1106.3
1/19/2023 5:00	1/19/2023 6:00	1157.7
1/19/2023 6:00	1/19/2023 7:00	1211.6
1/19/2023 7:00	1/19/2023 8:00	1299.6
1/19/2023 8:00	1/19/2023 9:00	1314.5
1/19/2023 9:00	1/19/2023 10:00	1292.0
1/19/2023 10:00	1/19/2023 11:00	1286.9
1/19/2023 11:00	1/19/2023 12:00	1283.9
1/19/2023 12:00	1/19/2023 13:00	1302.8
1/19/2023 13:00	1/19/2023 14:00	1274.6
1/19/2023 14:00	1/19/2023 15:00	1246.8
1/19/2023 15:00	1/19/2023 16:00	1255.6
1/19/2023 16:00	1/19/2023 17:00	1334.8
1/19/2023 17:00	1/19/2023 18:00	1417.1
1/19/2023 18:00	1/19/2023 19:00	1421.3
1/19/2023 19:00	1/19/2023 20:00	1424.7
1/19/2023 20:00	1/19/2023 21:00	1429.9
1/19/2023 21:00	1/19/2023 22:00	1380.9
1/19/2023 22:00	1/19/2023 23:00	1307.5
1/19/2023 23:00	1/20/2023 0:00	1316.2
1/20/2023 0:00	1/20/2023 1:00	1294.0
1/20/2023 1:00	1/20/2023 2:00	1247.5
1/20/2023 2:00	1/20/2023 3:00	1206.8
1/20/2023 3:00	1/20/2023 4:00	1203.5
1/20/2023 4:00	1/20/2023 5:00	1210.8
1/20/2023 5:00	1/20/2023 6:00	1261.6
1/20/2023 6:00	1/20/2023 7:00	1361.3
1/20/2023 7:00	1/20/2023 8:00	1428.4
1/20/2023 8:00	1/20/2023 9:00	1474.6
1/20/2023 9:00	1/20/2023 10:00	1467.3
1/20/2023 10:00	1/20/2023 11:00	1491.1
1/20/2023 11:00	1/20/2023 12:00	1533.8
1/20/2023 12:00	1/20/2023 13:00	1532.8
1/20/2023 13:00	1/20/2023 14:00	1531.9
1/20/2023 14:00	1/20/2023 15:00	1508.9
1/20/2023 15:00	1/20/2023 16:00	1472.9
1/20/2023 16:00	1/20/2023 17:00	1476.0
1/20/2023 17:00	1/20/2023 18:00	1572.4
1/20/2023 18:00	1/20/2023 19:00	1536.1
1/20/2023 19:00	1/20/2023 20:00	1489.8
1/20/2023 20:00	1/20/2023 21:00	1426.0
1/20/2023 21:00	1/20/2023 22:00	1353.0
1/20/2023 22:00	1/20/2023 23:00	1280.7
1/20/2023 23:00	1/21/2023 0:00	1257.9
1/21/2023 0:00	1/21/2023 1:00	1215.4
1/21/2023 1:00	1/21/2023 2:00	1164.2
1/21/2023 2:00	1/21/2023 3:00	1110.7
1/21/2023 3:00	1/21/2023 4:00	1081.2
1/21/2023 4:00	1/21/2023 5:00	1085.9
1/21/2023 5:00	1/21/2023 6:00	1102.2
1/21/2023 6:00	1/21/2023 7:00	1137.8
1/21/2023 7:00	1/21/2023 8:00	1158.4
1/21/2023 8:00	1/21/2023 9:00	1211.2
1/21/2023 9:00	1/21/2023 10:00	1261.8
1/21/2023 10:00	1/21/2023 11:00	1293.9
1/21/2023 11:00	1/21/2023 12:00	1336.7
1/21/2023 12:00	1/21/2023 13:00	1389.3
1/21/2023 13:00	1/21/2023 14:00	1373.5
1/21/2023 14:00	1/21/2023 15:00	1375.1
1/21/2023 15:00	1/21/2023 16:00	1427.4

Start Time	End Time	ANL_MW
1/21/2023 16:00	1/21/2023 17:00	1515.2
1/21/2023 17:00	1/21/2023 18:00	1566.3
1/21/2023 18:00	1/21/2023 19:00	1553.2
1/21/2023 19:00	1/21/2023 20:00	1507.8
1/21/2023 20:00	1/21/2023 21:00	1472.4
1/21/2023 21:00	1/21/2023 22:00	1426.3
1/21/2023 22:00	1/21/2023 23:00	1369.1
1/21/2023 23:00	1/22/2023 0:00	1316.5
1/22/2023 0:00	1/22/2023 1:00	1259.2
1/22/2023 1:00	1/22/2023 2:00	1231.1
1/22/2023 2:00	1/22/2023 3:00	1221.2
1/22/2023 3:00	1/22/2023 4:00	1246.9
1/22/2023 4:00	1/22/2023 5:00	1281.9
1/22/2023 5:00	1/22/2023 6:00	1337.8
1/22/2023 6:00	1/22/2023 7:00	1399.5
1/22/2023 7:00	1/22/2023 8:00	1467.0
1/22/2023 8:00	1/22/2023 9:00	1540.2
1/22/2023 9:00	1/22/2023 10:00	1572.8
1/22/2023 10:00	1/22/2023 11:00	1557.2
1/22/2023 11:00	1/22/2023 12:00	1522.8
1/22/2023 12:00	1/22/2023 13:00	1467.4
1/22/2023 13:00	1/22/2023 14:00	1416.4
1/22/2023 14:00	1/22/2023 15:00	1372.3
1/22/2023 15:00	1/22/2023 16:00	1392.5
1/22/2023 16:00	1/22/2023 17:00	1478.9
1/22/2023 17:00	1/22/2023 18:00	1547.7
1/22/2023 18:00	1/22/2023 19:00	1542.1
1/22/2023 19:00	1/22/2023 20:00	1503.7
1/22/2023 20:00	1/22/2023 21:00	1441.1
1/22/2023 21:00	1/22/2023 22:00	1344.1
1/22/2023 22:00	1/22/2023 23:00	1230.7
1/22/2023 23:00	1/23/2023 0:00	1148.2
1/23/2023 0:00	1/23/2023 1:00	1093.7
1/23/2023 1:00	1/23/2023 2:00	1129.9
1/23/2023 2:00	1/23/2023 3:00	1109.3
1/23/2023 3:00	1/23/2023 4:00	1106.3
1/23/2023 4:00	1/23/2023 5:00	1144.7
1/23/2023 5:00	1/23/2023 6:00	1199.2
1/23/2023 6:00	1/23/2023 7:00	1233.8
1/23/2023 7:00	1/23/2023 8:00	1280.3
1/23/2023 8:00	1/23/2023 9:00	1279.4
1/23/2023 9:00	1/23/2023 10:00	1287.4
1/23/2023 10:00	1/23/2023 11:00	1288.4
1/23/2023 11:00	1/23/2023 12:00	1327.9
1/23/2023 12:00	1/23/2023 13:00	1369.0
1/23/2023 13:00	1/23/2023 14:00	1328.5
1/23/2023 14:00	1/23/2023 15:00	1289.0
1/23/2023 15:00	1/23/2023 16:00	1281.8
1/23/2023 16:00	1/23/2023 17:00	1341.7
1/23/2023 17:00	1/23/2023 18:00	1419.4
1/23/2023 18:00	1/23/2023 19:00	1412.1
1/23/2023 19:00	1/23/2023 20:00	1395.7
1/23/2023 20:00	1/23/2023 21:00	1359.2
1/23/2023 21:00	1/23/2023 22:00	1289.5
1/23/2023 22:00	1/23/2023 23:00	1198.8
1/23/2023 23:00	1/24/2023 0:00	1157.7
1/24/2023 0:00	1/24/2023 1:00	1129.3
1/24/2023 1:00	1/24/2023 2:00	1094.5
1/24/2023 2:00	1/24/2023 3:00	1101.2
1/24/2023 3:00	1/24/2023 4:00	1131.8
1/24/2023 4:00	1/24/2023 5:00	1164.8
1/24/2023 5:00	1/24/2023 6:00	1218.6
1/24/2023 6:00	1/24/2023 7:00	1320.2
1/24/2023 7:00	1/24/2023 8:00	1390.9
1/24/2023 8:00	1/24/2023 9:00	1376.2
1/24/2023 9:00	1/24/2023 10:00	1346.6
1/24/2023 10:00	1/24/2023 11:00	1325.5
1/24/2023 11:00	1/24/2023 12:00	1317.9
1/24/2023 12:00	1/24/2023 13:00	1339.0
1/24/2023 13:00	1/24/2023 14:00	1332.1

Start Time	End Time	ANL_MW
1/24/2023 14:00	1/24/2023 15:00	1339.7
1/24/2023 15:00	1/24/2023 16:00	1354.9
1/24/2023 16:00	1/24/2023 17:00	1429.5
1/24/2023 17:00	1/24/2023 18:00	1506.2
1/24/2023 18:00	1/24/2023 19:00	1476.4
1/24/2023 19:00	1/24/2023 20:00	1421.7
1/24/2023 20:00	1/24/2023 21:00	1429.4
1/24/2023 21:00	1/24/2023 22:00	1361.6
1/24/2023 22:00	1/24/2023 23:00	1285.5
1/24/2023 23:00	1/25/2023 0:00	1257.1
1/25/2023 0:00	1/25/2023 1:00	1239.3
1/25/2023 1:00	1/25/2023 2:00	1207.6
1/25/2023 2:00	1/25/2023 3:00	1209.1
1/25/2023 3:00	1/25/2023 4:00	1215.1
1/25/2023 4:00	1/25/2023 5:00	1229.9
1/25/2023 5:00	1/25/2023 6:00	1229.9
1/25/2023 6:00	1/25/2023 7:00	1375.5
1/25/2023 7:00	1/25/2023 8:00	1523.1
1/25/2023 8:00	1/25/2023 9:00	1570.3
1/25/2023 9:00	1/25/2023 10:00	1544.3
1/25/2023 10:00	1/25/2023 11:00	1525.6
1/25/2023 11:00	1/25/2023 12:00	1509.2
1/25/2023 12:00	1/25/2023 13:00	1519.9
1/25/2023 13:00	1/25/2023 14:00	1498.7
1/25/2023 14:00	1/25/2023 15:00	1493.1
1/25/2023 15:00	1/25/2023 16:00	1551.5
1/25/2023 16:00	1/25/2023 17:00	1644.1
1/25/2023 17:00	1/25/2023 18:00	1760.3
1/25/2023 18:00	1/25/2023 19:00	1766.6
1/25/2023 19:00	1/25/2023 20:00	1732.7
1/25/2023 20:00	1/25/2023 21:00	1678.9
1/25/2023 21:00	1/25/2023 22:00	1567.3
1/25/2023 22:00	1/25/2023 23:00	1435.9
1/25/2023 23:00	1/26/2023 0:00	1367.9
1/26/2023 0:00	1/26/2023 1:00	1287.0
1/26/2023 1:00	1/26/2023 2:00	1205.2
1/26/2023 2:00	1/26/2023 3:00	1138.3
1/26/2023 3:00	1/26/2023 4:00	1070.5
1/26/2023 4:00	1/26/2023 5:00	1032.3
1/26/2023 5:00	1/26/2023 6:00	1042.2
1/26/2023 6:00	1/26/2023 7:00	1135.2
1/26/2023 7:00	1/26/2023 8:00	1225.5
1/26/2023 8:00	1/26/2023 9:00	1245.9
1/26/2023 9:00	1/26/2023 10:00	1233.9
1/26/2023 10:00	1/26/2023 11:00	1234.2
1/26/2023 11:00	1/26/2023 12:00	1297.7
1/26/2023 12:00	1/26/2023 13:00	1327.2
1/26/2023 13:00	1/26/2023 14:00	1285.0
1/26/2023 14:00	1/26/2023 15:00	1218.9
1/26/2023 15:00	1/26/2023 16:00	1174.8
1/26/2023 16:00	1/26/2023 17:00	1146.7
1/26/2023 17:00	1/26/2023 18:00	1173.4
1/26/2023 18:00	1/26/2023 19:00	1160.8
1/26/2023 19:00	1/26/2023 20:00	1131.0
1/26/2023 20:00	1/26/2023 21:00	1104.8
1/26/2023 21:00	1/26/2023 22:00	1051.0
1/26/2023 22:00	1/26/2023 23:00	1001.2
1/26/2023 23:00	1/27/2023 0:00	978.9
1/27/2023 0:00	1/27/2023 1:00	978.0
1/27/2023 1:00	1/27/2023 2:00	969.7
1/27/2023 2:00	1/27/2023 3:00	982.3
1/27/2023 3:00	1/27/2023 4:00	1026.5
1/27/2023 4:00	1/27/2023 5:00	1054.3
1/27/2023 5:00	1/27/2023 6:00	1105.3
1/27/2023 6:00	1/27/2023 7:00	1209.7
1/27/2023 7:00	1/27/2023 8:00	1324.4
1/27/2023 8:00	1/27/2023 9:00	1365.7
1/27/2023 9:00	1/27/2023 10:00	1405.5
1/27/2023 10:00	1/27/2023 11:00	1410.4
1/27/2023 11:00	1/27/2023 12:00	1370.3

Start Time	End Time	ANL_MW
1/27/2023 12:00	1/27/2023 13:00	1328.4
1/27/2023 13:00	1/27/2023 14:00	1298.5
1/27/2023 14:00	1/27/2023 15:00	1295.8
1/27/2023 15:00	1/27/2023 16:00	1354.8
1/27/2023 16:00	1/27/2023 17:00	1445.8
1/27/2023 17:00	1/27/2023 18:00	1598.4
1/27/2023 18:00	1/27/2023 19:00	1620.2
1/27/2023 19:00	1/27/2023 20:00	1615.2
1/27/2023 20:00	1/27/2023 21:00	1597.1
1/27/2023 21:00	1/27/2023 22:00	1559.8
1/27/2023 22:00	1/27/2023 23:00	1517.2
1/27/2023 23:00	1/28/2023 0:00	1539.9
1/28/2023 0:00	1/28/2023 1:00	1549.2
1/28/2023 1:00	1/28/2023 2:00	1528.7
1/28/2023 2:00	1/28/2023 3:00	1505.6
1/28/2023 3:00	1/28/2023 4:00	1492.8
1/28/2023 4:00	1/28/2023 5:00	1486.6
1/28/2023 5:00	1/28/2023 6:00	1504.6
1/28/2023 6:00	1/28/2023 7:00	1539.7
1/28/2023 7:00	1/28/2023 8:00	1579.1
1/28/2023 8:00	1/28/2023 9:00	1589.8
1/28/2023 9:00	1/28/2023 10:00	1592.7
1/28/2023 10:00	1/28/2023 11:00	1536.1
1/28/2023 11:00	1/28/2023 12:00	1459.3
1/28/2023 12:00	1/28/2023 13:00	1410.3
1/28/2023 13:00	1/28/2023 14:00	1372.7
1/28/2023 14:00	1/28/2023 15:00	1388.7
1/28/2023 15:00	1/28/2023 16:00	1417.8
1/28/2023 16:00	1/28/2023 17:00	1443.7
1/28/2023 17:00	1/28/2023 18:00	1481.4
1/28/2023 18:00	1/28/2023 19:00	1400.8
1/28/2023 19:00	1/28/2023 20:00	1346.6
1/28/2023 20:00	1/28/2023 21:00	1283.9
1/28/2023 21:00	1/28/2023 22:00	1227.4
1/28/2023 22:00	1/28/2023 23:00	1207.8
1/28/2023 23:00	1/29/2023 0:00	1169.3
1/29/2023 0:00	1/29/2023 1:00	1123.0
1/29/2023 1:00	1/29/2023 2:00	1141.2
1/29/2023 2:00	1/29/2023 3:00	1147.0
1/29/2023 3:00	1/29/2023 4:00	1156.6
1/29/2023 4:00	1/29/2023 5:00	1198.7
1/29/2023 5:00	1/29/2023 6:00	1233.8
1/29/2023 6:00	1/29/2023 7:00	1275.8
1/29/2023 7:00	1/29/2023 8:00	1384.9
1/29/2023 8:00	1/29/2023 9:00	1489.0
1/29/2023 9:00	1/29/2023 10:00	1518.3
1/29/2023 10:00	1/29/2023 11:00	1502.8
1/29/2023 11:00	1/29/2023 12:00	1489.3
1/29/2023 12:00	1/29/2023 13:00	1486.8
1/29/2023 13:00	1/29/2023 14:00	1451.2
1/29/2023 14:00	1/29/2023 15:00	1465.1
1/29/2023 15:00	1/29/2023 16:00	1508.2
1/29/2023 16:00	1/29/2023 17:00	1583.5
1/29/2023 17:00	1/29/2023 18:00	1617.1
1/29/2023 18:00	1/29/2023 19:00	1532.1
1/29/2023 19:00	1/29/2023 20:00	1420.7
1/29/2023 20:00	1/29/2023 21:00	1280.7
1/29/2023 21:00	1/29/2023 22:00	1211.2
1/29/2023 22:00	1/29/2023 23:00	1104.5
1/29/2023 23:00	1/30/2023 0:00	1034.4
1/30/2023 0:00	1/30/2023 1:00	1019.3
1/30/2023 1:00	1/30/2023 2:00	990.1
1/30/2023 2:00	1/30/2023 3:00	983.9
1/30/2023 3:00	1/30/2023 4:00	983.7
1/30/2023 4:00	1/30/2023 5:00	1004.4
1/30/2023 5:00	1/30/2023 6:00	1059.1
1/30/2023 6:00	1/30/2023 7:00	1219.0
1/30/2023 7:00	1/30/2023 8:00	1325.1
1/30/2023 8:00	1/30/2023 9:00	1386.3
1/30/2023 9:00	1/30/2023 10:00	1391.9

Start Time	End Time	ANL_MW
1/30/2023 10:00	1/30/2023 11:00	1375.6
1/30/2023 11:00	1/30/2023 12:00	1405.8
1/30/2023 12:00	1/30/2023 13:00	1416.6
1/30/2023 13:00	1/30/2023 14:00	1392.0
1/30/2023 14:00	1/30/2023 15:00	1375.8
1/30/2023 15:00	1/30/2023 16:00	1417.8
1/30/2023 16:00	1/30/2023 17:00	1519.0
1/30/2023 17:00	1/30/2023 18:00	1625.0
1/30/2023 18:00	1/30/2023 19:00	1646.3
1/30/2023 19:00	1/30/2023 20:00	1637.3
1/30/2023 20:00	1/30/2023 21:00	1604.0
1/30/2023 21:00	1/30/2023 22:00	1543.6
1/30/2023 22:00	1/30/2023 23:00	1465.7
1/30/2023 23:00	1/31/2023 0:00	1450.2
1/31/2023 0:00	1/31/2023 1:00	1439.4
1/31/2023 1:00	1/31/2023 2:00	1417.7
1/31/2023 2:00	1/31/2023 3:00	1387.4
1/31/2023 3:00	1/31/2023 4:00	1392.8
1/31/2023 4:00	1/31/2023 5:00	1377.1
1/31/2023 5:00	1/31/2023 6:00	1417.5
1/31/2023 6:00	1/31/2023 7:00	1559.9
1/31/2023 7:00	1/31/2023 8:00	1653.9
1/31/2023 8:00	1/31/2023 9:00	1653.2
1/31/2023 9:00	1/31/2023 10:00	1636.7
1/31/2023 10:00	1/31/2023 11:00	1652.7
1/31/2023 11:00	1/31/2023 12:00	1659.6
1/31/2023 12:00	1/31/2023 13:00	1672.0
1/31/2023 13:00	1/31/2023 14:00	1636.9
1/31/2023 14:00	1/31/2023 15:00	1582.5
1/31/2023 15:00	1/31/2023 16:00	1545.3
1/31/2023 16:00	1/31/2023 17:00	1568.9
1/31/2023 17:00	1/31/2023 18:00	1623.8
1/31/2023 18:00	1/31/2023 19:00	1614.4
1/31/2023 19:00	1/31/2023 20:00	1581.9
1/31/2023 20:00	1/31/2023 21:00	1503.2
1/31/2023 21:00	1/31/2023 22:00	1446.6
1/31/2023 22:00	1/31/2023 23:00	1380.2
1/31/2023 23:00	2/1/2023 0:00	1370.0
2/1/2023 0:00	2/1/2023 1:00	1367.8
2/1/2023 1:00	2/1/2023 2:00	1355.3
2/1/2023 2:00	2/1/2023 3:00	1395.0
2/1/2023 3:00	2/1/2023 4:00	1399.9
2/1/2023 4:00	2/1/2023 5:00	1434.8
2/1/2023 5:00	2/1/2023 6:00	1523.4
2/1/2023 6:00	2/1/2023 7:00	1674.1
2/1/2023 7:00	2/1/2023 8:00	1802.1
2/1/2023 8:00	2/1/2023 9:00	1807.6
2/1/2023 9:00	2/1/2023 10:00	1768.7
2/1/2023 10:00	2/1/2023 11:00	1737.7
2/1/2023 11:00	2/1/2023 12:00	1702.9
2/1/2023 12:00	2/1/2023 13:00	1683.9
2/1/2023 13:00	2/1/2023 14:00	1632.8
2/1/2023 14:00	2/1/2023 15:00	1591.4
2/1/2023 15:00	2/1/2023 16:00	1615.3
2/1/2023 16:00	2/1/2023 17:00	1686.8
2/1/2023 17:00	2/1/2023 18:00	1797.4
2/1/2023 18:00	2/1/2023 19:00	1841.6
2/1/2023 19:00	2/1/2023 20:00	1850.5
2/1/2023 20:00	2/1/2023 21:00	1835.6
2/1/2023 21:00	2/1/2023 22:00	1795.8
2/1/2023 22:00	2/1/2023 23:00	1741.6
2/1/2023 23:00	2/2/2023 0:00	1747.3
2/2/2023 0:00	2/2/2023 1:00	1731.0
2/2/2023 1:00	2/2/2023 2:00	1699.9
2/2/2023 2:00	2/2/2023 3:00	1690.2
2/2/2023 3:00	2/2/2023 4:00	1684.9
2/2/2023 4:00	2/2/2023 5:00	1685.9
2/2/2023 5:00	2/2/2023 6:00	1738.6
2/2/2023 6:00	2/2/2023 7:00	1858.5
2/2/2023 7:00	2/2/2023 8:00	1926.9

Start Time	End Time	ANL_MW
2/2/2023 8:00	2/2/2023 9:00	1897.7
2/2/2023 9:00	2/2/2023 10:00	1826.9
2/2/2023 10:00	2/2/2023 11:00	1794.6
2/2/2023 11:00	2/2/2023 12:00	1716.3
2/2/2023 12:00	2/2/2023 13:00	1633.0
2/2/2023 13:00	2/2/2023 14:00	1570.4
2/2/2023 14:00	2/2/2023 15:00	1551.2
2/2/2023 15:00	2/2/2023 16:00	1583.7
2/2/2023 16:00	2/2/2023 17:00	1649.3
2/2/2023 17:00	2/2/2023 18:00	1702.1
2/2/2023 18:00	2/2/2023 19:00	1649.8
2/2/2023 19:00	2/2/2023 20:00	1581.6
2/2/2023 20:00	2/2/2023 21:00	1453.0
2/2/2023 21:00	2/2/2023 22:00	1379.4
2/2/2023 22:00	2/2/2023 23:00	1314.4
2/2/2023 23:00	2/3/2023 0:00	1250.4
2/3/2023 0:00	2/3/2023 1:00	1174.2
2/3/2023 1:00	2/3/2023 2:00	1098.8
2/3/2023 2:00	2/3/2023 3:00	1032.0
2/3/2023 3:00	2/3/2023 4:00	1024.9
2/3/2023 4:00	2/3/2023 5:00	1039.5
2/3/2023 5:00	2/3/2023 6:00	1065.7
2/3/2023 6:00	2/3/2023 7:00	1171.4
2/3/2023 7:00	2/3/2023 8:00	1310.2
2/3/2023 8:00	2/3/2023 9:00	1379.0
2/3/2023 9:00	2/3/2023 10:00	1471.5
2/3/2023 10:00	2/3/2023 11:00	1482.0
2/3/2023 11:00	2/3/2023 12:00	1449.9
2/3/2023 12:00	2/3/2023 13:00	1372.1
2/3/2023 13:00	2/3/2023 14:00	1347.9
2/3/2023 14:00	2/3/2023 15:00	1344.7
2/3/2023 15:00	2/3/2023 16:00	1423.1
2/3/2023 16:00	2/3/2023 17:00	1571.2
2/3/2023 17:00	2/3/2023 18:00	1713.7
2/3/2023 18:00	2/3/2023 19:00	1774.1
2/3/2023 19:00	2/3/2023 20:00	1790.4
2/3/2023 20:00	2/3/2023 21:00	1754.8
2/3/2023 21:00	2/3/2023 22:00	1754.0
2/3/2023 22:00	2/3/2023 23:00	1740.5
2/3/2023 23:00	2/4/2023 0:00	1757.1
2/4/2023 0:00	2/4/2023 1:00	1778.9
2/4/2023 1:00	2/4/2023 2:00	1790.1
2/4/2023 2:00	2/4/2023 3:00	1804.3
2/4/2023 3:00	2/4/2023 4:00	1809.7
2/4/2023 4:00	2/4/2023 5:00	1827.2
2/4/2023 5:00	2/4/2023 6:00	1866.5
2/4/2023 6:00	2/4/2023 7:00	1919.3
2/4/2023 7:00	2/4/2023 8:00	1992.9
2/4/2023 8:00	2/4/2023 9:00	2064.8
2/4/2023 9:00	2/4/2023 10:00	2124.1
2/4/2023 10:00	2/4/2023 11:00	2155.7
2/4/2023 11:00	2/4/2023 12:00	2163.1
2/4/2023 12:00	2/4/2023 13:00	2146.9
2/4/2023 13:00	2/4/2023 14:00	2102.8
2/4/2023 14:00	2/4/2023 15:00	2037.5
2/4/2023 15:00	2/4/2023 16:00	2012.4
2/4/2023 16:00	2/4/2023 17:00	2038.4
2/4/2023 17:00	2/4/2023 18:00	2107.3
2/4/2023 18:00	2/4/2023 19:00	2110.7
2/4/2023 19:00	2/4/2023 20:00	2062.8
2/4/2023 20:00	2/4/2023 21:00	2014.0
2/4/2023 21:00	2/4/2023 22:00	1940.2
2/4/2023 22:00	2/4/2023 23:00	1853.9
2/4/2023 23:00	2/5/2023 0:00	1791.1
2/5/2023 0:00	2/5/2023 1:00	1757.6
2/5/2023 1:00	2/5/2023 2:00	1762.4
2/5/2023 2:00	2/5/2023 3:00	1759.0
2/5/2023 3:00	2/5/2023 4:00	1784.6
2/5/2023 4:00	2/5/2023 5:00	1768.3
2/5/2023 5:00	2/5/2023 6:00	1764.2

Start Time	End Time	ANL_MW
2/5/2023 6:00	2/5/2023 7:00	1795.2
2/5/2023 7:00	2/5/2023 8:00	1857.7
2/5/2023 8:00	2/5/2023 9:00	1910.2
2/5/2023 9:00	2/5/2023 10:00	1943.5
2/5/2023 10:00	2/5/2023 11:00	1869.3
2/5/2023 11:00	2/5/2023 12:00	1733.5
2/5/2023 12:00	2/5/2023 13:00	1683.7
2/5/2023 13:00	2/5/2023 14:00	1595.9
2/5/2023 14:00	2/5/2023 15:00	1551.1
2/5/2023 15:00	2/5/2023 16:00	1543.7
2/5/2023 16:00	2/5/2023 17:00	1564.8
2/5/2023 17:00	2/5/2023 18:00	1586.4
2/5/2023 18:00	2/5/2023 19:00	1549.9
2/5/2023 19:00	2/5/2023 20:00	1484.1
2/5/2023 20:00	2/5/2023 21:00	1434.4
2/5/2023 21:00	2/5/2023 22:00	1354.3
2/5/2023 22:00	2/5/2023 23:00	1313.1
2/5/2023 23:00	2/6/2023 0:00	1272.8
2/6/2023 0:00	2/6/2023 1:00	1251.6
2/6/2023 1:00	2/6/2023 2:00	1250.8
2/6/2023 2:00	2/6/2023 3:00	1260.9
2/6/2023 3:00	2/6/2023 4:00	1282.6
2/6/2023 4:00	2/6/2023 5:00	1336.7
2/6/2023 5:00	2/6/2023 6:00	1399.7
2/6/2023 6:00	2/6/2023 7:00	1541.1
2/6/2023 7:00	2/6/2023 8:00	1612.1
2/6/2023 8:00	2/6/2023 9:00	1588.4
2/6/2023 9:00	2/6/2023 10:00	1574.4
2/6/2023 10:00	2/6/2023 11:00	1559.4
2/6/2023 11:00	2/6/2023 12:00	1550.4
2/6/2023 12:00	2/6/2023 13:00	1528.6
2/6/2023 13:00	2/6/2023 14:00	1467.8
2/6/2023 14:00	2/6/2023 15:00	1463.6
2/6/2023 15:00	2/6/2023 16:00	1433.9
2/6/2023 16:00	2/6/2023 17:00	1432.8
2/6/2023 17:00	2/6/2023 18:00	1450.0
2/6/2023 18:00	2/6/2023 19:00	1383.8
2/6/2023 19:00	2/6/2023 20:00	1354.3
2/6/2023 20:00	2/6/2023 21:00	1338.7
2/6/2023 21:00	2/6/2023 22:00	1269.5
2/6/2023 22:00	2/6/2023 23:00	1197.8
2/6/2023 23:00	2/7/2023 0:00	1228.8
2/7/2023 0:00	2/7/2023 1:00	1214.8
2/7/2023 1:00	2/7/2023 2:00	1213.1
2/7/2023 2:00	2/7/2023 3:00	1208.0
2/7/2023 3:00	2/7/2023 4:00	1216.7
2/7/2023 4:00	2/7/2023 5:00	1233.9
2/7/2023 5:00	2/7/2023 6:00	1271.1
2/7/2023 6:00	2/7/2023 7:00	1414.1
2/7/2023 7:00	2/7/2023 8:00	1483.7
2/7/2023 8:00	2/7/2023 9:00	1515.1
2/7/2023 9:00	2/7/2023 10:00	1458.4
2/7/2023 10:00	2/7/2023 11:00	1375.5
2/7/2023 11:00	2/7/2023 12:00	1341.9
2/7/2023 12:00	2/7/2023 13:00	1323.4
2/7/2023 13:00	2/7/2023 14:00	1301.1
2/7/2023 14:00	2/7/2023 15:00	1306.0
2/7/2023 15:00	2/7/2023 16:00	1389.1
2/7/2023 16:00	2/7/2023 17:00	1516.8
2/7/2023 17:00	2/7/2023 18:00	1644.7
2/7/2023 18:00	2/7/2023 19:00	1701.6
2/7/2023 19:00	2/7/2023 20:00	1673.8
2/7/2023 20:00	2/7/2023 21:00	1631.2
2/7/2023 21:00	2/7/2023 22:00	1592.0
2/7/2023 22:00	2/7/2023 23:00	1557.4
2/7/2023 23:00	2/8/2023 0:00	1547.1
2/8/2023 0:00	2/8/2023 1:00	1566.7
2/8/2023 1:00	2/8/2023 2:00	1496.5
2/8/2023 2:00	2/8/2023 3:00	1439.8
2/8/2023 3:00	2/8/2023 4:00	1412.0

Start Time	End Time	ANL_MW
2/8/2023 4:00	2/8/2023 5:00	1421.5
2/8/2023 5:00	2/8/2023 6:00	1422.1
2/8/2023 6:00	2/8/2023 7:00	1523.6
2/8/2023 7:00	2/8/2023 8:00	1600.3
2/8/2023 8:00	2/8/2023 9:00	1629.2
2/8/2023 9:00	2/8/2023 10:00	1675.4
2/8/2023 10:00	2/8/2023 11:00	1662.4
2/8/2023 11:00	2/8/2023 12:00	1638.8
2/8/2023 12:00	2/8/2023 13:00	1612.3
2/8/2023 13:00	2/8/2023 14:00	1529.8
2/8/2023 14:00	2/8/2023 15:00	1500.8
2/8/2023 15:00	2/8/2023 16:00	1479.7
2/8/2023 16:00	2/8/2023 17:00	1514.7
2/8/2023 17:00	2/8/2023 18:00	1581.4
2/8/2023 18:00	2/8/2023 19:00	1589.4
2/8/2023 19:00	2/8/2023 20:00	1533.5
2/8/2023 20:00	2/8/2023 21:00	1410.2
2/8/2023 21:00	2/8/2023 22:00	1276.9
2/8/2023 22:00	2/8/2023 23:00	1236.2
2/8/2023 23:00	2/9/2023 0:00	1233.7
2/9/2023 0:00	2/9/2023 1:00	1169.6
2/9/2023 1:00	2/9/2023 2:00	1155.7
2/9/2023 2:00	2/9/2023 3:00	1145.6
2/9/2023 3:00	2/9/2023 4:00	1148.2
2/9/2023 4:00	2/9/2023 5:00	1172.8
2/9/2023 5:00	2/9/2023 6:00	1240.6
2/9/2023 6:00	2/9/2023 7:00	1431.2
2/9/2023 7:00	2/9/2023 8:00	1539.4
2/9/2023 8:00	2/9/2023 9:00	1559.2
2/9/2023 9:00	2/9/2023 10:00	1474.0
2/9/2023 10:00	2/9/2023 11:00	1409.4
2/9/2023 11:00	2/9/2023 12:00	1392.0
2/9/2023 12:00	2/9/2023 13:00	1423.3
2/9/2023 13:00	2/9/2023 14:00	1418.5
2/9/2023 14:00	2/9/2023 15:00	1417.7
2/9/2023 15:00	2/9/2023 16:00	1462.3
2/9/2023 16:00	2/9/2023 17:00	1585.9
2/9/2023 17:00	2/9/2023 18:00	1720.3
2/9/2023 18:00	2/9/2023 19:00	1730.0
2/9/2023 19:00	2/9/2023 20:00	1691.8
2/9/2023 20:00	2/9/2023 21:00	1660.9
2/9/2023 21:00	2/9/2023 22:00	1601.7
2/9/2023 22:00	2/9/2023 23:00	1519.1
2/9/2023 23:00	2/10/2023 0:00	1472.2
2/10/2023 0:00	2/10/2023 1:00	1422.8
2/10/2023 1:00	2/10/2023 2:00	1378.7
2/10/2023 2:00	2/10/2023 3:00	1345.4
2/10/2023 3:00	2/10/2023 4:00	1314.0
2/10/2023 4:00	2/10/2023 5:00	1277.8
2/10/2023 5:00	2/10/2023 6:00	1282.1
2/10/2023 6:00	2/10/2023 7:00	1398.3
2/10/2023 7:00	2/10/2023 8:00	1442.6
2/10/2023 8:00	2/10/2023 9:00	1493.2
2/10/2023 9:00	2/10/2023 10:00	1526.2
2/10/2023 10:00	2/10/2023 11:00	1501.1
2/10/2023 11:00	2/10/2023 12:00	1523.3
2/10/2023 12:00	2/10/2023 13:00	1506.8
2/10/2023 13:00	2/10/2023 14:00	1419.0
2/10/2023 14:00	2/10/2023 15:00	1390.4
2/10/2023 15:00	2/10/2023 16:00	1383.3
2/10/2023 16:00	2/10/2023 17:00	1409.0
2/10/2023 17:00	2/10/2023 18:00	1433.8
2/10/2023 18:00	2/10/2023 19:00	1414.4
2/10/2023 19:00	2/10/2023 20:00	1408.6
2/10/2023 20:00	2/10/2023 21:00	1345.9
2/10/2023 21:00	2/10/2023 22:00	1275.8
2/10/2023 22:00	2/10/2023 23:00	1201.0
2/10/2023 23:00	2/11/2023 0:00	1168.6
2/11/2023 0:00	2/11/2023 1:00	1083.8
2/11/2023 1:00	2/11/2023 2:00	993.3

Start Time	End Time	ANL_MW
2/11/2023 2:00	2/11/2023 3:00	962.7
2/11/2023 3:00	2/11/2023 4:00	964.6
2/11/2023 4:00	2/11/2023 5:00	997.2
2/11/2023 5:00	2/11/2023 6:00	1062.5
2/11/2023 6:00	2/11/2023 7:00	1169.2
2/11/2023 7:00	2/11/2023 8:00	1286.8
2/11/2023 8:00	2/11/2023 9:00	1416.8
2/11/2023 9:00	2/11/2023 10:00	1479.8
2/11/2023 10:00	2/11/2023 11:00	1467.2
2/11/2023 11:00	2/11/2023 12:00	1416.3
2/11/2023 12:00	2/11/2023 13:00	1358.4
2/11/2023 13:00	2/11/2023 14:00	1245.1
2/11/2023 14:00	2/11/2023 15:00	1239.0
2/11/2023 15:00	2/11/2023 16:00	1254.2
2/11/2023 16:00	2/11/2023 17:00	1325.3
2/11/2023 17:00	2/11/2023 18:00	1446.1
2/11/2023 18:00	2/11/2023 19:00	1524.5
2/11/2023 19:00	2/11/2023 20:00	1506.5
2/11/2023 20:00	2/11/2023 21:00	1475.1
2/11/2023 21:00	2/11/2023 22:00	1448.1
2/11/2023 22:00	2/11/2023 23:00	1428.6
2/11/2023 23:00	2/12/2023 0:00	1418.1
2/12/2023 0:00	2/12/2023 1:00	1375.5
2/12/2023 1:00	2/12/2023 2:00	1414.2
2/12/2023 2:00	2/12/2023 3:00	1442.8
2/12/2023 3:00	2/12/2023 4:00	1419.0
2/12/2023 4:00	2/12/2023 5:00	1385.3
2/12/2023 5:00	2/12/2023 6:00	1355.3
2/12/2023 6:00	2/12/2023 7:00	1364.3
2/12/2023 7:00	2/12/2023 8:00	1389.7
2/12/2023 8:00	2/12/2023 9:00	1371.8
2/12/2023 9:00	2/12/2023 10:00	1380.7
2/12/2023 10:00	2/12/2023 11:00	1394.2
2/12/2023 11:00	2/12/2023 12:00	1429.1
2/12/2023 12:00	2/12/2023 13:00	1392.5
2/12/2023 13:00	2/12/2023 14:00	1380.2
2/12/2023 14:00	2/12/2023 15:00	1396.5
2/12/2023 15:00	2/12/2023 16:00	1394.5
2/12/2023 16:00	2/12/2023 17:00	1452.8
2/12/2023 17:00	2/12/2023 18:00	1502.8
2/12/2023 18:00	2/12/2023 19:00	1573.5
2/12/2023 19:00	2/12/2023 20:00	1589.6
2/12/2023 20:00	2/12/2023 21:00	1544.9
2/12/2023 21:00	2/12/2023 22:00	1498.2
2/12/2023 22:00	2/12/2023 23:00	1438.1
2/12/2023 23:00	2/13/2023 0:00	1394.6
2/13/2023 0:00	2/13/2023 1:00	1371.5
2/13/2023 1:00	2/13/2023 2:00	1358.5
2/13/2023 2:00	2/13/2023 3:00	1352.3
2/13/2023 3:00	2/13/2023 4:00	1359.3
2/13/2023 4:00	2/13/2023 5:00	1381.9
2/13/2023 5:00	2/13/2023 6:00	1449.2
2/13/2023 6:00	2/13/2023 7:00	1575.6
2/13/2023 7:00	2/13/2023 8:00	1666.1
2/13/2023 8:00	2/13/2023 9:00	1668.8
2/13/2023 9:00	2/13/2023 10:00	1621.3
2/13/2023 10:00	2/13/2023 11:00	1593.8
2/13/2023 11:00	2/13/2023 12:00	1570.4
2/13/2023 12:00	2/13/2023 13:00	1546.5
2/13/2023 13:00	2/13/2023 14:00	1509.0
2/13/2023 14:00	2/13/2023 15:00	1493.8
2/13/2023 15:00	2/13/2023 16:00	1467.0
2/13/2023 16:00	2/13/2023 17:00	1491.6
2/13/2023 17:00	2/13/2023 18:00	1526.5
2/13/2023 18:00	2/13/2023 19:00	1473.7
2/13/2023 19:00	2/13/2023 20:00	1428.7
2/13/2023 20:00	2/13/2023 21:00	1372.9
2/13/2023 21:00	2/13/2023 22:00	1292.9
2/13/2023 22:00	2/13/2023 23:00	1243.2
2/13/2023 23:00	2/14/2023 0:00	1216.4

Start Time	End Time	ANL_MW
2/14/2023 0:00	2/14/2023 1:00	1190.0
2/14/2023 1:00	2/14/2023 2:00	1155.4
2/14/2023 2:00	2/14/2023 3:00	1115.2
2/14/2023 3:00	2/14/2023 4:00	1113.4
2/14/2023 4:00	2/14/2023 5:00	1126.6
2/14/2023 5:00	2/14/2023 6:00	1154.6
2/14/2023 6:00	2/14/2023 7:00	1246.0
2/14/2023 7:00	2/14/2023 8:00	1325.2
2/14/2023 8:00	2/14/2023 9:00	1398.1
2/14/2023 9:00	2/14/2023 10:00	1427.2
2/14/2023 10:00	2/14/2023 11:00	1410.8
2/14/2023 11:00	2/14/2023 12:00	1389.3
2/14/2023 12:00	2/14/2023 13:00	1369.5
2/14/2023 13:00	2/14/2023 14:00	1305.7
2/14/2023 14:00	2/14/2023 15:00	1257.9
2/14/2023 15:00	2/14/2023 16:00	1279.5
2/14/2023 16:00	2/14/2023 17:00	1381.0
2/14/2023 17:00	2/14/2023 18:00	1420.1
2/14/2023 18:00	2/14/2023 19:00	1449.2
2/14/2023 19:00	2/14/2023 20:00	1432.7
2/14/2023 20:00	2/14/2023 21:00	1417.9
2/14/2023 21:00	2/14/2023 22:00	1367.5
2/14/2023 22:00	2/14/2023 23:00	1300.7
2/14/2023 23:00	2/15/2023 0:00	1293.1
2/15/2023 0:00	2/15/2023 1:00	1281.3
2/15/2023 1:00	2/15/2023 2:00	1337.5
2/15/2023 2:00	2/15/2023 3:00	1357.4
2/15/2023 3:00	2/15/2023 4:00	1390.0
2/15/2023 4:00	2/15/2023 5:00	1422.1
2/15/2023 5:00	2/15/2023 6:00	1517.4
2/15/2023 6:00	2/15/2023 7:00	1671.6
2/15/2023 7:00	2/15/2023 8:00	1772.3
2/15/2023 8:00	2/15/2023 9:00	1741.8
2/15/2023 9:00	2/15/2023 10:00	1686.7
2/15/2023 10:00	2/15/2023 11:00	1610.8
2/15/2023 11:00	2/15/2023 12:00	1528.5
2/15/2023 12:00	2/15/2023 13:00	1473.7
2/15/2023 13:00	2/15/2023 14:00	1405.4
2/15/2023 14:00	2/15/2023 15:00	1355.3
2/15/2023 15:00	2/15/2023 16:00	1341.7
2/15/2023 16:00	2/15/2023 17:00	1385.2
2/15/2023 17:00	2/15/2023 18:00	1391.1
2/15/2023 18:00	2/15/2023 19:00	1362.9
2/15/2023 19:00	2/15/2023 20:00	1305.1
2/15/2023 20:00	2/15/2023 21:00	1240.2
2/15/2023 21:00	2/15/2023 22:00	1163.9
2/15/2023 22:00	2/15/2023 23:00	1104.9
2/15/2023 23:00	2/16/2023 0:00	1086.7
2/16/2023 0:00	2/16/2023 1:00	1032.9
2/16/2023 1:00	2/16/2023 2:00	1000.4
2/16/2023 2:00	2/16/2023 3:00	1005.5
2/16/2023 3:00	2/16/2023 4:00	1025.8
2/16/2023 4:00	2/16/2023 5:00	1041.6
2/16/2023 5:00	2/16/2023 6:00	1058.6
2/16/2023 6:00	2/16/2023 7:00	1121.4
2/16/2023 7:00	2/16/2023 8:00	1208.0
2/16/2023 8:00	2/16/2023 9:00	1184.8
2/16/2023 9:00	2/16/2023 10:00	1133.8
2/16/2023 10:00	2/16/2023 11:00	1117.8
2/16/2023 11:00	2/16/2023 12:00	1100.1
2/16/2023 12:00	2/16/2023 13:00	1030.5
2/16/2023 13:00	2/16/2023 14:00	1008.1
2/16/2023 14:00	2/16/2023 15:00	1025.2
2/16/2023 15:00	2/16/2023 16:00	1090.3
2/16/2023 16:00	2/16/2023 17:00	1093.7
2/16/2023 17:00	2/16/2023 18:00	1124.7
2/16/2023 18:00	2/16/2023 19:00	1165.7
2/16/2023 19:00	2/16/2023 20:00	1143.0
2/16/2023 20:00	2/16/2023 21:00	1133.9
2/16/2023 21:00	2/16/2023 22:00	1092.2

Start Time	End Time	ANL_MW
2/16/2023 22:00	2/16/2023 23:00	1037.9
2/16/2023 23:00	2/17/2023 0:00	1039.2
2/17/2023 0:00	2/17/2023 1:00	1156.9
2/17/2023 1:00	2/17/2023 2:00	1178.3
2/17/2023 2:00	2/17/2023 3:00	1191.3
2/17/2023 3:00	2/17/2023 4:00	1176.4
2/17/2023 4:00	2/17/2023 5:00	1182.2
2/17/2023 5:00	2/17/2023 6:00	1231.2
2/17/2023 6:00	2/17/2023 7:00	1330.8
2/17/2023 7:00	2/17/2023 8:00	1390.3
2/17/2023 8:00	2/17/2023 9:00	1324.5
2/17/2023 9:00	2/17/2023 10:00	1354.3
2/17/2023 10:00	2/17/2023 11:00	1453.5
2/17/2023 11:00	2/17/2023 12:00	1549.1
2/17/2023 12:00	2/17/2023 13:00	1543.5
2/17/2023 13:00	2/17/2023 14:00	1555.2
2/17/2023 14:00	2/17/2023 15:00	1540.8
2/17/2023 15:00	2/17/2023 16:00	1558.8
2/17/2023 16:00	2/17/2023 17:00	1611.7
2/17/2023 17:00	2/17/2023 18:00	1629.8
2/17/2023 18:00	2/17/2023 19:00	1593.2
2/17/2023 19:00	2/17/2023 20:00	1585.5
2/17/2023 20:00	2/17/2023 21:00	1551.7
2/17/2023 21:00	2/17/2023 22:00	1485.7
2/17/2023 22:00	2/17/2023 23:00	1427.3
2/17/2023 23:00	2/18/2023 0:00	1440.3
2/18/2023 0:00	2/18/2023 1:00	1437.8
2/18/2023 1:00	2/18/2023 2:00	1421.6
2/18/2023 2:00	2/18/2023 3:00	1389.4
2/18/2023 3:00	2/18/2023 4:00	1390.3
2/18/2023 4:00	2/18/2023 5:00	1391.9
2/18/2023 5:00	2/18/2023 6:00	1432.2
2/18/2023 6:00	2/18/2023 7:00	1454.9
2/18/2023 7:00	2/18/2023 8:00	1536.0
2/18/2023 8:00	2/18/2023 9:00	1636.6
2/18/2023 9:00	2/18/2023 10:00	1653.8
2/18/2023 10:00	2/18/2023 11:00	1659.8
2/18/2023 11:00	2/18/2023 12:00	1630.3
2/18/2023 12:00	2/18/2023 13:00	1605.4
2/18/2023 13:00	2/18/2023 14:00	1544.3
2/18/2023 14:00	2/18/2023 15:00	1504.1
2/18/2023 15:00	2/18/2023 16:00	1492.4
2/18/2023 16:00	2/18/2023 17:00	1539.7
2/18/2023 17:00	2/18/2023 18:00	1654.3
2/18/2023 18:00	2/18/2023 19:00	1705.1
2/18/2023 19:00	2/18/2023 20:00	1659.4
2/18/2023 20:00	2/18/2023 21:00	1585.7
2/18/2023 21:00	2/18/2023 22:00	1521.4
2/18/2023 22:00	2/18/2023 23:00	1429.1
2/18/2023 23:00	2/19/2023 0:00	1380.5
2/19/2023 0:00	2/19/2023 1:00	1353.5
2/19/2023 1:00	2/19/2023 2:00	1344.9
2/19/2023 2:00	2/19/2023 3:00	1338.8
2/19/2023 3:00	2/19/2023 4:00	1334.3
2/19/2023 4:00	2/19/2023 5:00	1346.5
2/19/2023 5:00	2/19/2023 6:00	1364.0
2/19/2023 6:00	2/19/2023 7:00	1420.2
2/19/2023 7:00	2/19/2023 8:00	1490.3
2/19/2023 8:00	2/19/2023 9:00	1508.9
2/19/2023 9:00	2/19/2023 10:00	1514.5
2/19/2023 10:00	2/19/2023 11:00	1472.9
2/19/2023 11:00	2/19/2023 12:00	1435.0
2/19/2023 12:00	2/19/2023 13:00	1458.1
2/19/2023 13:00	2/19/2023 14:00	1478.7
2/19/2023 14:00	2/19/2023 15:00	1452.5
2/19/2023 15:00	2/19/2023 16:00	1445.2
2/19/2023 16:00	2/19/2023 17:00	1496.0
2/19/2023 17:00	2/19/2023 18:00	1546.6
2/19/2023 18:00	2/19/2023 19:00	1527.3
2/19/2023 19:00	2/19/2023 20:00	1425.1

Start Time	End Time	ANL_MW
2/19/2023 20:00	2/19/2023 21:00	1325.4
2/19/2023 21:00	2/19/2023 22:00	1239.1
2/19/2023 22:00	2/19/2023 23:00	1155.9
2/19/2023 23:00	2/20/2023 0:00	1068.2
2/20/2023 0:00	2/20/2023 1:00	986.1
2/20/2023 1:00	2/20/2023 2:00	941.6
2/20/2023 2:00	2/20/2023 3:00	911.6
2/20/2023 3:00	2/20/2023 4:00	899.9
2/20/2023 4:00	2/20/2023 5:00	928.2
2/20/2023 5:00	2/20/2023 6:00	923.9
2/20/2023 6:00	2/20/2023 7:00	978.5
2/20/2023 7:00	2/20/2023 8:00	984.4
2/20/2023 8:00	2/20/2023 9:00	1017.3
2/20/2023 9:00	2/20/2023 10:00	1060.3
2/20/2023 10:00	2/20/2023 11:00	1092.4
2/20/2023 11:00	2/20/2023 12:00	1134.9
2/20/2023 12:00	2/20/2023 13:00	1149.7
2/20/2023 13:00	2/20/2023 14:00	1136.6
2/20/2023 14:00	2/20/2023 15:00	1144.0
2/20/2023 15:00	2/20/2023 16:00	1150.5
2/20/2023 16:00	2/20/2023 17:00	1200.0
2/20/2023 17:00	2/20/2023 18:00	1257.7
2/20/2023 18:00	2/20/2023 19:00	1262.8
2/20/2023 19:00	2/20/2023 20:00	1249.1
2/20/2023 20:00	2/20/2023 21:00	1182.9
2/20/2023 21:00	2/20/2023 22:00	1117.9
2/20/2023 22:00	2/20/2023 23:00	1098.2
2/20/2023 23:00	2/21/2023 0:00	1088.5
2/21/2023 0:00	2/21/2023 1:00	1062.0
2/21/2023 1:00	2/21/2023 2:00	1048.0
2/21/2023 2:00	2/21/2023 3:00	1037.3
2/21/2023 3:00	2/21/2023 4:00	1050.6
2/21/2023 4:00	2/21/2023 5:00	1098.2
2/21/2023 5:00	2/21/2023 6:00	1158.1
2/21/2023 6:00	2/21/2023 7:00	1301.3
2/21/2023 7:00	2/21/2023 8:00	1412.9
2/21/2023 8:00	2/21/2023 9:00	1416.3
2/21/2023 9:00	2/21/2023 10:00	1401.3
2/21/2023 10:00	2/21/2023 11:00	1417.6
2/21/2023 11:00	2/21/2023 12:00	1431.9
2/21/2023 12:00	2/21/2023 13:00	1459.7
2/21/2023 13:00	2/21/2023 14:00	1454.5
2/21/2023 14:00	2/21/2023 15:00	1474.2
2/21/2023 15:00	2/21/2023 16:00	1517.1
2/21/2023 16:00	2/21/2023 17:00	1564.2
2/21/2023 17:00	2/21/2023 18:00	1604.5
2/21/2023 18:00	2/21/2023 19:00	1622.8
2/21/2023 19:00	2/21/2023 20:00	1591.0
2/21/2023 20:00	2/21/2023 21:00	1546.7
2/21/2023 21:00	2/21/2023 22:00	1488.2
2/21/2023 22:00	2/21/2023 23:00	1432.2
2/21/2023 23:00	2/22/2023 0:00	1431.1
2/22/2023 0:00	2/22/2023 1:00	1409.6
2/22/2023 1:00	2/22/2023 2:00	1391.3
2/22/2023 2:00	2/22/2023 3:00	1380.7
2/22/2023 3:00	2/22/2023 4:00	1350.3
2/22/2023 4:00	2/22/2023 5:00	1373.1
2/22/2023 5:00	2/22/2023 6:00	1421.1
2/22/2023 6:00	2/22/2023 7:00	1557.9
2/22/2023 7:00	2/22/2023 8:00	1645.9
2/22/2023 8:00	2/22/2023 9:00	1609.2
2/22/2023 9:00	2/22/2023 10:00	1504.2
2/22/2023 10:00	2/22/2023 11:00	1402.5
2/22/2023 11:00	2/22/2023 12:00	1313.7
2/22/2023 12:00	2/22/2023 13:00	1232.4
2/22/2023 13:00	2/22/2023 14:00	1144.5
2/22/2023 14:00	2/22/2023 15:00	1091.0
2/22/2023 15:00	2/22/2023 16:00	1086.0
2/22/2023 16:00	2/22/2023 17:00	1142.7
2/22/2023 17:00	2/22/2023 18:00	1253.9

Start Time	End Time	ANL_MW
2/22/2023 18:00	2/22/2023 19:00	1354.9
2/22/2023 19:00	2/22/2023 20:00	1326.6
2/22/2023 20:00	2/22/2023 21:00	1259.4
2/22/2023 21:00	2/22/2023 22:00	1213.3
2/22/2023 22:00	2/22/2023 23:00	1169.9
2/22/2023 23:00	2/23/2023 0:00	1160.5
2/23/2023 0:00	2/23/2023 1:00	1156.4
2/23/2023 1:00	2/23/2023 2:00	1152.7
2/23/2023 2:00	2/23/2023 3:00	1180.7
2/23/2023 3:00	2/23/2023 4:00	1235.1
2/23/2023 4:00	2/23/2023 5:00	1308.0
2/23/2023 5:00	2/23/2023 6:00	1423.0
2/23/2023 6:00	2/23/2023 7:00	1548.2
2/23/2023 7:00	2/23/2023 8:00	1665.7
2/23/2023 8:00	2/23/2023 9:00	1725.6
2/23/2023 9:00	2/23/2023 10:00	1702.4
2/23/2023 10:00	2/23/2023 11:00	1694.6
2/23/2023 11:00	2/23/2023 12:00	1728.4
2/23/2023 12:00	2/23/2023 13:00	1728.0
2/23/2023 13:00	2/23/2023 14:00	1710.5
2/23/2023 14:00	2/23/2023 15:00	1676.5
2/23/2023 15:00	2/23/2023 16:00	1690.9
2/23/2023 16:00	2/23/2023 17:00	1730.1
2/23/2023 17:00	2/23/2023 18:00	1814.0
2/23/2023 18:00	2/23/2023 19:00	1861.9
2/23/2023 19:00	2/23/2023 20:00	1847.7
2/23/2023 20:00	2/23/2023 21:00	1814.8
2/23/2023 21:00	2/23/2023 22:00	1754.9
2/23/2023 22:00	2/23/2023 23:00	1683.6
2/23/2023 23:00	2/24/2023 0:00	1662.7
2/24/2023 0:00	2/24/2023 1:00	1641.2
2/24/2023 1:00	2/24/2023 2:00	1623.3
2/24/2023 2:00	2/24/2023 3:00	1607.4
2/24/2023 3:00	2/24/2023 4:00	1591.5
2/24/2023 4:00	2/24/2023 5:00	1594.3
2/24/2023 5:00	2/24/2023 6:00	1641.2
2/24/2023 6:00	2/24/2023 7:00	1722.5
2/24/2023 7:00	2/24/2023 8:00	1773.2
2/24/2023 8:00	2/24/2023 9:00	1812.6
2/24/2023 9:00	2/24/2023 10:00	1778.5
2/24/2023 10:00	2/24/2023 11:00	1713.2
2/24/2023 11:00	2/24/2023 12:00	1655.2
2/24/2023 12:00	2/24/2023 13:00	1656.1
2/24/2023 13:00	2/24/2023 14:00	1623.2
2/24/2023 14:00	2/24/2023 15:00	1570.3
2/24/2023 15:00	2/24/2023 16:00	1559.6
2/24/2023 16:00	2/24/2023 17:00	1521.6
2/24/2023 17:00	2/24/2023 18:00	1560.4
2/24/2023 18:00	2/24/2023 19:00	1618.0
2/24/2023 19:00	2/24/2023 20:00	1610.0
2/24/2023 20:00	2/24/2023 21:00	1583.2
2/24/2023 21:00	2/24/2023 22:00	1578.9
2/24/2023 22:00	2/24/2023 23:00	1591.7
2/24/2023 23:00	2/25/2023 0:00	1571.9
2/25/2023 0:00	2/25/2023 1:00	1567.2
2/25/2023 1:00	2/25/2023 2:00	1533.3
2/25/2023 2:00	2/25/2023 3:00	1497.7
2/25/2023 3:00	2/25/2023 4:00	1492.3
2/25/2023 4:00	2/25/2023 5:00	1514.3
2/25/2023 5:00	2/25/2023 6:00	1544.2
2/25/2023 6:00	2/25/2023 7:00	1620.5
2/25/2023 7:00	2/25/2023 8:00	1682.7
2/25/2023 8:00	2/25/2023 9:00	1697.0
2/25/2023 9:00	2/25/2023 10:00	1664.2
2/25/2023 10:00	2/25/2023 11:00	1664.2
2/25/2023 11:00	2/25/2023 12:00	1673.8
2/25/2023 12:00	2/25/2023 13:00	1642.4
2/25/2023 13:00	2/25/2023 14:00	1591.7
2/25/2023 14:00	2/25/2023 15:00	1566.3
2/25/2023 15:00	2/25/2023 16:00	1579.5

Start Time	End Time	ANL_MW
2/25/2023 16:00	2/25/2023 17:00	1665.2
2/25/2023 17:00	2/25/2023 18:00	1829.5
2/25/2023 18:00	2/25/2023 19:00	1933.2
2/25/2023 19:00	2/25/2023 20:00	1941.0
2/25/2023 20:00	2/25/2023 21:00	1919.9
2/25/2023 21:00	2/25/2023 22:00	1866.8
2/25/2023 22:00	2/25/2023 23:00	1804.8
2/25/2023 23:00	2/26/2023 0:00	1773.3
2/26/2023 0:00	2/26/2023 1:00	1741.7
2/26/2023 1:00	2/26/2023 2:00	1738.9
2/26/2023 2:00	2/26/2023 3:00	1749.4
2/26/2023 3:00	2/26/2023 4:00	1773.2
2/26/2023 4:00	2/26/2023 5:00	1803.6
2/26/2023 5:00	2/26/2023 6:00	1844.6
2/26/2023 6:00	2/26/2023 7:00	1893.7
2/26/2023 7:00	2/26/2023 8:00	1947.9
2/26/2023 8:00	2/26/2023 9:00	1949.2
2/26/2023 9:00	2/26/2023 10:00	1911.7
2/26/2023 10:00	2/26/2023 11:00	1864.9
2/26/2023 11:00	2/26/2023 12:00	1820.1
2/26/2023 12:00	2/26/2023 13:00	1781.2
2/26/2023 13:00	2/26/2023 14:00	1716.3
2/26/2023 14:00	2/26/2023 15:00	1680.5
2/26/2023 15:00	2/26/2023 16:00	1704.8
2/26/2023 16:00	2/26/2023 17:00	1791.0
2/26/2023 17:00	2/26/2023 18:00	1871.3
2/26/2023 18:00	2/26/2023 19:00	1926.5
2/26/2023 19:00	2/26/2023 20:00	1920.0
2/26/2023 20:00	2/26/2023 21:00	1875.6
2/26/2023 21:00	2/26/2023 22:00	1806.8
2/26/2023 22:00	2/26/2023 23:00	1707.2
2/26/2023 23:00	2/27/2023 0:00	1647.0
2/27/2023 0:00	2/27/2023 1:00	1614.3
2/27/2023 1:00	2/27/2023 2:00	1620.7
2/27/2023 2:00	2/27/2023 3:00	1616.0
2/27/2023 3:00	2/27/2023 4:00	1615.3
2/27/2023 4:00	2/27/2023 5:00	1620.3
2/27/2023 5:00	2/27/2023 6:00	1679.3
2/27/2023 6:00	2/27/2023 7:00	1817.9
2/27/2023 7:00	2/27/2023 8:00	1897.5
2/27/2023 8:00	2/27/2023 9:00	1881.3
2/27/2023 9:00	2/27/2023 10:00	1794.5
2/27/2023 10:00	2/27/2023 11:00	1715.9
2/27/2023 11:00	2/27/2023 12:00	1664.3
2/27/2023 12:00	2/27/2023 13:00	1631.4
2/27/2023 13:00	2/27/2023 14:00	1570.7
2/27/2023 14:00	2/27/2023 15:00	1517.8
2/27/2023 15:00	2/27/2023 16:00	1529.4
2/27/2023 16:00	2/27/2023 17:00	1605.6
2/27/2023 17:00	2/27/2023 18:00	1729.1
2/27/2023 18:00	2/27/2023 19:00	1822.6
2/27/2023 19:00	2/27/2023 20:00	1824.7
2/27/2023 20:00	2/27/2023 21:00	1808.7
2/27/2023 21:00	2/27/2023 22:00	1775.1
2/27/2023 22:00	2/27/2023 23:00	1736.4
2/27/2023 23:00	2/28/2023 0:00	1749.1
2/28/2023 0:00	2/28/2023 1:00	1743.2
2/28/2023 1:00	2/28/2023 2:00	1735.6
2/28/2023 2:00	2/28/2023 3:00	1734.6
2/28/2023 3:00	2/28/2023 4:00	1745.7
2/28/2023 4:00	2/28/2023 5:00	1748.0
2/28/2023 5:00	2/28/2023 6:00	1793.7
2/28/2023 6:00	2/28/2023 7:00	1904.9
2/28/2023 7:00	2/28/2023 8:00	1952.9
2/28/2023 8:00	2/28/2023 9:00	1907.7
2/28/2023 9:00	2/28/2023 10:00	1821.2
2/28/2023 10:00	2/28/2023 11:00	1712.4
2/28/2023 11:00	2/28/2023 12:00	1676.1
2/28/2023 12:00	2/28/2023 13:00	1663.3
2/28/2023 13:00	2/28/2023 14:00	1626.1

Start Time	End Time	ANL_MW
2/28/2023 14:00	2/28/2023 15:00	1590.0
2/28/2023 15:00	2/28/2023 16:00	1586.9
2/28/2023 16:00	2/28/2023 17:00	1626.4
2/28/2023 17:00	2/28/2023 18:00	1699.3
2/28/2023 18:00	2/28/2023 19:00	1756.1
2/28/2023 19:00	2/28/2023 20:00	1714.7
2/28/2023 20:00	2/28/2023 21:00	1679.6
2/28/2023 21:00	2/28/2023 22:00	1611.1
2/28/2023 22:00	2/28/2023 23:00	1519.2
2/28/2023 23:00	3/1/2023 0:00	1473.4
3/1/2023 0:00	3/1/2023 1:00	1455.3
3/1/2023 1:00	3/1/2023 2:00	1455.2
3/1/2023 2:00	3/1/2023 3:00	1450.4
3/1/2023 3:00	3/1/2023 4:00	1439.7
3/1/2023 4:00	3/1/2023 5:00	1422.2
3/1/2023 5:00	3/1/2023 6:00	1464.3
3/1/2023 6:00	3/1/2023 7:00	1594.5
3/1/2023 7:00	3/1/2023 8:00	1708.1
3/1/2023 8:00	3/1/2023 9:00	1771.4
3/1/2023 9:00	3/1/2023 10:00	1771.0
3/1/2023 10:00	3/1/2023 11:00	1724.2
3/1/2023 11:00	3/1/2023 12:00	1691.7
3/1/2023 12:00	3/1/2023 13:00	1654.1
3/1/2023 13:00	3/1/2023 14:00	1612.3
3/1/2023 14:00	3/1/2023 15:00	1607.9
3/1/2023 15:00	3/1/2023 16:00	1621.3
3/1/2023 16:00	3/1/2023 17:00	1668.5
3/1/2023 17:00	3/1/2023 18:00	1734.1
3/1/2023 18:00	3/1/2023 19:00	1767.0
3/1/2023 19:00	3/1/2023 20:00	1732.1
3/1/2023 20:00	3/1/2023 21:00	1693.3
3/1/2023 21:00	3/1/2023 22:00	1622.0
3/1/2023 22:00	3/1/2023 23:00	1541.2
3/1/2023 23:00	3/2/2023 0:00	1510.8
3/2/2023 0:00	3/2/2023 1:00	1480.5
3/2/2023 1:00	3/2/2023 2:00	1461.9
3/2/2023 2:00	3/2/2023 3:00	1431.9
3/2/2023 3:00	3/2/2023 4:00	1423.9
3/2/2023 4:00	3/2/2023 5:00	1452.6
3/2/2023 5:00	3/2/2023 6:00	1530.2
3/2/2023 6:00	3/2/2023 7:00	1663.1
3/2/2023 7:00	3/2/2023 8:00	1743.9
3/2/2023 8:00	3/2/2023 9:00	1703.0
3/2/2023 9:00	3/2/2023 10:00	1632.7
3/2/2023 10:00	3/2/2023 11:00	1601.4
3/2/2023 11:00	3/2/2023 12:00	1539.7
3/2/2023 12:00	3/2/2023 13:00	1538.4
3/2/2023 13:00	3/2/2023 14:00	1528.6
3/2/2023 14:00	3/2/2023 15:00	1509.8
3/2/2023 15:00	3/2/2023 16:00	1518.8
3/2/2023 16:00	3/2/2023 17:00	1567.8
3/2/2023 17:00	3/2/2023 18:00	1598.6
3/2/2023 18:00	3/2/2023 19:00	1594.5
3/2/2023 19:00	3/2/2023 20:00	1559.7
3/2/2023 20:00	3/2/2023 21:00	1486.1
3/2/2023 21:00	3/2/2023 22:00	1419.6
3/2/2023 22:00	3/2/2023 23:00	1325.0
3/2/2023 23:00	3/3/2023 0:00	1260.6
3/3/2023 0:00	3/3/2023 1:00	1226.5
3/3/2023 1:00	3/3/2023 2:00	1177.8
3/3/2023 2:00	3/3/2023 3:00	1150.7
3/3/2023 3:00	3/3/2023 4:00	1119.5
3/3/2023 4:00	3/3/2023 5:00	1128.5
3/3/2023 5:00	3/3/2023 6:00	1185.2
3/3/2023 6:00	3/3/2023 7:00	1288.0
3/3/2023 7:00	3/3/2023 8:00	1386.4
3/3/2023 8:00	3/3/2023 9:00	1422.3
3/3/2023 9:00	3/3/2023 10:00	1415.6
3/3/2023 10:00	3/3/2023 11:00	1394.0
3/3/2023 11:00	3/3/2023 12:00	1399.9

Start Time	End Time	ANL_MW
3/3/2023 12:00	3/3/2023 13:00	1413.9
3/3/2023 13:00	3/3/2023 14:00	1348.1
3/3/2023 14:00	3/3/2023 15:00	1330.4
3/3/2023 15:00	3/3/2023 16:00	1321.2
3/3/2023 16:00	3/3/2023 17:00	1311.0
3/3/2023 17:00	3/3/2023 18:00	1354.6
3/3/2023 18:00	3/3/2023 19:00	1435.1
3/3/2023 19:00	3/3/2023 20:00	1445.2
3/3/2023 20:00	3/3/2023 21:00	1425.1
3/3/2023 21:00	3/3/2023 22:00	1398.3
3/3/2023 22:00	3/3/2023 23:00	1356.9
3/3/2023 23:00	3/4/2023 0:00	1355.2
3/4/2023 0:00	3/4/2023 1:00	1334.5
3/4/2023 1:00	3/4/2023 2:00	1336.2
3/4/2023 2:00	3/4/2023 3:00	1375.8
3/4/2023 3:00	3/4/2023 4:00	1404.6
3/4/2023 4:00	3/4/2023 5:00	1464.6
3/4/2023 5:00	3/4/2023 6:00	1563.6
3/4/2023 6:00	3/4/2023 7:00	1633.0
3/4/2023 7:00	3/4/2023 8:00	1680.0
3/4/2023 8:00	3/4/2023 9:00	1717.5
3/4/2023 9:00	3/4/2023 10:00	1739.0
3/4/2023 10:00	3/4/2023 11:00	1743.9
3/4/2023 11:00	3/4/2023 12:00	1734.4
3/4/2023 12:00	3/4/2023 13:00	1679.0
3/4/2023 13:00	3/4/2023 14:00	1617.2
3/4/2023 14:00	3/4/2023 15:00	1574.4
3/4/2023 15:00	3/4/2023 16:00	1551.5
3/4/2023 16:00	3/4/2023 17:00	1588.2
3/4/2023 17:00	3/4/2023 18:00	1638.7
3/4/2023 18:00	3/4/2023 19:00	1631.3
3/4/2023 19:00	3/4/2023 20:00	1542.3
3/4/2023 20:00	3/4/2023 21:00	1492.3
3/4/2023 21:00	3/4/2023 22:00	1519.5
3/4/2023 22:00	3/4/2023 23:00	1493.2
3/4/2023 23:00	3/5/2023 0:00	1475.5
3/5/2023 0:00	3/5/2023 1:00	1431.2
3/5/2023 1:00	3/5/2023 2:00	1396.5
3/5/2023 2:00	3/5/2023 3:00	1381.2
3/5/2023 3:00	3/5/2023 4:00	1321.4
3/5/2023 4:00	3/5/2023 5:00	1301.0
3/5/2023 5:00	3/5/2023 6:00	1315.0
3/5/2023 6:00	3/5/2023 7:00	1376.0
3/5/2023 7:00	3/5/2023 8:00	1423.8
3/5/2023 8:00	3/5/2023 9:00	1428.2
3/5/2023 9:00	3/5/2023 10:00	1389.8
3/5/2023 10:00	3/5/2023 11:00	1323.7
3/5/2023 11:00	3/5/2023 12:00	1264.3
3/5/2023 12:00	3/5/2023 13:00	1209.2
3/5/2023 13:00	3/5/2023 14:00	1128.0
3/5/2023 14:00	3/5/2023 15:00	1099.8
3/5/2023 15:00	3/5/2023 16:00	1181.2
3/5/2023 16:00	3/5/2023 17:00	1239.0
3/5/2023 17:00	3/5/2023 18:00	1293.9
3/5/2023 18:00	3/5/2023 19:00	1328.5
3/5/2023 19:00	3/5/2023 20:00	1315.6
3/5/2023 20:00	3/5/2023 21:00	1304.0
3/5/2023 21:00	3/5/2023 22:00	1265.0
3/5/2023 22:00	3/5/2023 23:00	1166.3
3/5/2023 23:00	3/6/2023 0:00	1095.0
3/6/2023 0:00	3/6/2023 1:00	1051.8
3/6/2023 1:00	3/6/2023 2:00	1041.6
3/6/2023 2:00	3/6/2023 3:00	1044.2
3/6/2023 3:00	3/6/2023 4:00	1082.9
3/6/2023 4:00	3/6/2023 5:00	1130.5
3/6/2023 5:00	3/6/2023 6:00	1167.6
3/6/2023 6:00	3/6/2023 7:00	1313.5
3/6/2023 7:00	3/6/2023 8:00	1429.0
3/6/2023 8:00	3/6/2023 9:00	1508.7
3/6/2023 9:00	3/6/2023 10:00	1520.6

Start Time	End Time	ANL_MW
3/6/2023 10:00	3/6/2023 11:00	1510.1
3/6/2023 11:00	3/6/2023 12:00	1478.9
3/6/2023 12:00	3/6/2023 13:00	1450.2
3/6/2023 13:00	3/6/2023 14:00	1380.9
3/6/2023 14:00	3/6/2023 15:00	1353.3
3/6/2023 15:00	3/6/2023 16:00	1376.0
3/6/2023 16:00	3/6/2023 17:00	1385.5
3/6/2023 17:00	3/6/2023 18:00	1434.5
3/6/2023 18:00	3/6/2023 19:00	1497.9
3/6/2023 19:00	3/6/2023 20:00	1501.8
3/6/2023 20:00	3/6/2023 21:00	1477.6
3/6/2023 21:00	3/6/2023 22:00	1457.4
3/6/2023 22:00	3/6/2023 23:00	1423.4
3/6/2023 23:00	3/7/2023 0:00	1422.0
3/7/2023 0:00	3/7/2023 1:00	1413.3
3/7/2023 1:00	3/7/2023 2:00	1396.5
3/7/2023 2:00	3/7/2023 3:00	1373.7
3/7/2023 3:00	3/7/2023 4:00	1375.8
3/7/2023 4:00	3/7/2023 5:00	1400.8
3/7/2023 5:00	3/7/2023 6:00	1469.9
3/7/2023 6:00	3/7/2023 7:00	1573.1
3/7/2023 7:00	3/7/2023 8:00	1649.5
3/7/2023 8:00	3/7/2023 9:00	1637.5
3/7/2023 9:00	3/7/2023 10:00	1569.7
3/7/2023 10:00	3/7/2023 11:00	1502.1
3/7/2023 11:00	3/7/2023 12:00	1470.4
3/7/2023 12:00	3/7/2023 13:00	1462.0
3/7/2023 13:00	3/7/2023 14:00	1428.4
3/7/2023 14:00	3/7/2023 15:00	1402.9
3/7/2023 15:00	3/7/2023 16:00	1412.5
3/7/2023 16:00	3/7/2023 17:00	1452.0
3/7/2023 17:00	3/7/2023 18:00	1493.6
3/7/2023 18:00	3/7/2023 19:00	1492.2
3/7/2023 19:00	3/7/2023 20:00	1461.2
3/7/2023 20:00	3/7/2023 21:00	1409.2
3/7/2023 21:00	3/7/2023 22:00	1335.6
3/7/2023 22:00	3/7/2023 23:00	1319.3
3/7/2023 23:00	3/8/2023 0:00	1320.2
3/8/2023 0:00	3/8/2023 1:00	1219.3
3/8/2023 1:00	3/8/2023 2:00	1182.3
3/8/2023 2:00	3/8/2023 3:00	1130.5
3/8/2023 3:00	3/8/2023 4:00	1086.2
3/8/2023 4:00	3/8/2023 5:00	1046.5
3/8/2023 5:00	3/8/2023 6:00	1052.8
3/8/2023 6:00	3/8/2023 7:00	1162.3
3/8/2023 7:00	3/8/2023 8:00	1259.0
3/8/2023 8:00	3/8/2023 9:00	1248.1
3/8/2023 9:00	3/8/2023 10:00	1191.9
3/8/2023 10:00	3/8/2023 11:00	1146.3
3/8/2023 11:00	3/8/2023 12:00	1130.6
3/8/2023 12:00	3/8/2023 13:00	1113.0
3/8/2023 13:00	3/8/2023 14:00	1088.9
3/8/2023 14:00	3/8/2023 15:00	1087.1
3/8/2023 15:00	3/8/2023 16:00	1106.3
3/8/2023 16:00	3/8/2023 17:00	1176.3
3/8/2023 17:00	3/8/2023 18:00	1238.8
3/8/2023 18:00	3/8/2023 19:00	1315.0
3/8/2023 19:00	3/8/2023 20:00	1374.7
3/8/2023 20:00	3/8/2023 21:00	1379.0
3/8/2023 21:00	3/8/2023 22:00	1347.6
3/8/2023 22:00	3/8/2023 23:00	1272.3
3/8/2023 23:00	3/9/2023 0:00	1259.2
3/9/2023 0:00	3/9/2023 1:00	1211.9
3/9/2023 1:00	3/9/2023 2:00	1183.1
3/9/2023 2:00	3/9/2023 3:00	1186.9
3/9/2023 3:00	3/9/2023 4:00	1168.3
3/9/2023 4:00	3/9/2023 5:00	1193.5
3/9/2023 5:00	3/9/2023 6:00	1267.3
3/9/2023 6:00	3/9/2023 7:00	1407.8
3/9/2023 7:00	3/9/2023 8:00	1489.7

Start Time	End Time	ANL_MW
3/9/2023 8:00	3/9/2023 9:00	1464.3
3/9/2023 9:00	3/9/2023 10:00	1394.9
3/9/2023 10:00	3/9/2023 11:00	1355.1
3/9/2023 11:00	3/9/2023 12:00	1320.5
3/9/2023 12:00	3/9/2023 13:00	1269.4
3/9/2023 13:00	3/9/2023 14:00	1256.4
3/9/2023 14:00	3/9/2023 15:00	1228.2
3/9/2023 15:00	3/9/2023 16:00	1238.7
3/9/2023 16:00	3/9/2023 17:00	1314.5
3/9/2023 17:00	3/9/2023 18:00	1346.9
3/9/2023 18:00	3/9/2023 19:00	1452.7
3/9/2023 19:00	3/9/2023 20:00	1510.7
3/9/2023 20:00	3/9/2023 21:00	1488.1
3/9/2023 21:00	3/9/2023 22:00	1478.4
3/9/2023 22:00	3/9/2023 23:00	1350.9
3/9/2023 23:00	3/10/2023 0:00	1319.5
3/10/2023 0:00	3/10/2023 1:00	1241.5
3/10/2023 1:00	3/10/2023 2:00	1176.3
3/10/2023 2:00	3/10/2023 3:00	1132.2
3/10/2023 3:00	3/10/2023 4:00	1142.6
3/10/2023 4:00	3/10/2023 5:00	1144.2
3/10/2023 5:00	3/10/2023 6:00	1193.9
3/10/2023 6:00	3/10/2023 7:00	1319.9
3/10/2023 7:00	3/10/2023 8:00	1420.8
3/10/2023 8:00	3/10/2023 9:00	1436.6
3/10/2023 9:00	3/10/2023 10:00	1376.9
3/10/2023 10:00	3/10/2023 11:00	1309.3
3/10/2023 11:00	3/10/2023 12:00	1302.2
3/10/2023 12:00	3/10/2023 13:00	1302.1
3/10/2023 13:00	3/10/2023 14:00	1296.4
3/10/2023 14:00	3/10/2023 15:00	1308.1
3/10/2023 15:00	3/10/2023 16:00	1332.7
3/10/2023 16:00	3/10/2023 17:00	1402.0
3/10/2023 17:00	3/10/2023 18:00	1485.0
3/10/2023 18:00	3/10/2023 19:00	1556.0
3/10/2023 19:00	3/10/2023 20:00	1556.7
3/10/2023 20:00	3/10/2023 21:00	1553.1
3/10/2023 21:00	3/10/2023 22:00	1519.8
3/10/2023 22:00	3/10/2023 23:00	1509.0
3/10/2023 23:00	3/11/2023 0:00	1530.1
3/11/2023 0:00	3/11/2023 1:00	1513.4
3/11/2023 1:00	3/11/2023 2:00	1475.7
3/11/2023 2:00	3/11/2023 3:00	1451.6
3/11/2023 3:00	3/11/2023 4:00	1439.3
3/11/2023 4:00	3/11/2023 5:00	1418.9
3/11/2023 5:00	3/11/2023 6:00	1421.8
3/11/2023 6:00	3/11/2023 7:00	1464.5
3/11/2023 7:00	3/11/2023 8:00	1522.5
3/11/2023 8:00	3/11/2023 9:00	1566.5
3/11/2023 9:00	3/11/2023 10:00	1512.7
3/11/2023 10:00	3/11/2023 11:00	1431.6
3/11/2023 11:00	3/11/2023 12:00	1382.2
3/11/2023 12:00	3/11/2023 13:00	1360.9
3/11/2023 13:00	3/11/2023 14:00	1286.8
3/11/2023 14:00	3/11/2023 15:00	1228.5
3/11/2023 15:00	3/11/2023 16:00	1197.6
3/11/2023 16:00	3/11/2023 17:00	1240.2
3/11/2023 17:00	3/11/2023 18:00	1325.8
3/11/2023 18:00	3/11/2023 19:00	1374.1
3/11/2023 19:00	3/11/2023 20:00	1364.6
3/11/2023 20:00	3/11/2023 21:00	1306.4
3/11/2023 21:00	3/11/2023 22:00	1276.1
3/11/2023 22:00	3/11/2023 23:00	1208.5
3/11/2023 23:00	3/12/2023 0:00	1180.5
3/12/2023 0:00	3/12/2023 1:00	1182.2
3/12/2023 1:00	3/12/2023 1:59	1183.1
3/12/2023 1:59	3/12/2023 4:00	1162.9
3/12/2023 4:00	3/12/2023 5:00	1141.8
3/12/2023 5:00	3/12/2023 6:00	1143.9
3/12/2023 6:00	3/12/2023 7:00	1164.5

Start Time	End Time	ANL_MW
3/12/2023 7:00	3/12/2023 8:00	1214.6
3/12/2023 8:00	3/12/2023 9:00	1280.4
3/12/2023 9:00	3/12/2023 10:00	1313.0
3/12/2023 10:00	3/12/2023 11:00	1260.2
3/12/2023 11:00	3/12/2023 12:00	1209.1
3/12/2023 12:00	3/12/2023 13:00	1125.8
3/12/2023 13:00	3/12/2023 14:00	1061.2
3/12/2023 14:00	3/12/2023 15:00	1062.0
3/12/2023 15:00	3/12/2023 16:00	1048.2
3/12/2023 16:00	3/12/2023 17:00	1085.2
3/12/2023 17:00	3/12/2023 18:00	1120.6
3/12/2023 18:00	3/12/2023 19:00	1172.3
3/12/2023 19:00	3/12/2023 20:00	1284.4
3/12/2023 20:00	3/12/2023 21:00	1304.3
3/12/2023 21:00	3/12/2023 22:00	1288.2
3/12/2023 22:00	3/12/2023 23:00	1228.2
3/12/2023 23:00	3/13/2023 0:00	1175.7
3/13/2023 0:00	3/13/2023 1:00	1140.9
3/13/2023 1:00	3/13/2023 2:00	1135.6
3/13/2023 2:00	3/13/2023 3:00	1129.7
3/13/2023 3:00	3/13/2023 4:00	1145.5
3/13/2023 4:00	3/13/2023 5:00	1184.4
3/13/2023 5:00	3/13/2023 6:00	1283.4
3/13/2023 6:00	3/13/2023 7:00	1405.4
3/13/2023 7:00	3/13/2023 8:00	1516.4
3/13/2023 8:00	3/13/2023 9:00	1546.4
3/13/2023 9:00	3/13/2023 10:00	1530.5
3/13/2023 10:00	3/13/2023 11:00	1464.2
3/13/2023 11:00	3/13/2023 12:00	1422.8
3/13/2023 12:00	3/13/2023 13:00	1381.3
3/13/2023 13:00	3/13/2023 14:00	1328.0
3/13/2023 14:00	3/13/2023 15:00	1291.3
3/13/2023 15:00	3/13/2023 16:00	1263.1
3/13/2023 16:00	3/13/2023 17:00	1286.0
3/13/2023 17:00	3/13/2023 18:00	1325.1
3/13/2023 18:00	3/13/2023 19:00	1337.2
3/13/2023 19:00	3/13/2023 20:00	1386.1
3/13/2023 20:00	3/13/2023 21:00	1414.7
3/13/2023 21:00	3/13/2023 22:00	1370.6
3/13/2023 22:00	3/13/2023 23:00	1281.7
3/13/2023 23:00	3/14/2023 0:00	1251.5
3/14/2023 0:00	3/14/2023 1:00	1247.1
3/14/2023 1:00	3/14/2023 2:00	1214.2
3/14/2023 2:00	3/14/2023 3:00	1177.7
3/14/2023 3:00	3/14/2023 4:00	1154.5
3/14/2023 4:00	3/14/2023 5:00	1140.0
3/14/2023 5:00	3/14/2023 6:00	1176.8
3/14/2023 6:00	3/14/2023 7:00	1289.5
3/14/2023 7:00	3/14/2023 8:00	1373.9
3/14/2023 8:00	3/14/2023 9:00	1398.8
3/14/2023 9:00	3/14/2023 10:00	1329.8
3/14/2023 10:00	3/14/2023 11:00	1270.6
3/14/2023 11:00	3/14/2023 12:00	1239.3
3/14/2023 12:00	3/14/2023 13:00	1197.3
3/14/2023 13:00	3/14/2023 14:00	1153.9
3/14/2023 14:00	3/14/2023 15:00	1109.2
3/14/2023 15:00	3/14/2023 16:00	1108.5
3/14/2023 16:00	3/14/2023 17:00	1154.2
3/14/2023 17:00	3/14/2023 18:00	1187.0
3/14/2023 18:00	3/14/2023 19:00	1159.3
3/14/2023 19:00	3/14/2023 20:00	1150.1
3/14/2023 20:00	3/14/2023 21:00	1146.2
3/14/2023 21:00	3/14/2023 22:00	1063.4
3/14/2023 22:00	3/14/2023 23:00	975.3
3/14/2023 23:00	3/15/2023 0:00	945.8
3/15/2023 0:00	3/15/2023 1:00	946.4
3/15/2023 1:00	3/15/2023 2:00	944.6
3/15/2023 2:00	3/15/2023 3:00	920.0
3/15/2023 3:00	3/15/2023 4:00	905.8
3/15/2023 4:00	3/15/2023 5:00	925.7

Start Time	End Time	ANL_MW
3/15/2023 5:00	3/15/2023 6:00	989.9
3/15/2023 6:00	3/15/2023 7:00	1081.5
3/15/2023 7:00	3/15/2023 8:00	1185.1
3/15/2023 8:00	3/15/2023 9:00	1227.5
3/15/2023 9:00	3/15/2023 10:00	1244.4
3/15/2023 10:00	3/15/2023 11:00	1276.8
3/15/2023 11:00	3/15/2023 12:00	1279.5
3/15/2023 12:00	3/15/2023 13:00	1240.0
3/15/2023 13:00	3/15/2023 14:00	1182.5
3/15/2023 14:00	3/15/2023 15:00	1133.0
3/15/2023 15:00	3/15/2023 16:00	1145.8
3/15/2023 16:00	3/15/2023 17:00	1197.4
3/15/2023 17:00	3/15/2023 18:00	1240.9
3/15/2023 18:00	3/15/2023 19:00	1241.6
3/15/2023 19:00	3/15/2023 20:00	1238.5
3/15/2023 20:00	3/15/2023 21:00	1243.0
3/15/2023 21:00	3/15/2023 22:00	1202.0
3/15/2023 22:00	3/15/2023 23:00	1110.3
3/15/2023 23:00	3/16/2023 0:00	1085.9
3/16/2023 0:00	3/16/2023 1:00	1083.9
3/16/2023 1:00	3/16/2023 2:00	1070.9
3/16/2023 2:00	3/16/2023 3:00	1040.8
3/16/2023 3:00	3/16/2023 4:00	1028.1
3/16/2023 4:00	3/16/2023 5:00	1051.4
3/16/2023 5:00	3/16/2023 6:00	1110.4
3/16/2023 6:00	3/16/2023 7:00	1215.1
3/16/2023 7:00	3/16/2023 8:00	1288.0
3/16/2023 8:00	3/16/2023 9:00	1323.7
3/16/2023 9:00	3/16/2023 10:00	1374.7
3/16/2023 10:00	3/16/2023 11:00	1374.6
3/16/2023 11:00	3/16/2023 12:00	1344.9
3/16/2023 12:00	3/16/2023 13:00	1337.8
3/16/2023 13:00	3/16/2023 14:00	1325.2
3/16/2023 14:00	3/16/2023 15:00	1301.0
3/16/2023 15:00	3/16/2023 16:00	1305.6
3/16/2023 16:00	3/16/2023 17:00	1331.1
3/16/2023 17:00	3/16/2023 18:00	1352.0
3/16/2023 18:00	3/16/2023 19:00	1351.4
3/16/2023 19:00	3/16/2023 20:00	1438.0
3/16/2023 20:00	3/16/2023 21:00	1431.2
3/16/2023 21:00	3/16/2023 22:00	1395.4
3/16/2023 22:00	3/16/2023 23:00	1361.0
3/16/2023 23:00	3/17/2023 0:00	1324.6
3/17/2023 0:00	3/17/2023 1:00	1283.6
3/17/2023 1:00	3/17/2023 2:00	1274.0
3/17/2023 2:00	3/17/2023 3:00	1270.2
3/17/2023 3:00	3/17/2023 4:00	1275.9
3/17/2023 4:00	3/17/2023 5:00	1288.9
3/17/2023 5:00	3/17/2023 6:00	1332.1
3/17/2023 6:00	3/17/2023 7:00	1387.9
3/17/2023 7:00	3/17/2023 8:00	1446.2
3/17/2023 8:00	3/17/2023 9:00	1477.9
3/17/2023 9:00	3/17/2023 10:00	1479.4
3/17/2023 10:00	3/17/2023 11:00	1444.7
3/17/2023 11:00	3/17/2023 12:00	1385.1
3/17/2023 12:00	3/17/2023 13:00	1376.9
3/17/2023 13:00	3/17/2023 14:00	1335.4
3/17/2023 14:00	3/17/2023 15:00	1288.7
3/17/2023 15:00	3/17/2023 16:00	1278.4
3/17/2023 16:00	3/17/2023 17:00	1319.8
3/17/2023 17:00	3/17/2023 18:00	1347.4
3/17/2023 18:00	3/17/2023 19:00	1369.4
3/17/2023 19:00	3/17/2023 20:00	1415.0
3/17/2023 20:00	3/17/2023 21:00	1406.4
3/17/2023 21:00	3/17/2023 22:00	1365.6
3/17/2023 22:00	3/17/2023 23:00	1334.0
3/17/2023 23:00	3/18/2023 0:00	1286.3
3/18/2023 0:00	3/18/2023 1:00	1245.1
3/18/2023 1:00	3/18/2023 2:00	1230.7
3/18/2023 2:00	3/18/2023 3:00	1208.9

Start Time	End Time	ANL_MW
3/18/2023 3:00	3/18/2023 4:00	1178.9
3/18/2023 4:00	3/18/2023 5:00	1117.3
3/18/2023 5:00	3/18/2023 6:00	1093.4
3/18/2023 6:00	3/18/2023 7:00	1154.9
3/18/2023 7:00	3/18/2023 8:00	1214.7
3/18/2023 8:00	3/18/2023 9:00	1305.3
3/18/2023 9:00	3/18/2023 10:00	1378.1
3/18/2023 10:00	3/18/2023 11:00	1424.0
3/18/2023 11:00	3/18/2023 12:00	1407.2
3/18/2023 12:00	3/18/2023 13:00	1376.0
3/18/2023 13:00	3/18/2023 14:00	1349.5
3/18/2023 14:00	3/18/2023 15:00	1327.2
3/18/2023 15:00	3/18/2023 16:00	1351.3
3/18/2023 16:00	3/18/2023 17:00	1393.2
3/18/2023 17:00	3/18/2023 18:00	1435.4
3/18/2023 18:00	3/18/2023 19:00	1437.9
3/18/2023 19:00	3/18/2023 20:00	1449.0
3/18/2023 20:00	3/18/2023 21:00	1443.6
3/18/2023 21:00	3/18/2023 22:00	1378.0
3/18/2023 22:00	3/18/2023 23:00	1329.0
3/18/2023 23:00	3/19/2023 0:00	1256.7
3/19/2023 0:00	3/19/2023 1:00	1187.8
3/19/2023 1:00	3/19/2023 2:00	1150.7
3/19/2023 2:00	3/19/2023 3:00	1095.2
3/19/2023 3:00	3/19/2023 4:00	1034.9
3/19/2023 4:00	3/19/2023 5:00	1052.5
3/19/2023 5:00	3/19/2023 6:00	1051.9
3/19/2023 6:00	3/19/2023 7:00	1080.9
3/19/2023 7:00	3/19/2023 8:00	1179.9
3/19/2023 8:00	3/19/2023 9:00	1229.9
3/19/2023 9:00	3/19/2023 10:00	1254.5
3/19/2023 10:00	3/19/2023 11:00	1195.5
3/19/2023 11:00	3/19/2023 12:00	1162.0
3/19/2023 12:00	3/19/2023 13:00	1121.6
3/19/2023 13:00	3/19/2023 14:00	1016.5
3/19/2023 14:00	3/19/2023 15:00	993.8
3/19/2023 15:00	3/19/2023 16:00	1054.0
3/19/2023 16:00	3/19/2023 17:00	1118.2
3/19/2023 17:00	3/19/2023 18:00	1153.2
3/19/2023 18:00	3/19/2023 19:00	1141.2
3/19/2023 19:00	3/19/2023 20:00	1177.7
3/19/2023 20:00	3/19/2023 21:00	1209.0
3/19/2023 21:00	3/19/2023 22:00	1236.0
3/19/2023 22:00	3/19/2023 23:00	1140.2
3/19/2023 23:00	3/20/2023 0:00	1049.1
3/20/2023 0:00	3/20/2023 1:00	989.4
3/20/2023 1:00	3/20/2023 2:00	1000.2
3/20/2023 2:00	3/20/2023 3:00	1022.1
3/20/2023 3:00	3/20/2023 4:00	1033.6
3/20/2023 4:00	3/20/2023 5:00	1057.5
3/20/2023 5:00	3/20/2023 6:00	1128.5
3/20/2023 6:00	3/20/2023 7:00	1288.0
3/20/2023 7:00	3/20/2023 8:00	1432.9
3/20/2023 8:00	3/20/2023 9:00	1424.0
3/20/2023 9:00	3/20/2023 10:00	1344.7
3/20/2023 10:00	3/20/2023 11:00	1270.6
3/20/2023 11:00	3/20/2023 12:00	1208.8
3/20/2023 12:00	3/20/2023 13:00	1172.9
3/20/2023 13:00	3/20/2023 14:00	1116.4
3/20/2023 14:00	3/20/2023 15:00	1062.8
3/20/2023 15:00	3/20/2023 16:00	1043.1
3/20/2023 16:00	3/20/2023 17:00	1066.0
3/20/2023 17:00	3/20/2023 18:00	1089.3
3/20/2023 18:00	3/20/2023 19:00	1123.2
3/20/2023 19:00	3/20/2023 20:00	1202.0
3/20/2023 20:00	3/20/2023 21:00	1219.7
3/20/2023 21:00	3/20/2023 22:00	1181.0
3/20/2023 22:00	3/20/2023 23:00	1148.0
3/20/2023 23:00	3/21/2023 0:00	1118.2
3/21/2023 0:00	3/21/2023 1:00	1143.5

Start Time	End Time	ANL_MW
3/21/2023 1:00	3/21/2023 2:00	1147.2
3/21/2023 2:00	3/21/2023 3:00	1179.8
3/21/2023 3:00	3/21/2023 4:00	1213.3
3/21/2023 4:00	3/21/2023 5:00	1269.8
3/21/2023 5:00	3/21/2023 6:00	1351.9
3/21/2023 6:00	3/21/2023 7:00	1516.4
3/21/2023 7:00	3/21/2023 8:00	1609.7
3/21/2023 8:00	3/21/2023 9:00	1590.4
3/21/2023 9:00	3/21/2023 10:00	1523.2
3/21/2023 10:00	3/21/2023 11:00	1458.4
3/21/2023 11:00	3/21/2023 12:00	1418.3
3/21/2023 12:00	3/21/2023 13:00	1358.3
3/21/2023 13:00	3/21/2023 14:00	1274.2
3/21/2023 14:00	3/21/2023 15:00	1243.6
3/21/2023 15:00	3/21/2023 16:00	1206.7
3/21/2023 16:00	3/21/2023 17:00	1270.0
3/21/2023 17:00	3/21/2023 18:00	1320.2
3/21/2023 18:00	3/21/2023 19:00	1368.9
3/21/2023 19:00	3/21/2023 20:00	1439.4
3/21/2023 20:00	3/21/2023 21:00	1442.6
3/21/2023 21:00	3/21/2023 22:00	1340.6
3/21/2023 22:00	3/21/2023 23:00	1236.8
3/21/2023 23:00	3/22/2023 0:00	1145.8
3/22/2023 0:00	3/22/2023 1:00	1126.3
3/22/2023 1:00	3/22/2023 2:00	1109.9
3/22/2023 2:00	3/22/2023 3:00	1094.1
3/22/2023 3:00	3/22/2023 4:00	1081.3
3/22/2023 4:00	3/22/2023 5:00	1114.6
3/22/2023 5:00	3/22/2023 6:00	1207.8
3/22/2023 6:00	3/22/2023 7:00	1379.0
3/22/2023 7:00	3/22/2023 8:00	1466.3
3/22/2023 8:00	3/22/2023 9:00	1480.6
3/22/2023 9:00	3/22/2023 10:00	1417.1
3/22/2023 10:00	3/22/2023 11:00	1338.7
3/22/2023 11:00	3/22/2023 12:00	1296.3
3/22/2023 12:00	3/22/2023 13:00	1270.1
3/22/2023 13:00	3/22/2023 14:00	1229.0
3/22/2023 14:00	3/22/2023 15:00	1184.7
3/22/2023 15:00	3/22/2023 16:00	1181.9
3/22/2023 16:00	3/22/2023 17:00	1254.5
3/22/2023 17:00	3/22/2023 18:00	1291.1
3/22/2023 18:00	3/22/2023 19:00	1335.1
3/22/2023 19:00	3/22/2023 20:00	1429.6
3/22/2023 20:00	3/22/2023 21:00	1475.4
3/22/2023 21:00	3/22/2023 22:00	1432.5
3/22/2023 22:00	3/22/2023 23:00	1365.1
3/22/2023 23:00	3/23/2023 0:00	1347.4
3/23/2023 0:00	3/23/2023 1:00	1368.3
3/23/2023 1:00	3/23/2023 2:00	1377.1
3/23/2023 2:00	3/23/2023 3:00	1381.6
3/23/2023 3:00	3/23/2023 4:00	1385.2
3/23/2023 4:00	3/23/2023 5:00	1390.3
3/23/2023 5:00	3/23/2023 6:00	1454.2
3/23/2023 6:00	3/23/2023 7:00	1493.1
3/23/2023 7:00	3/23/2023 8:00	1569.1
3/23/2023 8:00	3/23/2023 9:00	1574.7
3/23/2023 9:00	3/23/2023 10:00	1520.5
3/23/2023 10:00	3/23/2023 11:00	1421.3
3/23/2023 11:00	3/23/2023 12:00	1366.2
3/23/2023 12:00	3/23/2023 13:00	1404.5
3/23/2023 13:00	3/23/2023 14:00	1371.3
3/23/2023 14:00	3/23/2023 15:00	1309.3
3/23/2023 15:00	3/23/2023 16:00	1300.9
3/23/2023 16:00	3/23/2023 17:00	1290.3
3/23/2023 17:00	3/23/2023 18:00	1287.4
3/23/2023 18:00	3/23/2023 19:00	1243.0
3/23/2023 19:00	3/23/2023 20:00	1239.6
3/23/2023 20:00	3/23/2023 21:00	1206.5
3/23/2023 21:00	3/23/2023 22:00	1152.8
3/23/2023 22:00	3/23/2023 23:00	1059.8

Start Time	End Time	ANL_MW
3/23/2023 23:00	3/24/2023 0:00	1029.9
3/24/2023 0:00	3/24/2023 1:00	1002.4
3/24/2023 1:00	3/24/2023 2:00	972.1
3/24/2023 2:00	3/24/2023 3:00	989.5
3/24/2023 3:00	3/24/2023 4:00	997.0
3/24/2023 4:00	3/24/2023 5:00	1008.3
3/24/2023 5:00	3/24/2023 6:00	1045.8
3/24/2023 6:00	3/24/2023 7:00	1164.8
3/24/2023 7:00	3/24/2023 8:00	1264.5
3/24/2023 8:00	3/24/2023 9:00	1279.0
3/24/2023 9:00	3/24/2023 10:00	1258.6
3/24/2023 10:00	3/24/2023 11:00	1213.5
3/24/2023 11:00	3/24/2023 12:00	1195.3
3/24/2023 12:00	3/24/2023 13:00	1188.8
3/24/2023 13:00	3/24/2023 14:00	1183.2
3/24/2023 14:00	3/24/2023 15:00	1185.1
3/24/2023 15:00	3/24/2023 16:00	1214.8
3/24/2023 16:00	3/24/2023 17:00	1248.0
3/24/2023 17:00	3/24/2023 18:00	1250.5
3/24/2023 18:00	3/24/2023 19:00	1251.6
3/24/2023 19:00	3/24/2023 20:00	1298.7
3/24/2023 20:00	3/24/2023 21:00	1316.1
3/24/2023 21:00	3/24/2023 22:00	1264.8
3/24/2023 22:00	3/24/2023 23:00	1197.9
3/24/2023 23:00	3/25/2023 0:00	1158.6
3/25/2023 0:00	3/25/2023 1:00	1132.6
3/25/2023 1:00	3/25/2023 2:00	1113.4
3/25/2023 2:00	3/25/2023 3:00	1082.4
3/25/2023 3:00	3/25/2023 4:00	1090.5
3/25/2023 4:00	3/25/2023 5:00	1086.7
3/25/2023 5:00	3/25/2023 6:00	1133.1
3/25/2023 6:00	3/25/2023 7:00	1204.9
3/25/2023 7:00	3/25/2023 8:00	1266.5
3/25/2023 8:00	3/25/2023 9:00	1343.6
3/25/2023 9:00	3/25/2023 10:00	1374.6
3/25/2023 10:00	3/25/2023 11:00	1365.5
3/25/2023 11:00	3/25/2023 12:00	1338.5
3/25/2023 12:00	3/25/2023 13:00	1294.7
3/25/2023 13:00	3/25/2023 14:00	1233.7
3/25/2023 14:00	3/25/2023 15:00	1195.4
3/25/2023 15:00	3/25/2023 16:00	1181.5
3/25/2023 16:00	3/25/2023 17:00	1219.7
3/25/2023 17:00	3/25/2023 18:00	1309.1
3/25/2023 18:00	3/25/2023 19:00	1380.5
3/25/2023 19:00	3/25/2023 20:00	1447.0
3/25/2023 20:00	3/25/2023 21:00	1457.3
3/25/2023 21:00	3/25/2023 22:00	1407.6
3/25/2023 22:00	3/25/2023 23:00	1351.1
3/25/2023 23:00	3/26/2023 0:00	1320.3
3/26/2023 0:00	3/26/2023 1:00	1265.4
3/26/2023 1:00	3/26/2023 2:00	1224.6
3/26/2023 2:00	3/26/2023 3:00	1245.6
3/26/2023 3:00	3/26/2023 4:00	1252.1
3/26/2023 4:00	3/26/2023 5:00	1256.8
3/26/2023 5:00	3/26/2023 6:00	1264.8
3/26/2023 6:00	3/26/2023 7:00	1250.5
3/26/2023 7:00	3/26/2023 8:00	1267.4
3/26/2023 8:00	3/26/2023 9:00	1301.9
3/26/2023 9:00	3/26/2023 10:00	1348.4
3/26/2023 10:00	3/26/2023 11:00	1356.3
3/26/2023 11:00	3/26/2023 12:00	1378.0
3/26/2023 12:00	3/26/2023 13:00	1362.0
3/26/2023 13:00	3/26/2023 14:00	1348.6
3/26/2023 14:00	3/26/2023 15:00	1347.9
3/26/2023 15:00	3/26/2023 16:00	1321.6
3/26/2023 16:00	3/26/2023 17:00	1359.6
3/26/2023 17:00	3/26/2023 18:00	1375.9
3/26/2023 18:00	3/26/2023 19:00	1380.1
3/26/2023 19:00	3/26/2023 20:00	1425.0
3/26/2023 20:00	3/26/2023 21:00	1448.9

Start Time	End Time	ANL_MW
3/26/2023 21:00	3/26/2023 22:00	1421.9
3/26/2023 22:00	3/26/2023 23:00	1360.0
3/26/2023 23:00	3/27/2023 0:00	1258.3
3/27/2023 0:00	3/27/2023 1:00	1216.0
3/27/2023 1:00	3/27/2023 2:00	1204.8
3/27/2023 2:00	3/27/2023 3:00	1206.0
3/27/2023 3:00	3/27/2023 4:00	1201.6
3/27/2023 4:00	3/27/2023 5:00	1207.4
3/27/2023 5:00	3/27/2023 6:00	1242.4
3/27/2023 6:00	3/27/2023 7:00	1341.3
3/27/2023 7:00	3/27/2023 8:00	1462.0
3/27/2023 8:00	3/27/2023 9:00	1475.0
3/27/2023 9:00	3/27/2023 10:00	1419.3
3/27/2023 10:00	3/27/2023 11:00	1365.2
3/27/2023 11:00	3/27/2023 12:00	1321.5
3/27/2023 12:00	3/27/2023 13:00	1286.8
3/27/2023 13:00	3/27/2023 14:00	1262.3
3/27/2023 14:00	3/27/2023 15:00	1220.0
3/27/2023 15:00	3/27/2023 16:00	1195.8
3/27/2023 16:00	3/27/2023 17:00	1240.4
3/27/2023 17:00	3/27/2023 18:00	1288.2
3/27/2023 18:00	3/27/2023 19:00	1331.0
3/27/2023 19:00	3/27/2023 20:00	1384.7
3/27/2023 20:00	3/27/2023 21:00	1401.4
3/27/2023 21:00	3/27/2023 22:00	1356.0
3/27/2023 22:00	3/27/2023 23:00	1286.4
3/27/2023 23:00	3/28/2023 0:00	1250.9
3/28/2023 0:00	3/28/2023 1:00	1234.4
3/28/2023 1:00	3/28/2023 2:00	1210.6
3/28/2023 2:00	3/28/2023 3:00	1202.3
3/28/2023 3:00	3/28/2023 4:00	1209.7
3/28/2023 4:00	3/28/2023 5:00	1234.6
3/28/2023 5:00	3/28/2023 6:00	1290.7
3/28/2023 6:00	3/28/2023 7:00	1406.6
3/28/2023 7:00	3/28/2023 8:00	1528.6
3/28/2023 8:00	3/28/2023 9:00	1543.5
3/28/2023 9:00	3/28/2023 10:00	1506.8
3/28/2023 10:00	3/28/2023 11:00	1435.4
3/28/2023 11:00	3/28/2023 12:00	1361.0
3/28/2023 12:00	3/28/2023 13:00	1312.2
3/28/2023 13:00	3/28/2023 14:00	1265.7
3/28/2023 14:00	3/28/2023 15:00	1232.2
3/28/2023 15:00	3/28/2023 16:00	1220.4
3/28/2023 16:00	3/28/2023 17:00	1257.8
3/28/2023 17:00	3/28/2023 18:00	1312.2
3/28/2023 18:00	3/28/2023 19:00	1330.9
3/28/2023 19:00	3/28/2023 20:00	1367.8
3/28/2023 20:00	3/28/2023 21:00	1396.0
3/28/2023 21:00	3/28/2023 22:00	1354.8
3/28/2023 22:00	3/28/2023 23:00	1288.0
3/28/2023 23:00	3/29/2023 0:00	1247.0
3/29/2023 0:00	3/29/2023 1:00	1230.6
3/29/2023 1:00	3/29/2023 2:00	1220.8
3/29/2023 2:00	3/29/2023 3:00	1210.1
3/29/2023 3:00	3/29/2023 4:00	1205.7
3/29/2023 4:00	3/29/2023 5:00	1224.6
3/29/2023 5:00	3/29/2023 6:00	1279.4
3/29/2023 6:00	3/29/2023 7:00	1423.8
3/29/2023 7:00	3/29/2023 8:00	1542.6
3/29/2023 8:00	3/29/2023 9:00	1532.7
3/29/2023 9:00	3/29/2023 10:00	1464.9
3/29/2023 10:00	3/29/2023 11:00	1405.7
3/29/2023 11:00	3/29/2023 12:00	1361.8
3/29/2023 12:00	3/29/2023 13:00	1327.1
3/29/2023 13:00	3/29/2023 14:00	1296.2
3/29/2023 14:00	3/29/2023 15:00	1269.8
3/29/2023 15:00	3/29/2023 16:00	1272.0
3/29/2023 16:00	3/29/2023 17:00	1299.8
3/29/2023 17:00	3/29/2023 18:00	1329.5
3/29/2023 18:00	3/29/2023 19:00	1328.5

Start Time	End Time	ANL_MW
3/29/2023 19:00	3/29/2023 20:00	1379.7
3/29/2023 20:00	3/29/2023 21:00	1438.1
3/29/2023 21:00	3/29/2023 22:00	1404.2
3/29/2023 22:00	3/29/2023 23:00	1318.5
3/29/2023 23:00	3/30/2023 0:00	1252.4
3/30/2023 0:00	3/30/2023 1:00	1237.5
3/30/2023 1:00	3/30/2023 2:00	1230.8
3/30/2023 2:00	3/30/2023 3:00	1244.2
3/30/2023 3:00	3/30/2023 4:00	1215.4
3/30/2023 4:00	3/30/2023 5:00	1257.4
3/30/2023 5:00	3/30/2023 6:00	1295.2
3/30/2023 6:00	3/30/2023 7:00	1426.9
3/30/2023 7:00	3/30/2023 8:00	1533.0
3/30/2023 8:00	3/30/2023 9:00	1522.2
3/30/2023 9:00	3/30/2023 10:00	1424.5
3/30/2023 10:00	3/30/2023 11:00	1316.4
3/30/2023 11:00	3/30/2023 12:00	1215.9
3/30/2023 12:00	3/30/2023 13:00	1167.9
3/30/2023 13:00	3/30/2023 14:00	1140.0
3/30/2023 14:00	3/30/2023 15:00	1126.0
3/30/2023 15:00	3/30/2023 16:00	1192.5
3/30/2023 16:00	3/30/2023 17:00	1264.5
3/30/2023 17:00	3/30/2023 18:00	1315.9
3/30/2023 18:00	3/30/2023 19:00	1302.2
3/30/2023 19:00	3/30/2023 20:00	1369.6
3/30/2023 20:00	3/30/2023 21:00	1431.5
3/30/2023 21:00	3/30/2023 22:00	1330.5
3/30/2023 22:00	3/30/2023 23:00	1231.1
3/30/2023 23:00	3/31/2023 0:00	1187.5
3/31/2023 0:00	3/31/2023 1:00	1184.1
3/31/2023 1:00	3/31/2023 2:00	1173.6
3/31/2023 2:00	3/31/2023 3:00	1189.0
3/31/2023 3:00	3/31/2023 4:00	1204.2
3/31/2023 4:00	3/31/2023 5:00	1239.4
3/31/2023 5:00	3/31/2023 6:00	1325.1
3/31/2023 6:00	3/31/2023 7:00	1443.9
3/31/2023 7:00	3/31/2023 8:00	1513.7
3/31/2023 8:00	3/31/2023 9:00	1420.9
3/31/2023 9:00	3/31/2023 10:00	1360.3
3/31/2023 10:00	3/31/2023 11:00	1300.6
3/31/2023 11:00	3/31/2023 12:00	1259.4
3/31/2023 12:00	3/31/2023 13:00	1242.6
3/31/2023 13:00	3/31/2023 14:00	1227.9
3/31/2023 14:00	3/31/2023 15:00	1200.2
3/31/2023 15:00	3/31/2023 16:00	1231.7
3/31/2023 16:00	3/31/2023 17:00	1285.5
3/31/2023 17:00	3/31/2023 18:00	1342.9
3/31/2023 18:00	3/31/2023 19:00	1374.9
3/31/2023 19:00	3/31/2023 20:00	1391.0
3/31/2023 20:00	3/31/2023 21:00	1414.0
3/31/2023 21:00	3/31/2023 22:00	1370.1
3/31/2023 22:00	3/31/2023 23:00	1293.7
3/31/2023 23:00	4/1/2023 0:00	1237.9
4/1/2023 0:00	4/1/2023 1:00	1170.4
4/1/2023 1:00	4/1/2023 2:00	1112.0
4/1/2023 2:00	4/1/2023 3:00	1065.5
4/1/2023 3:00	4/1/2023 4:00	1058.4
4/1/2023 4:00	4/1/2023 5:00	1053.7
4/1/2023 5:00	4/1/2023 6:00	1080.8
4/1/2023 6:00	4/1/2023 7:00	1120.8
4/1/2023 7:00	4/1/2023 8:00	1214.4
4/1/2023 8:00	4/1/2023 9:00	1283.9
4/1/2023 9:00	4/1/2023 10:00	1318.8
4/1/2023 10:00	4/1/2023 11:00	1296.6
4/1/2023 11:00	4/1/2023 12:00	1268.0
4/1/2023 12:00	4/1/2023 13:00	1273.8
4/1/2023 13:00	4/1/2023 14:00	1246.2
4/1/2023 14:00	4/1/2023 15:00	1212.5
4/1/2023 15:00	4/1/2023 16:00	1244.4
4/1/2023 16:00	4/1/2023 17:00	1288.7

Start Time	End Time	ANL_MW
4/1/2023 17:00	4/1/2023 18:00	1314.2
4/1/2023 18:00	4/1/2023 19:00	1247.9
4/1/2023 19:00	4/1/2023 20:00	1197.5
4/1/2023 20:00	4/1/2023 21:00	1179.9
4/1/2023 21:00	4/1/2023 22:00	1148.1
4/1/2023 22:00	4/1/2023 23:00	1082.9
4/1/2023 23:00	4/2/2023 0:00	1069.2
4/2/2023 0:00	4/2/2023 1:00	1047.2
4/2/2023 1:00	4/2/2023 2:00	1060.3
4/2/2023 2:00	4/2/2023 3:00	1053.8
4/2/2023 3:00	4/2/2023 4:00	1057.3
4/2/2023 4:00	4/2/2023 5:00	1070.1
4/2/2023 5:00	4/2/2023 6:00	1049.8
4/2/2023 6:00	4/2/2023 7:00	1072.6
4/2/2023 7:00	4/2/2023 8:00	1087.5
4/2/2023 8:00	4/2/2023 9:00	1121.7
4/2/2023 9:00	4/2/2023 10:00	1133.1
4/2/2023 10:00	4/2/2023 11:00	1137.5
4/2/2023 11:00	4/2/2023 12:00	1083.0
4/2/2023 12:00	4/2/2023 13:00	1010.5
4/2/2023 13:00	4/2/2023 14:00	957.7
4/2/2023 14:00	4/2/2023 15:00	978.7
4/2/2023 15:00	4/2/2023 16:00	1009.4
4/2/2023 16:00	4/2/2023 17:00	992.5
4/2/2023 17:00	4/2/2023 18:00	1015.1
4/2/2023 18:00	4/2/2023 19:00	1032.8
4/2/2023 19:00	4/2/2023 20:00	1116.9
4/2/2023 20:00	4/2/2023 21:00	1172.3
4/2/2023 21:00	4/2/2023 22:00	1137.4
4/2/2023 22:00	4/2/2023 23:00	1041.0
4/2/2023 23:00	4/3/2023 0:00	1000.3
4/3/2023 0:00	4/3/2023 1:00	957.4
4/3/2023 1:00	4/3/2023 2:00	939.9
4/3/2023 2:00	4/3/2023 3:00	963.9
4/3/2023 3:00	4/3/2023 4:00	987.7
4/3/2023 4:00	4/3/2023 5:00	994.2
4/3/2023 5:00	4/3/2023 6:00	1058.1
4/3/2023 6:00	4/3/2023 7:00	1237.5
4/3/2023 7:00	4/3/2023 8:00	1379.3
4/3/2023 8:00	4/3/2023 9:00	1365.4
4/3/2023 9:00	4/3/2023 10:00	1293.0
4/3/2023 10:00	4/3/2023 11:00	1255.1
4/3/2023 11:00	4/3/2023 12:00	1247.2
4/3/2023 12:00	4/3/2023 13:00	1202.6
4/3/2023 13:00	4/3/2023 14:00	1130.0
4/3/2023 14:00	4/3/2023 15:00	1092.8
4/3/2023 15:00	4/3/2023 16:00	1103.7
4/3/2023 16:00	4/3/2023 17:00	1149.3
4/3/2023 17:00	4/3/2023 18:00	1182.6
4/3/2023 18:00	4/3/2023 19:00	1217.9
4/3/2023 19:00	4/3/2023 20:00	1247.9
4/3/2023 20:00	4/3/2023 21:00	1208.4
4/3/2023 21:00	4/3/2023 22:00	1134.9
4/3/2023 22:00	4/3/2023 23:00	1052.8
4/3/2023 23:00	4/4/2023 0:00	1016.4
4/4/2023 0:00	4/4/2023 1:00	959.9
4/4/2023 1:00	4/4/2023 2:00	968.4
4/4/2023 2:00	4/4/2023 3:00	929.4
4/4/2023 3:00	4/4/2023 4:00	903.4
4/4/2023 4:00	4/4/2023 5:00	929.4
4/4/2023 5:00	4/4/2023 6:00	968.7
4/4/2023 6:00	4/4/2023 7:00	1098.7
4/4/2023 7:00	4/4/2023 8:00	1160.9
4/4/2023 8:00	4/4/2023 9:00	1210.0
4/4/2023 9:00	4/4/2023 10:00	1233.5
4/4/2023 10:00	4/4/2023 11:00	1221.8
4/4/2023 11:00	4/4/2023 12:00	1199.8
4/4/2023 12:00	4/4/2023 13:00	1154.7
4/4/2023 13:00	4/4/2023 14:00	1095.4
4/4/2023 14:00	4/4/2023 15:00	1050.8

Start Time	End Time	ANL_MW
4/4/2023 15:00	4/4/2023 16:00	1030.1
4/4/2023 16:00	4/4/2023 17:00	1060.2
4/4/2023 17:00	4/4/2023 18:00	1130.8
4/4/2023 18:00	4/4/2023 19:00	1133.6
4/4/2023 19:00	4/4/2023 20:00	1141.8
4/4/2023 20:00	4/4/2023 21:00	1138.2
4/4/2023 21:00	4/4/2023 22:00	1080.2
4/4/2023 22:00	4/4/2023 23:00	1009.8
4/4/2023 23:00	4/5/2023 0:00	961.9
4/5/2023 0:00	4/5/2023 1:00	937.5
4/5/2023 1:00	4/5/2023 2:00	895.4
4/5/2023 2:00	4/5/2023 3:00	854.1
4/5/2023 3:00	4/5/2023 4:00	803.4
4/5/2023 4:00	4/5/2023 5:00	824.4
4/5/2023 5:00	4/5/2023 6:00	857.4
4/5/2023 6:00	4/5/2023 7:00	982.1
4/5/2023 7:00	4/5/2023 8:00	1115.6
4/5/2023 8:00	4/5/2023 9:00	1113.8
4/5/2023 9:00	4/5/2023 10:00	1135.6
4/5/2023 10:00	4/5/2023 11:00	1138.3
4/5/2023 11:00	4/5/2023 12:00	1138.7
4/5/2023 12:00	4/5/2023 13:00	1194.9
4/5/2023 13:00	4/5/2023 14:00	1214.7
4/5/2023 14:00	4/5/2023 15:00	1210.8
4/5/2023 15:00	4/5/2023 16:00	1226.0
4/5/2023 16:00	4/5/2023 17:00	1273.6
4/5/2023 17:00	4/5/2023 18:00	1342.2
4/5/2023 18:00	4/5/2023 19:00	1377.5
4/5/2023 19:00	4/5/2023 20:00	1406.2
4/5/2023 20:00	4/5/2023 21:00	1419.3
4/5/2023 21:00	4/5/2023 22:00	1365.1
4/5/2023 22:00	4/5/2023 23:00	1290.3
4/5/2023 23:00	4/6/2023 0:00	1243.7
4/6/2023 0:00	4/6/2023 1:00	1228.6
4/6/2023 1:00	4/6/2023 2:00	1208.0
4/6/2023 2:00	4/6/2023 3:00	1190.1
4/6/2023 3:00	4/6/2023 4:00	1173.5
4/6/2023 4:00	4/6/2023 5:00	1198.4
4/6/2023 5:00	4/6/2023 6:00	1245.3
4/6/2023 6:00	4/6/2023 7:00	1347.1
4/6/2023 7:00	4/6/2023 8:00	1465.8
4/6/2023 8:00	4/6/2023 9:00	1520.6
4/6/2023 9:00	4/6/2023 10:00	1527.6
4/6/2023 10:00	4/6/2023 11:00	1531.8
4/6/2023 11:00	4/6/2023 12:00	1502.1
4/6/2023 12:00	4/6/2023 13:00	1459.1
4/6/2023 13:00	4/6/2023 14:00	1447.0
4/6/2023 14:00	4/6/2023 15:00	1390.3
4/6/2023 15:00	4/6/2023 16:00	1343.7
4/6/2023 16:00	4/6/2023 17:00	1343.6
4/6/2023 17:00	4/6/2023 18:00	1352.4
4/6/2023 18:00	4/6/2023 19:00	1318.5
4/6/2023 19:00	4/6/2023 20:00	1327.7
4/6/2023 20:00	4/6/2023 21:00	1335.8
4/6/2023 21:00	4/6/2023 22:00	1282.3
4/6/2023 22:00	4/6/2023 23:00	1188.2
4/6/2023 23:00	4/7/2023 0:00	1147.8
4/7/2023 0:00	4/7/2023 1:00	1138.5
4/7/2023 1:00	4/7/2023 2:00	1082.3
4/7/2023 2:00	4/7/2023 3:00	1058.1
4/7/2023 3:00	4/7/2023 4:00	1010.5
4/7/2023 4:00	4/7/2023 5:00	960.8
4/7/2023 5:00	4/7/2023 6:00	938.7
4/7/2023 6:00	4/7/2023 7:00	982.6
4/7/2023 7:00	4/7/2023 8:00	1006.7
4/7/2023 8:00	4/7/2023 9:00	1043.9
4/7/2023 9:00	4/7/2023 10:00	1052.4
4/7/2023 10:00	4/7/2023 11:00	1001.2
4/7/2023 11:00	4/7/2023 12:00	962.8
4/7/2023 12:00	4/7/2023 13:00	955.6

Start Time	End Time	ANL_MW
4/7/2023 13:00	4/7/2023 14:00	923.9
4/7/2023 14:00	4/7/2023 15:00	888.9
4/7/2023 15:00	4/7/2023 16:00	894.4
4/7/2023 16:00	4/7/2023 17:00	954.4
4/7/2023 17:00	4/7/2023 18:00	1048.1
4/7/2023 18:00	4/7/2023 19:00	1052.2
4/7/2023 19:00	4/7/2023 20:00	987.8
4/7/2023 20:00	4/7/2023 21:00	971.1
4/7/2023 21:00	4/7/2023 22:00	946.5
4/7/2023 22:00	4/7/2023 23:00	904.8
4/7/2023 23:00	4/8/2023 0:00	901.7
4/8/2023 0:00	4/8/2023 1:00	889.5
4/8/2023 1:00	4/8/2023 2:00	884.7
4/8/2023 2:00	4/8/2023 3:00	890.0
4/8/2023 3:00	4/8/2023 4:00	904.2
4/8/2023 4:00	4/8/2023 5:00	955.9
4/8/2023 5:00	4/8/2023 6:00	1016.3
4/8/2023 6:00	4/8/2023 7:00	1076.3
4/8/2023 7:00	4/8/2023 8:00	1145.7
4/8/2023 8:00	4/8/2023 9:00	1196.1
4/8/2023 9:00	4/8/2023 10:00	1224.1
4/8/2023 10:00	4/8/2023 11:00	1238.5
4/8/2023 11:00	4/8/2023 12:00	1230.0
4/8/2023 12:00	4/8/2023 13:00	1231.6
4/8/2023 13:00	4/8/2023 14:00	1162.6
4/8/2023 14:00	4/8/2023 15:00	1096.7
4/8/2023 15:00	4/8/2023 16:00	1082.1
4/8/2023 16:00	4/8/2023 17:00	1094.1
4/8/2023 17:00	4/8/2023 18:00	1132.6
4/8/2023 18:00	4/8/2023 19:00	1149.7
4/8/2023 19:00	4/8/2023 20:00	1232.6
4/8/2023 20:00	4/8/2023 21:00	1340.0
4/8/2023 21:00	4/8/2023 22:00	1328.0
4/8/2023 22:00	4/8/2023 23:00	1306.2
4/8/2023 23:00	4/9/2023 0:00	1250.0
4/9/2023 0:00	4/9/2023 1:00	1215.6
4/9/2023 1:00	4/9/2023 2:00	1202.5
4/9/2023 2:00	4/9/2023 3:00	1203.9
4/9/2023 3:00	4/9/2023 4:00	1189.1
4/9/2023 4:00	4/9/2023 5:00	1193.6
4/9/2023 5:00	4/9/2023 6:00	1212.7
4/9/2023 6:00	4/9/2023 7:00	1275.0
4/9/2023 7:00	4/9/2023 8:00	1373.9
4/9/2023 8:00	4/9/2023 9:00	1411.0
4/9/2023 9:00	4/9/2023 10:00	1367.1
4/9/2023 10:00	4/9/2023 11:00	1289.3
4/9/2023 11:00	4/9/2023 12:00	1223.6
4/9/2023 12:00	4/9/2023 13:00	1172.1
4/9/2023 13:00	4/9/2023 14:00	1109.8
4/9/2023 14:00	4/9/2023 15:00	1052.8
4/9/2023 15:00	4/9/2023 16:00	1048.2
4/9/2023 16:00	4/9/2023 17:00	1081.5
4/9/2023 17:00	4/9/2023 18:00	1105.0
4/9/2023 18:00	4/9/2023 19:00	1145.2
4/9/2023 19:00	4/9/2023 20:00	1232.7
4/9/2023 20:00	4/9/2023 21:00	1278.9
4/9/2023 21:00	4/9/2023 22:00	1185.6
4/9/2023 22:00	4/9/2023 23:00	1081.1
4/9/2023 23:00	4/10/2023 0:00	969.0
4/10/2023 0:00	4/10/2023 1:00	911.7
4/10/2023 1:00	4/10/2023 2:00	881.4
4/10/2023 2:00	4/10/2023 3:00	883.1
4/10/2023 3:00	4/10/2023 4:00	906.8
4/10/2023 4:00	4/10/2023 5:00	923.6
4/10/2023 5:00	4/10/2023 6:00	974.8
4/10/2023 6:00	4/10/2023 7:00	1065.8
4/10/2023 7:00	4/10/2023 8:00	1145.1
4/10/2023 8:00	4/10/2023 9:00	1202.0
4/10/2023 9:00	4/10/2023 10:00	1228.3
4/10/2023 10:00	4/10/2023 11:00	1199.7

Start Time	End Time	ANL_MW
4/10/2023 11:00	4/10/2023 12:00	1160.1
4/10/2023 12:00	4/10/2023 13:00	1092.7
4/10/2023 13:00	4/10/2023 14:00	1033.2
4/10/2023 14:00	4/10/2023 15:00	976.8
4/10/2023 15:00	4/10/2023 16:00	941.2
4/10/2023 16:00	4/10/2023 17:00	933.8
4/10/2023 17:00	4/10/2023 18:00	967.5
4/10/2023 18:00	4/10/2023 19:00	970.8
4/10/2023 19:00	4/10/2023 20:00	999.1
4/10/2023 20:00	4/10/2023 21:00	990.8
4/10/2023 21:00	4/10/2023 22:00	886.6
4/10/2023 22:00	4/10/2023 23:00	805.4
4/10/2023 23:00	4/11/2023 0:00	792.5
4/11/2023 0:00	4/11/2023 1:00	797.5
4/11/2023 1:00	4/11/2023 2:00	789.5
4/11/2023 2:00	4/11/2023 3:00	775.2
4/11/2023 3:00	4/11/2023 4:00	774.0
4/11/2023 4:00	4/11/2023 5:00	775.0
4/11/2023 5:00	4/11/2023 6:00	828.6
4/11/2023 6:00	4/11/2023 7:00	971.0
4/11/2023 7:00	4/11/2023 8:00	1092.3
4/11/2023 8:00	4/11/2023 9:00	1126.0
4/11/2023 9:00	4/11/2023 10:00	1122.0
4/11/2023 10:00	4/11/2023 11:00	1090.4
4/11/2023 11:00	4/11/2023 12:00	1034.9
4/11/2023 12:00	4/11/2023 13:00	951.4
4/11/2023 13:00	4/11/2023 14:00	838.6
4/11/2023 14:00	4/11/2023 15:00	736.8
4/11/2023 15:00	4/11/2023 16:00	686.7
4/11/2023 16:00	4/11/2023 17:00	702.7
4/11/2023 17:00	4/11/2023 18:00	752.5
4/11/2023 18:00	4/11/2023 19:00	779.3
4/11/2023 19:00	4/11/2023 20:00	846.8
4/11/2023 20:00	4/11/2023 21:00	861.2
4/11/2023 21:00	4/11/2023 22:00	807.5
4/11/2023 22:00	4/11/2023 23:00	709.0
4/11/2023 23:00	4/12/2023 0:00	657.8
4/12/2023 0:00	4/12/2023 1:00	619.6
4/12/2023 1:00	4/12/2023 2:00	591.0
4/12/2023 2:00	4/12/2023 3:00	595.5
4/12/2023 3:00	4/12/2023 4:00	571.8
4/12/2023 4:00	4/12/2023 5:00	645.2
4/12/2023 5:00	4/12/2023 6:00	717.7
4/12/2023 6:00	4/12/2023 7:00	828.2
4/12/2023 7:00	4/12/2023 8:00	898.5
4/12/2023 8:00	4/12/2023 9:00	914.0
4/12/2023 9:00	4/12/2023 10:00	898.6
4/12/2023 10:00	4/12/2023 11:00	875.8
4/12/2023 11:00	4/12/2023 12:00	866.7
4/12/2023 12:00	4/12/2023 13:00	792.8
4/12/2023 13:00	4/12/2023 14:00	758.6
4/12/2023 14:00	4/12/2023 15:00	739.5
4/12/2023 15:00	4/12/2023 16:00	778.5
4/12/2023 16:00	4/12/2023 17:00	791.2
4/12/2023 17:00	4/12/2023 18:00	836.2
4/12/2023 18:00	4/12/2023 19:00	859.1
4/12/2023 19:00	4/12/2023 20:00	890.0
4/12/2023 20:00	4/12/2023 21:00	874.5
4/12/2023 21:00	4/12/2023 22:00	867.1
4/12/2023 22:00	4/12/2023 23:00	853.3
4/12/2023 23:00	4/13/2023 0:00	837.2
4/13/2023 0:00	4/13/2023 1:00	834.4
4/13/2023 1:00	4/13/2023 2:00	797.2
4/13/2023 2:00	4/13/2023 3:00	777.4
4/13/2023 3:00	4/13/2023 4:00	779.7
4/13/2023 4:00	4/13/2023 5:00	807.3
4/13/2023 5:00	4/13/2023 6:00	879.9
4/13/2023 6:00	4/13/2023 7:00	1030.2
4/13/2023 7:00	4/13/2023 8:00	1149.7
4/13/2023 8:00	4/13/2023 9:00	1165.7

Start Time	End Time	ANL_MW
4/13/2023 9:00	4/13/2023 10:00	1100.2
4/13/2023 10:00	4/13/2023 11:00	1029.2
4/13/2023 11:00	4/13/2023 12:00	990.5
4/13/2023 12:00	4/13/2023 13:00	964.2
4/13/2023 13:00	4/13/2023 14:00	927.2
4/13/2023 14:00	4/13/2023 15:00	889.9
4/13/2023 15:00	4/13/2023 16:00	889.6
4/13/2023 16:00	4/13/2023 17:00	914.2
4/13/2023 17:00	4/13/2023 18:00	901.9
4/13/2023 18:00	4/13/2023 19:00	915.2
4/13/2023 19:00	4/13/2023 20:00	879.3
4/13/2023 20:00	4/13/2023 21:00	833.5
4/13/2023 21:00	4/13/2023 22:00	810.5
4/13/2023 22:00	4/13/2023 23:00	751.0
4/13/2023 23:00	4/14/2023 0:00	688.5
4/14/2023 0:00	4/14/2023 1:00	610.0
4/14/2023 1:00	4/14/2023 2:00	616.8
4/14/2023 2:00	4/14/2023 3:00	611.3
4/14/2023 3:00	4/14/2023 4:00	603.5
4/14/2023 4:00	4/14/2023 5:00	614.1
4/14/2023 5:00	4/14/2023 6:00	666.5
4/14/2023 6:00	4/14/2023 7:00	802.3
4/14/2023 7:00	4/14/2023 8:00	926.6
4/14/2023 8:00	4/14/2023 9:00	1015.1
4/14/2023 9:00	4/14/2023 10:00	963.5
4/14/2023 10:00	4/14/2023 11:00	889.8
4/14/2023 11:00	4/14/2023 12:00	856.4
4/14/2023 12:00	4/14/2023 13:00	823.9
4/14/2023 13:00	4/14/2023 14:00	794.0
4/14/2023 14:00	4/14/2023 15:00	820.3
4/14/2023 15:00	4/14/2023 16:00	837.2
4/14/2023 16:00	4/14/2023 17:00	904.3
4/14/2023 17:00	4/14/2023 18:00	983.7
4/14/2023 18:00	4/14/2023 19:00	979.8
4/14/2023 19:00	4/14/2023 20:00	1036.3
4/14/2023 20:00	4/14/2023 21:00	1078.9
4/14/2023 21:00	4/14/2023 22:00	1066.8
4/14/2023 22:00	4/14/2023 23:00	1002.0
4/14/2023 23:00	4/15/2023 0:00	1021.1
4/15/2023 0:00	4/15/2023 1:00	1014.6
4/15/2023 1:00	4/15/2023 2:00	981.1
4/15/2023 2:00	4/15/2023 3:00	968.6
4/15/2023 3:00	4/15/2023 4:00	982.3
4/15/2023 4:00	4/15/2023 5:00	1015.9
4/15/2023 5:00	4/15/2023 6:00	1056.8
4/15/2023 6:00	4/15/2023 7:00	1049.5
4/15/2023 7:00	4/15/2023 8:00	1068.7
4/15/2023 8:00	4/15/2023 9:00	1102.0
4/15/2023 9:00	4/15/2023 10:00	1101.0
4/15/2023 10:00	4/15/2023 11:00	1064.4
4/15/2023 11:00	4/15/2023 12:00	1039.5
4/15/2023 12:00	4/15/2023 13:00	1010.1
4/15/2023 13:00	4/15/2023 14:00	1013.4
4/15/2023 14:00	4/15/2023 15:00	1013.8
4/15/2023 15:00	4/15/2023 16:00	1017.9
4/15/2023 16:00	4/15/2023 17:00	1041.5
4/15/2023 17:00	4/15/2023 18:00	1089.0
4/15/2023 18:00	4/15/2023 19:00	1095.8
4/15/2023 19:00	4/15/2023 20:00	1098.0
4/15/2023 20:00	4/15/2023 21:00	1097.7
4/15/2023 21:00	4/15/2023 22:00	1043.0
4/15/2023 22:00	4/15/2023 23:00	969.9
4/15/2023 23:00	4/16/2023 0:00	926.7
4/16/2023 0:00	4/16/2023 1:00	885.4
4/16/2023 1:00	4/16/2023 2:00	838.0
4/16/2023 2:00	4/16/2023 3:00	859.8
4/16/2023 3:00	4/16/2023 4:00	888.6
4/16/2023 4:00	4/16/2023 5:00	896.4
4/16/2023 5:00	4/16/2023 6:00	918.8
4/16/2023 6:00	4/16/2023 7:00	943.0

Start Time	End Time	ANL_MW
4/16/2023 7:00	4/16/2023 8:00	927.4
4/16/2023 8:00	4/16/2023 9:00	1005.0
4/16/2023 9:00	4/16/2023 10:00	1067.0
4/16/2023 10:00	4/16/2023 11:00	1101.7
4/16/2023 11:00	4/16/2023 12:00	1118.3
4/16/2023 12:00	4/16/2023 13:00	1093.1
4/16/2023 13:00	4/16/2023 14:00	1034.2
4/16/2023 14:00	4/16/2023 15:00	999.5
4/16/2023 15:00	4/16/2023 16:00	1000.9
4/16/2023 16:00	4/16/2023 17:00	1047.2
4/16/2023 17:00	4/16/2023 18:00	1085.4
4/16/2023 18:00	4/16/2023 19:00	1090.6
4/16/2023 19:00	4/16/2023 20:00	1091.5
4/16/2023 20:00	4/16/2023 21:00	1115.8
4/16/2023 21:00	4/16/2023 22:00	1029.6
4/16/2023 22:00	4/16/2023 23:00	945.8
4/16/2023 23:00	4/17/2023 0:00	895.1
4/17/2023 0:00	4/17/2023 1:00	862.5
4/17/2023 1:00	4/17/2023 2:00	829.0
4/17/2023 2:00	4/17/2023 3:00	816.4
4/17/2023 3:00	4/17/2023 4:00	803.0
4/17/2023 4:00	4/17/2023 5:00	828.9
4/17/2023 5:00	4/17/2023 6:00	895.7
4/17/2023 6:00	4/17/2023 7:00	1030.0
4/17/2023 7:00	4/17/2023 8:00	1154.7
4/17/2023 8:00	4/17/2023 9:00	1190.8
4/17/2023 9:00	4/17/2023 10:00	1191.4
4/17/2023 10:00	4/17/2023 11:00	1178.7
4/17/2023 11:00	4/17/2023 12:00	1155.5
4/17/2023 12:00	4/17/2023 13:00	1119.5
4/17/2023 13:00	4/17/2023 14:00	1064.0
4/17/2023 14:00	4/17/2023 15:00	1007.9
4/17/2023 15:00	4/17/2023 16:00	985.2
4/17/2023 16:00	4/17/2023 17:00	993.9
4/17/2023 17:00	4/17/2023 18:00	1058.5
4/17/2023 18:00	4/17/2023 19:00	1050.6
4/17/2023 19:00	4/17/2023 20:00	1061.8
4/17/2023 20:00	4/17/2023 21:00	1088.1
4/17/2023 21:00	4/17/2023 22:00	1008.4
4/17/2023 22:00	4/17/2023 23:00	911.7
4/17/2023 23:00	4/18/2023 0:00	844.3
4/18/2023 0:00	4/18/2023 1:00	786.1
4/18/2023 1:00	4/18/2023 2:00	727.9
4/18/2023 2:00	4/18/2023 3:00	705.1
4/18/2023 3:00	4/18/2023 4:00	687.5
4/18/2023 4:00	4/18/2023 5:00	686.1
4/18/2023 5:00	4/18/2023 6:00	734.3
4/18/2023 6:00	4/18/2023 7:00	878.0
4/18/2023 7:00	4/18/2023 8:00	987.9
4/18/2023 8:00	4/18/2023 9:00	1015.8
4/18/2023 9:00	4/18/2023 10:00	1027.4
4/18/2023 10:00	4/18/2023 11:00	1037.0
4/18/2023 11:00	4/18/2023 12:00	1036.4
4/18/2023 12:00	4/18/2023 13:00	1001.2
4/18/2023 13:00	4/18/2023 14:00	969.9
4/18/2023 14:00	4/18/2023 15:00	898.3
4/18/2023 15:00	4/18/2023 16:00	883.7
4/18/2023 16:00	4/18/2023 17:00	903.7
4/18/2023 17:00	4/18/2023 18:00	920.2
4/18/2023 18:00	4/18/2023 19:00	919.3
4/18/2023 19:00	4/18/2023 20:00	913.8
4/18/2023 20:00	4/18/2023 21:00	932.3
4/18/2023 21:00	4/18/2023 22:00	925.2
4/18/2023 22:00	4/18/2023 23:00	837.6
4/18/2023 23:00	4/19/2023 0:00	763.7
4/19/2023 0:00	4/19/2023 1:00	745.5
4/19/2023 1:00	4/19/2023 2:00	751.6
4/19/2023 2:00	4/19/2023 3:00	762.4
4/19/2023 3:00	4/19/2023 4:00	788.0
4/19/2023 4:00	4/19/2023 5:00	836.6

Start Time	End Time	ANL_MW
4/19/2023 5:00	4/19/2023 6:00	900.7
4/19/2023 6:00	4/19/2023 7:00	1041.1
4/19/2023 7:00	4/19/2023 8:00	1180.9
4/19/2023 8:00	4/19/2023 9:00	1192.8
4/19/2023 9:00	4/19/2023 10:00	1162.2
4/19/2023 10:00	4/19/2023 11:00	1139.3
4/19/2023 11:00	4/19/2023 12:00	1131.7
4/19/2023 12:00	4/19/2023 13:00	1099.6
4/19/2023 13:00	4/19/2023 14:00	1039.0
4/19/2023 14:00	4/19/2023 15:00	956.8
4/19/2023 15:00	4/19/2023 16:00	948.0
4/19/2023 16:00	4/19/2023 17:00	1064.6
4/19/2023 17:00	4/19/2023 18:00	1172.8
4/19/2023 18:00	4/19/2023 19:00	1171.7
4/19/2023 19:00	4/19/2023 20:00	1196.8
4/19/2023 20:00	4/19/2023 21:00	1190.0
4/19/2023 21:00	4/19/2023 22:00	1109.7
4/19/2023 22:00	4/19/2023 23:00	1023.0
4/19/2023 23:00	4/20/2023 0:00	975.8
4/20/2023 0:00	4/20/2023 1:00	928.8
4/20/2023 1:00	4/20/2023 2:00	908.7
4/20/2023 2:00	4/20/2023 3:00	877.5
4/20/2023 3:00	4/20/2023 4:00	857.4
4/20/2023 4:00	4/20/2023 5:00	866.4
4/20/2023 5:00	4/20/2023 6:00	885.7
4/20/2023 6:00	4/20/2023 7:00	1006.1
4/20/2023 7:00	4/20/2023 8:00	1095.6
4/20/2023 8:00	4/20/2023 9:00	1155.3
4/20/2023 9:00	4/20/2023 10:00	1126.5
4/20/2023 10:00	4/20/2023 11:00	1087.7
4/20/2023 11:00	4/20/2023 12:00	1036.8
4/20/2023 12:00	4/20/2023 13:00	998.3
4/20/2023 13:00	4/20/2023 14:00	983.1
4/20/2023 14:00	4/20/2023 15:00	941.7
4/20/2023 15:00	4/20/2023 16:00	942.7
4/20/2023 16:00	4/20/2023 17:00	976.3
4/20/2023 17:00	4/20/2023 18:00	1022.7
4/20/2023 18:00	4/20/2023 19:00	1076.0
4/20/2023 19:00	4/20/2023 20:00	1089.5
4/20/2023 20:00	4/20/2023 21:00	1111.0
4/20/2023 21:00	4/20/2023 22:00	1057.8
4/20/2023 22:00	4/20/2023 23:00	966.9
4/20/2023 23:00	4/21/2023 0:00	914.5
4/21/2023 0:00	4/21/2023 1:00	860.8
4/21/2023 1:00	4/21/2023 2:00	805.1
4/21/2023 2:00	4/21/2023 3:00	775.4
4/21/2023 3:00	4/21/2023 4:00	786.4
4/21/2023 4:00	4/21/2023 5:00	836.0
4/21/2023 5:00	4/21/2023 6:00	917.7
4/21/2023 6:00	4/21/2023 7:00	1017.0
4/21/2023 7:00	4/21/2023 8:00	1151.5
4/21/2023 8:00	4/21/2023 9:00	1115.0
4/21/2023 9:00	4/21/2023 10:00	1037.8
4/21/2023 10:00	4/21/2023 11:00	1002.1
4/21/2023 11:00	4/21/2023 12:00	986.8
4/21/2023 12:00	4/21/2023 13:00	968.5
4/21/2023 13:00	4/21/2023 14:00	920.6
4/21/2023 14:00	4/21/2023 15:00	927.6
4/21/2023 15:00	4/21/2023 16:00	956.0
4/21/2023 16:00	4/21/2023 17:00	987.7
4/21/2023 17:00	4/21/2023 18:00	1030.8
4/21/2023 18:00	4/21/2023 19:00	1026.1
4/21/2023 19:00	4/21/2023 20:00	1028.6
4/21/2023 20:00	4/21/2023 21:00	1058.8
4/21/2023 21:00	4/21/2023 22:00	1060.0
4/21/2023 22:00	4/21/2023 23:00	1059.2
4/21/2023 23:00	4/22/2023 0:00	1068.2
4/22/2023 0:00	4/22/2023 1:00	1067.0
4/22/2023 1:00	4/22/2023 2:00	1059.8
4/22/2023 2:00	4/22/2023 3:00	1043.1

Start Time	End Time	ANL_MW
4/22/2023 3:00	4/22/2023 4:00	1030.0
4/22/2023 4:00	4/22/2023 5:00	1033.5
4/22/2023 5:00	4/22/2023 6:00	1058.1
4/22/2023 6:00	4/22/2023 7:00	1053.1
4/22/2023 7:00	4/22/2023 8:00	1113.0
4/22/2023 8:00	4/22/2023 9:00	1139.0
4/22/2023 9:00	4/22/2023 10:00	1104.1
4/22/2023 10:00	4/22/2023 11:00	1069.0
4/22/2023 11:00	4/22/2023 12:00	1032.0
4/22/2023 12:00	4/22/2023 13:00	979.8
4/22/2023 13:00	4/22/2023 14:00	928.4
4/22/2023 14:00	4/22/2023 15:00	865.0
4/22/2023 15:00	4/22/2023 16:00	844.0
4/22/2023 16:00	4/22/2023 17:00	868.7
4/22/2023 17:00	4/22/2023 18:00	908.9
4/22/2023 18:00	4/22/2023 19:00	927.0
4/22/2023 19:00	4/22/2023 20:00	962.9
4/22/2023 20:00	4/22/2023 21:00	1081.0
4/22/2023 21:00	4/22/2023 22:00	1081.3
4/22/2023 22:00	4/22/2023 23:00	1026.5
4/22/2023 23:00	4/23/2023 0:00	975.9
4/23/2023 0:00	4/23/2023 1:00	935.1
4/23/2023 1:00	4/23/2023 2:00	926.4
4/23/2023 2:00	4/23/2023 3:00	919.2
4/23/2023 3:00	4/23/2023 4:00	945.1
4/23/2023 4:00	4/23/2023 5:00	965.9
4/23/2023 5:00	4/23/2023 6:00	990.0
4/23/2023 6:00	4/23/2023 7:00	990.8
4/23/2023 7:00	4/23/2023 8:00	1080.4
4/23/2023 8:00	4/23/2023 9:00	1159.5
4/23/2023 9:00	4/23/2023 10:00	1184.2
4/23/2023 10:00	4/23/2023 11:00	1167.7
4/23/2023 11:00	4/23/2023 12:00	1122.0
4/23/2023 12:00	4/23/2023 13:00	1069.8
4/23/2023 13:00	4/23/2023 14:00	1007.0
4/23/2023 14:00	4/23/2023 15:00	951.7
4/23/2023 15:00	4/23/2023 16:00	933.4
4/23/2023 16:00	4/23/2023 17:00	957.7
4/23/2023 17:00	4/23/2023 18:00	991.2
4/23/2023 18:00	4/23/2023 19:00	1022.1
4/23/2023 19:00	4/23/2023 20:00	1044.7
4/23/2023 20:00	4/23/2023 21:00	1079.4
4/23/2023 21:00	4/23/2023 22:00	1047.1
4/23/2023 22:00	4/23/2023 23:00	986.0
4/23/2023 23:00	4/24/2023 0:00	929.6
4/24/2023 0:00	4/24/2023 1:00	890.0
4/24/2023 1:00	4/24/2023 2:00	893.6
4/24/2023 2:00	4/24/2023 3:00	892.4
4/24/2023 3:00	4/24/2023 4:00	894.5
4/24/2023 4:00	4/24/2023 5:00	931.9
4/24/2023 5:00	4/24/2023 6:00	1011.0
4/24/2023 6:00	4/24/2023 7:00	1144.5
4/24/2023 7:00	4/24/2023 8:00	1260.3
4/24/2023 8:00	4/24/2023 9:00	1284.7
4/24/2023 9:00	4/24/2023 10:00	1244.9
4/24/2023 10:00	4/24/2023 11:00	1202.8
4/24/2023 11:00	4/24/2023 12:00	1172.1
4/24/2023 12:00	4/24/2023 13:00	1141.1
4/24/2023 13:00	4/24/2023 14:00	1097.4
4/24/2023 14:00	4/24/2023 15:00	1058.0
4/24/2023 15:00	4/24/2023 16:00	1051.5
4/24/2023 16:00	4/24/2023 17:00	1073.9
4/24/2023 17:00	4/24/2023 18:00	1104.2
4/24/2023 18:00	4/24/2023 19:00	1097.5
4/24/2023 19:00	4/24/2023 20:00	1135.4
4/24/2023 20:00	4/24/2023 21:00	1182.9
4/24/2023 21:00	4/24/2023 22:00	1148.1
4/24/2023 22:00	4/24/2023 23:00	1063.1
4/24/2023 23:00	4/25/2023 0:00	1016.3
4/25/2023 0:00	4/25/2023 1:00	995.7

Start Time	End Time	ANL_MW
4/25/2023 1:00	4/25/2023 2:00	974.1
4/25/2023 2:00	4/25/2023 3:00	960.5
4/25/2023 3:00	4/25/2023 4:00	954.0
4/25/2023 4:00	4/25/2023 5:00	971.1
4/25/2023 5:00	4/25/2023 6:00	1026.5
4/25/2023 6:00	4/25/2023 7:00	1144.1
4/25/2023 7:00	4/25/2023 8:00	1268.2
4/25/2023 8:00	4/25/2023 9:00	1294.4
4/25/2023 9:00	4/25/2023 10:00	1276.9
4/25/2023 10:00	4/25/2023 11:00	1260.7
4/25/2023 11:00	4/25/2023 12:00	1231.5
4/25/2023 12:00	4/25/2023 13:00	1186.4
4/25/2023 13:00	4/25/2023 14:00	1137.9
4/25/2023 14:00	4/25/2023 15:00	1089.0
4/25/2023 15:00	4/25/2023 16:00	1071.4
4/25/2023 16:00	4/25/2023 17:00	1085.4
4/25/2023 17:00	4/25/2023 18:00	1108.2
4/25/2023 18:00	4/25/2023 19:00	1098.7
4/25/2023 19:00	4/25/2023 20:00	1116.0
4/25/2023 20:00	4/25/2023 21:00	1169.2
4/25/2023 21:00	4/25/2023 22:00	1166.4
4/25/2023 22:00	4/25/2023 23:00	1098.0
4/25/2023 23:00	4/26/2023 0:00	1044.5
4/26/2023 0:00	4/26/2023 1:00	1022.5
4/26/2023 1:00	4/26/2023 2:00	1009.9
4/26/2023 2:00	4/26/2023 3:00	1003.0
4/26/2023 3:00	4/26/2023 4:00	1012.7
4/26/2023 4:00	4/26/2023 5:00	1042.8
4/26/2023 5:00	4/26/2023 6:00	1111.3
4/26/2023 6:00	4/26/2023 7:00	1233.2
4/26/2023 7:00	4/26/2023 8:00	1314.3
4/26/2023 8:00	4/26/2023 9:00	1286.3
4/26/2023 9:00	4/26/2023 10:00	1221.8
4/26/2023 10:00	4/26/2023 11:00	1175.9
4/26/2023 11:00	4/26/2023 12:00	1141.2
4/26/2023 12:00	4/26/2023 13:00	1116.1
4/26/2023 13:00	4/26/2023 14:00	1096.8
4/26/2023 14:00	4/26/2023 15:00	1077.3
4/26/2023 15:00	4/26/2023 16:00	1090.8
4/26/2023 16:00	4/26/2023 17:00	1136.8
4/26/2023 17:00	4/26/2023 18:00	1171.2
4/26/2023 18:00	4/26/2023 19:00	1170.2
4/26/2023 19:00	4/26/2023 20:00	1180.6
4/26/2023 20:00	4/26/2023 21:00	1209.8
4/26/2023 21:00	4/26/2023 22:00	1169.4
4/26/2023 22:00	4/26/2023 23:00	1085.4
4/26/2023 23:00	4/27/2023 0:00	1028.5
4/27/2023 0:00	4/27/2023 1:00	988.5
4/27/2023 1:00	4/27/2023 2:00	963.3
4/27/2023 2:00	4/27/2023 3:00	942.2
4/27/2023 3:00	4/27/2023 4:00	935.6
4/27/2023 4:00	4/27/2023 5:00	955.0
4/27/2023 5:00	4/27/2023 6:00	1012.2
4/27/2023 6:00	4/27/2023 7:00	1139.6
4/27/2023 7:00	4/27/2023 8:00	1262.8
4/27/2023 8:00	4/27/2023 9:00	1299.2
4/27/2023 9:00	4/27/2023 10:00	1290.2
4/27/2023 10:00	4/27/2023 11:00	1273.8
4/27/2023 11:00	4/27/2023 12:00	1257.4
4/27/2023 12:00	4/27/2023 13:00	1225.8
4/27/2023 13:00	4/27/2023 14:00	1180.1
4/27/2023 14:00	4/27/2023 15:00	1137.8
4/27/2023 15:00	4/27/2023 16:00	1127.1
4/27/2023 16:00	4/27/2023 17:00	1147.1
4/27/2023 17:00	4/27/2023 18:00	1176.5
4/27/2023 18:00	4/27/2023 19:00	1158.8
4/27/2023 19:00	4/27/2023 20:00	1168.9
4/27/2023 20:00	4/27/2023 21:00	1198.5
4/27/2023 21:00	4/27/2023 22:00	1159.5
4/27/2023 22:00	4/27/2023 23:00	1075.8

Start Time	End Time	ANL_MW
4/27/2023 23:00	4/28/2023 0:00	1040.9
4/28/2023 0:00	4/28/2023 1:00	1004.8
4/28/2023 1:00	4/28/2023 2:00	981.0
4/28/2023 2:00	4/28/2023 3:00	942.0
4/28/2023 3:00	4/28/2023 4:00	929.2
4/28/2023 4:00	4/28/2023 5:00	929.1
4/28/2023 5:00	4/28/2023 6:00	982.9
4/28/2023 6:00	4/28/2023 7:00	1102.4
4/28/2023 7:00	4/28/2023 8:00	1191.5
4/28/2023 8:00	4/28/2023 9:00	1190.0
4/28/2023 9:00	4/28/2023 10:00	1128.4
4/28/2023 10:00	4/28/2023 11:00	1069.9
4/28/2023 11:00	4/28/2023 12:00	1016.2
4/28/2023 12:00	4/28/2023 13:00	989.4
4/28/2023 13:00	4/28/2023 14:00	976.7
4/28/2023 14:00	4/28/2023 15:00	948.4
4/28/2023 15:00	4/28/2023 16:00	934.6
4/28/2023 16:00	4/28/2023 17:00	959.6
4/28/2023 17:00	4/28/2023 18:00	1000.2
4/28/2023 18:00	4/28/2023 19:00	1004.4
4/28/2023 19:00	4/28/2023 20:00	1008.0
4/28/2023 20:00	4/28/2023 21:00	1021.3
4/28/2023 21:00	4/28/2023 22:00	1010.0
4/28/2023 22:00	4/28/2023 23:00	963.9
4/28/2023 23:00	4/29/2023 0:00	929.5
4/29/2023 0:00	4/29/2023 1:00	902.9
4/29/2023 1:00	4/29/2023 2:00	863.1
4/29/2023 2:00	4/29/2023 3:00	846.3
4/29/2023 3:00	4/29/2023 4:00	878.2
4/29/2023 4:00	4/29/2023 5:00	922.0
4/29/2023 5:00	4/29/2023 6:00	960.7
4/29/2023 6:00	4/29/2023 7:00	1000.5
4/29/2023 7:00	4/29/2023 8:00	1068.8
4/29/2023 8:00	4/29/2023 9:00	1121.2
4/29/2023 9:00	4/29/2023 10:00	1125.6
4/29/2023 10:00	4/29/2023 11:00	1092.9
4/29/2023 11:00	4/29/2023 12:00	1065.3
4/29/2023 12:00	4/29/2023 13:00	1029.1
4/29/2023 13:00	4/29/2023 14:00	972.1
4/29/2023 14:00	4/29/2023 15:00	923.3
4/29/2023 15:00	4/29/2023 16:00	911.4
4/29/2023 16:00	4/29/2023 17:00	935.2
4/29/2023 17:00	4/29/2023 18:00	988.5
4/29/2023 18:00	4/29/2023 19:00	1034.0
4/29/2023 19:00	4/29/2023 20:00	1066.1
4/29/2023 20:00	4/29/2023 21:00	1091.9
4/29/2023 21:00	4/29/2023 22:00	1075.2
4/29/2023 22:00	4/29/2023 23:00	1071.1
4/29/2023 23:00	4/30/2023 0:00	1060.8
4/30/2023 0:00	4/30/2023 1:00	1003.0
4/30/2023 1:00	4/30/2023 2:00	952.8
4/30/2023 2:00	4/30/2023 3:00	980.3
4/30/2023 3:00	4/30/2023 4:00	1016.9
4/30/2023 4:00	4/30/2023 5:00	1033.2
4/30/2023 5:00	4/30/2023 6:00	1046.1
4/30/2023 6:00	4/30/2023 7:00	1075.6
4/30/2023 7:00	4/30/2023 8:00	1105.3
4/30/2023 8:00	4/30/2023 9:00	1148.3
4/30/2023 9:00	4/30/2023 10:00	1141.4
4/30/2023 10:00	4/30/2023 11:00	1138.3
4/30/2023 11:00	4/30/2023 12:00	1110.0
4/30/2023 12:00	4/30/2023 13:00	1087.7
4/30/2023 13:00	4/30/2023 14:00	1068.4
4/30/2023 14:00	4/30/2023 15:00	1025.3
4/30/2023 15:00	4/30/2023 16:00	1003.8
4/30/2023 16:00	4/30/2023 17:00	1010.8
4/30/2023 17:00	4/30/2023 18:00	1020.4
4/30/2023 18:00	4/30/2023 19:00	1014.6
4/30/2023 19:00	4/30/2023 20:00	1043.5
4/30/2023 20:00	4/30/2023 21:00	1057.8

Start Time	End Time	ANL_MW
4/30/2023 21:00	4/30/2023 22:00	998.5
4/30/2023 22:00	4/30/2023 23:00	882.1
4/30/2023 23:00	5/1/2023 0:00	779.6
5/1/2023 0:00	5/1/2023 1:00	741.6
5/1/2023 1:00	5/1/2023 2:00	766.1
5/1/2023 2:00	5/1/2023 3:00	790.1
5/1/2023 3:00	5/1/2023 4:00	797.7
5/1/2023 4:00	5/1/2023 5:00	803.9
5/1/2023 5:00	5/1/2023 6:00	836.7
5/1/2023 6:00	5/1/2023 7:00	840.9
5/1/2023 7:00	5/1/2023 8:00	902.2
5/1/2023 8:00	5/1/2023 9:00	945.9
5/1/2023 9:00	5/1/2023 10:00	952.7
5/1/2023 10:00	5/1/2023 11:00	960.4
5/1/2023 11:00	5/1/2023 12:00	968.5
5/1/2023 12:00	5/1/2023 13:00	972.8
5/1/2023 13:00	5/1/2023 14:00	964.6
5/1/2023 14:00	5/1/2023 15:00	951.5
5/1/2023 15:00	5/1/2023 16:00	980.6
5/1/2023 16:00	5/1/2023 17:00	1018.3
5/1/2023 17:00	5/1/2023 18:00	1025.3
5/1/2023 18:00	5/1/2023 19:00	1010.9
5/1/2023 19:00	5/1/2023 20:00	975.6
5/1/2023 20:00	5/1/2023 21:00	976.1
5/1/2023 21:00	5/1/2023 22:00	943.6
5/1/2023 22:00	5/1/2023 23:00	847.2
5/1/2023 23:00	5/2/2023 0:00	816.0
5/2/2023 0:00	5/2/2023 1:00	835.7
5/2/2023 1:00	5/2/2023 2:00	844.8
5/2/2023 2:00	5/2/2023 3:00	854.0
5/2/2023 3:00	5/2/2023 4:00	849.0
5/2/2023 4:00	5/2/2023 5:00	869.2
5/2/2023 5:00	5/2/2023 6:00	875.6
5/2/2023 6:00	5/2/2023 7:00	916.9
5/2/2023 7:00	5/2/2023 8:00	1016.9
5/2/2023 8:00	5/2/2023 9:00	1063.3
5/2/2023 9:00	5/2/2023 10:00	1055.0
5/2/2023 10:00	5/2/2023 11:00	1029.3
5/2/2023 11:00	5/2/2023 12:00	1034.8
5/2/2023 12:00	5/2/2023 13:00	1037.8
5/2/2023 13:00	5/2/2023 14:00	1031.8
5/2/2023 14:00	5/2/2023 15:00	1019.0
5/2/2023 15:00	5/2/2023 16:00	1040.1
5/2/2023 16:00	5/2/2023 17:00	1088.8
5/2/2023 17:00	5/2/2023 18:00	1126.5
5/2/2023 18:00	5/2/2023 19:00	1119.1
5/2/2023 19:00	5/2/2023 20:00	1135.4
5/2/2023 20:00	5/2/2023 21:00	1148.5
5/2/2023 21:00	5/2/2023 22:00	1119.5
5/2/2023 22:00	5/2/2023 23:00	1070.7
5/2/2023 23:00	5/3/2023 0:00	1029.2
5/3/2023 0:00	5/3/2023 1:00	994.2
5/3/2023 1:00	5/3/2023 2:00	964.0
5/3/2023 2:00	5/3/2023 3:00	951.8
5/3/2023 3:00	5/3/2023 4:00	931.4
5/3/2023 4:00	5/3/2023 5:00	958.3
5/3/2023 5:00	5/3/2023 6:00	1014.7
5/3/2023 6:00	5/3/2023 7:00	1067.6
5/3/2023 7:00	5/3/2023 8:00	1163.9
5/3/2023 8:00	5/3/2023 9:00	1177.8
5/3/2023 9:00	5/3/2023 10:00	1179.6
5/3/2023 10:00	5/3/2023 11:00	1184.5
5/3/2023 11:00	5/3/2023 12:00	1189.8
5/3/2023 12:00	5/3/2023 13:00	1203.7
5/3/2023 13:00	5/3/2023 14:00	1196.2
5/3/2023 14:00	5/3/2023 15:00	1186.4
5/3/2023 15:00	5/3/2023 16:00	1201.5
5/3/2023 16:00	5/3/2023 17:00	1242.8
5/3/2023 17:00	5/3/2023 18:00	1261.9
5/3/2023 18:00	5/3/2023 19:00	1248.3

Start Time	End Time	ANL_MW
5/3/2023 19:00	5/3/2023 20:00	1251.1
5/3/2023 20:00	5/3/2023 21:00	1268.0
5/3/2023 21:00	5/3/2023 22:00	1227.2
5/3/2023 22:00	5/3/2023 23:00	1125.8
5/3/2023 23:00	5/4/2023 0:00	1104.9
5/4/2023 0:00	5/4/2023 1:00	1085.7
5/4/2023 1:00	5/4/2023 2:00	1065.3
5/4/2023 2:00	5/4/2023 3:00	1025.5
5/4/2023 3:00	5/4/2023 4:00	998.6
5/4/2023 4:00	5/4/2023 5:00	1003.9
5/4/2023 5:00	5/4/2023 6:00	1031.9
5/4/2023 6:00	5/4/2023 7:00	1094.1
5/4/2023 7:00	5/4/2023 8:00	1197.7
5/4/2023 8:00	5/4/2023 9:00	1214.2
5/4/2023 9:00	5/4/2023 10:00	1171.1
5/4/2023 10:00	5/4/2023 11:00	1143.3
5/4/2023 11:00	5/4/2023 12:00	1103.7
5/4/2023 12:00	5/4/2023 13:00	1044.9
5/4/2023 13:00	5/4/2023 14:00	995.3
5/4/2023 14:00	5/4/2023 15:00	955.1
5/4/2023 15:00	5/4/2023 16:00	931.5
5/4/2023 16:00	5/4/2023 17:00	937.0
5/4/2023 17:00	5/4/2023 18:00	958.0
5/4/2023 18:00	5/4/2023 19:00	956.3
5/4/2023 19:00	5/4/2023 20:00	953.1
5/4/2023 20:00	5/4/2023 21:00	964.8
5/4/2023 21:00	5/4/2023 22:00	933.7
5/4/2023 22:00	5/4/2023 23:00	886.0
5/4/2023 23:00	5/5/2023 0:00	897.9
5/5/2023 0:00	5/5/2023 1:00	904.8
5/5/2023 1:00	5/5/2023 2:00	902.3
5/5/2023 2:00	5/5/2023 3:00	873.2
5/5/2023 3:00	5/5/2023 4:00	847.7
5/5/2023 4:00	5/5/2023 5:00	825.1
5/5/2023 5:00	5/5/2023 6:00	862.8
5/5/2023 6:00	5/5/2023 7:00	961.7
5/5/2023 7:00	5/5/2023 8:00	1029.4
5/5/2023 8:00	5/5/2023 9:00	1036.7
5/5/2023 9:00	5/5/2023 10:00	1022.5
5/5/2023 10:00	5/5/2023 11:00	1013.0
5/5/2023 11:00	5/5/2023 12:00	1009.5
5/5/2023 12:00	5/5/2023 13:00	983.2
5/5/2023 13:00	5/5/2023 14:00	932.5
5/5/2023 14:00	5/5/2023 15:00	864.8
5/5/2023 15:00	5/5/2023 16:00	834.1
5/5/2023 16:00	5/5/2023 17:00	846.8
5/5/2023 17:00	5/5/2023 18:00	832.7
5/5/2023 18:00	5/5/2023 19:00	814.3
5/5/2023 19:00	5/5/2023 20:00	844.0
5/5/2023 20:00	5/5/2023 21:00	923.7
5/5/2023 21:00	5/5/2023 22:00	963.6
5/5/2023 22:00	5/5/2023 23:00	987.6
5/5/2023 23:00	5/6/2023 0:00	1020.1
5/6/2023 0:00	5/6/2023 1:00	1020.1
5/6/2023 1:00	5/6/2023 2:00	1006.0
5/6/2023 2:00	5/6/2023 3:00	986.6
5/6/2023 3:00	5/6/2023 4:00	940.3
5/6/2023 4:00	5/6/2023 5:00	897.7
5/6/2023 5:00	5/6/2023 6:00	857.3
5/6/2023 6:00	5/6/2023 7:00	885.1
5/6/2023 7:00	5/6/2023 8:00	937.3
5/6/2023 8:00	5/6/2023 9:00	997.0
5/6/2023 9:00	5/6/2023 10:00	1029.7
5/6/2023 10:00	5/6/2023 11:00	911.3
5/6/2023 11:00	5/6/2023 12:00	839.0
5/6/2023 12:00	5/6/2023 13:00	770.9
5/6/2023 13:00	5/6/2023 14:00	722.2
5/6/2023 14:00	5/6/2023 15:00	759.8
5/6/2023 15:00	5/6/2023 16:00	760.2
5/6/2023 16:00	5/6/2023 17:00	769.2

Start Time	End Time	ANL_MW
5/6/2023 17:00	5/6/2023 18:00	795.4
5/6/2023 18:00	5/6/2023 19:00	819.9
5/6/2023 19:00	5/6/2023 20:00	916.7
5/6/2023 20:00	5/6/2023 21:00	982.1
5/6/2023 21:00	5/6/2023 22:00	1011.0
5/6/2023 22:00	5/6/2023 23:00	990.1
5/6/2023 23:00	5/7/2023 0:00	974.8
5/7/2023 0:00	5/7/2023 1:00	964.3
5/7/2023 1:00	5/7/2023 2:00	987.0
5/7/2023 2:00	5/7/2023 3:00	1024.3
5/7/2023 3:00	5/7/2023 4:00	1023.5
5/7/2023 4:00	5/7/2023 5:00	1021.2
5/7/2023 5:00	5/7/2023 6:00	982.2
5/7/2023 6:00	5/7/2023 7:00	913.8
5/7/2023 7:00	5/7/2023 8:00	883.0
5/7/2023 8:00	5/7/2023 9:00	917.5
5/7/2023 9:00	5/7/2023 10:00	942.9
5/7/2023 10:00	5/7/2023 11:00	903.3
5/7/2023 11:00	5/7/2023 12:00	845.8
5/7/2023 12:00	5/7/2023 13:00	796.2
5/7/2023 13:00	5/7/2023 14:00	742.1
5/7/2023 14:00	5/7/2023 15:00	779.9
5/7/2023 15:00	5/7/2023 16:00	798.8
5/7/2023 16:00	5/7/2023 17:00	779.6
5/7/2023 17:00	5/7/2023 18:00	801.1
5/7/2023 18:00	5/7/2023 19:00	826.3
5/7/2023 19:00	5/7/2023 20:00	865.9
5/7/2023 20:00	5/7/2023 21:00	888.2
5/7/2023 21:00	5/7/2023 22:00	848.8
5/7/2023 22:00	5/7/2023 23:00	754.4
5/7/2023 23:00	5/8/2023 0:00	756.0
5/8/2023 0:00	5/8/2023 1:00	765.1
5/8/2023 1:00	5/8/2023 2:00	802.0
5/8/2023 2:00	5/8/2023 3:00	814.7
5/8/2023 3:00	5/8/2023 4:00	871.4
5/8/2023 4:00	5/8/2023 5:00	870.0
5/8/2023 5:00	5/8/2023 6:00	951.7
5/8/2023 6:00	5/8/2023 7:00	1081.9
5/8/2023 7:00	5/8/2023 8:00	1126.8
5/8/2023 8:00	5/8/2023 9:00	1173.6
5/8/2023 9:00	5/8/2023 10:00	1167.5
5/8/2023 10:00	5/8/2023 11:00	1139.1
5/8/2023 11:00	5/8/2023 12:00	1094.6
5/8/2023 12:00	5/8/2023 13:00	1009.2
5/8/2023 13:00	5/8/2023 14:00	898.0
5/8/2023 14:00	5/8/2023 15:00	798.1
5/8/2023 15:00	5/8/2023 16:00	754.1
5/8/2023 16:00	5/8/2023 17:00	867.3
5/8/2023 17:00	5/8/2023 18:00	888.4
5/8/2023 18:00	5/8/2023 19:00	895.7
5/8/2023 19:00	5/8/2023 20:00	888.9
5/8/2023 20:00	5/8/2023 21:00	898.4
5/8/2023 21:00	5/8/2023 22:00	880.8
5/8/2023 22:00	5/8/2023 23:00	849.9
5/8/2023 23:00	5/9/2023 0:00	827.3
5/9/2023 0:00	5/9/2023 1:00	888.0
5/9/2023 1:00	5/9/2023 2:00	875.3
5/9/2023 2:00	5/9/2023 3:00	847.4
5/9/2023 3:00	5/9/2023 4:00	799.7
5/9/2023 4:00	5/9/2023 5:00	789.2
5/9/2023 5:00	5/9/2023 6:00	832.8
5/9/2023 6:00	5/9/2023 7:00	933.4
5/9/2023 7:00	5/9/2023 8:00	963.7
5/9/2023 8:00	5/9/2023 9:00	954.0
5/9/2023 9:00	5/9/2023 10:00	881.2
5/9/2023 10:00	5/9/2023 11:00	822.7
5/9/2023 11:00	5/9/2023 12:00	807.7
5/9/2023 12:00	5/9/2023 13:00	793.9
5/9/2023 13:00	5/9/2023 14:00	805.0
5/9/2023 14:00	5/9/2023 15:00	813.0

Start Time	End Time	ANL_MW
5/9/2023 15:00	5/9/2023 16:00	835.6
5/9/2023 16:00	5/9/2023 17:00	916.9
5/9/2023 17:00	5/9/2023 18:00	1006.7
5/9/2023 18:00	5/9/2023 19:00	1023.6
5/9/2023 19:00	5/9/2023 20:00	1070.3
5/9/2023 20:00	5/9/2023 21:00	1125.8
5/9/2023 21:00	5/9/2023 22:00	1141.3
5/9/2023 22:00	5/9/2023 23:00	1053.0
5/9/2023 23:00	5/10/2023 0:00	977.1
5/10/2023 0:00	5/10/2023 1:00	916.3
5/10/2023 1:00	5/10/2023 2:00	855.6
5/10/2023 2:00	5/10/2023 3:00	820.3
5/10/2023 3:00	5/10/2023 4:00	803.5
5/10/2023 4:00	5/10/2023 5:00	819.5
5/10/2023 5:00	5/10/2023 6:00	790.8
5/10/2023 6:00	5/10/2023 7:00	874.4
5/10/2023 7:00	5/10/2023 8:00	990.2
5/10/2023 8:00	5/10/2023 9:00	1009.1
5/10/2023 9:00	5/10/2023 10:00	955.1
5/10/2023 10:00	5/10/2023 11:00	884.4
5/10/2023 11:00	5/10/2023 12:00	878.7
5/10/2023 12:00	5/10/2023 13:00	863.2
5/10/2023 13:00	5/10/2023 14:00	838.8
5/10/2023 14:00	5/10/2023 15:00	823.9
5/10/2023 15:00	5/10/2023 16:00	853.8
5/10/2023 16:00	5/10/2023 17:00	887.7
5/10/2023 17:00	5/10/2023 18:00	934.6
5/10/2023 18:00	5/10/2023 19:00	992.1
5/10/2023 19:00	5/10/2023 20:00	1051.8
5/10/2023 20:00	5/10/2023 21:00	1078.8
5/10/2023 21:00	5/10/2023 22:00	1029.1
5/10/2023 22:00	5/10/2023 23:00	940.6
5/10/2023 23:00	5/11/2023 0:00	884.1
5/11/2023 0:00	5/11/2023 1:00	863.9
5/11/2023 1:00	5/11/2023 2:00	861.1
5/11/2023 2:00	5/11/2023 3:00	884.6
5/11/2023 3:00	5/11/2023 4:00	918.5
5/11/2023 4:00	5/11/2023 5:00	934.5
5/11/2023 5:00	5/11/2023 6:00	1005.3
5/11/2023 6:00	5/11/2023 7:00	1070.8
5/11/2023 7:00	5/11/2023 8:00	1154.6
5/11/2023 8:00	5/11/2023 9:00	1147.1
5/11/2023 9:00	5/11/2023 10:00	1106.6
5/11/2023 10:00	5/11/2023 11:00	1079.5
5/11/2023 11:00	5/11/2023 12:00	1058.5
5/11/2023 12:00	5/11/2023 13:00	1091.5
5/11/2023 13:00	5/11/2023 14:00	1081.7
5/11/2023 14:00	5/11/2023 15:00	1057.4
5/11/2023 15:00	5/11/2023 16:00	1047.2
5/11/2023 16:00	5/11/2023 17:00	1074.8
5/11/2023 17:00	5/11/2023 18:00	1105.5
5/11/2023 18:00	5/11/2023 19:00	1107.3
5/11/2023 19:00	5/11/2023 20:00	1083.8
5/11/2023 20:00	5/11/2023 21:00	1047.8
5/11/2023 21:00	5/11/2023 22:00	998.1
5/11/2023 22:00	5/11/2023 23:00	909.9
5/11/2023 23:00	5/12/2023 0:00	831.0
5/12/2023 0:00	5/12/2023 1:00	780.0
5/12/2023 1:00	5/12/2023 2:00	758.7
5/12/2023 2:00	5/12/2023 3:00	779.5
5/12/2023 3:00	5/12/2023 4:00	770.2
5/12/2023 4:00	5/12/2023 5:00	791.8
5/12/2023 5:00	5/12/2023 6:00	801.4
5/12/2023 6:00	5/12/2023 7:00	854.4
5/12/2023 7:00	5/12/2023 8:00	977.0
5/12/2023 8:00	5/12/2023 9:00	1066.0
5/12/2023 9:00	5/12/2023 10:00	1106.2
5/12/2023 10:00	5/12/2023 11:00	1072.9
5/12/2023 11:00	5/12/2023 12:00	1028.1
5/12/2023 12:00	5/12/2023 13:00	985.0

Start Time	End Time	ANL_MW
5/12/2023 13:00	5/12/2023 14:00	962.9
5/12/2023 14:00	5/12/2023 15:00	940.7
5/12/2023 15:00	5/12/2023 16:00	926.7
5/12/2023 16:00	5/12/2023 17:00	938.7
5/12/2023 17:00	5/12/2023 18:00	987.1
5/12/2023 18:00	5/12/2023 19:00	981.3
5/12/2023 19:00	5/12/2023 20:00	958.9
5/12/2023 20:00	5/12/2023 21:00	948.3
5/12/2023 21:00	5/12/2023 22:00	910.1
5/12/2023 22:00	5/12/2023 23:00	851.3
5/12/2023 23:00	5/13/2023 0:00	830.1
5/13/2023 0:00	5/13/2023 1:00	810.0
5/13/2023 1:00	5/13/2023 2:00	746.2
5/13/2023 2:00	5/13/2023 3:00	730.7
5/13/2023 3:00	5/13/2023 4:00	769.1
5/13/2023 4:00	5/13/2023 5:00	782.9
5/13/2023 5:00	5/13/2023 6:00	787.1
5/13/2023 6:00	5/13/2023 7:00	845.2
5/13/2023 7:00	5/13/2023 8:00	933.8
5/13/2023 8:00	5/13/2023 9:00	1024.5
5/13/2023 9:00	5/13/2023 10:00	1055.7
5/13/2023 10:00	5/13/2023 11:00	1081.8
5/13/2023 11:00	5/13/2023 12:00	1052.1
5/13/2023 12:00	5/13/2023 13:00	1047.3
5/13/2023 13:00	5/13/2023 14:00	998.8
5/13/2023 14:00	5/13/2023 15:00	939.5
5/13/2023 15:00	5/13/2023 16:00	889.4
5/13/2023 16:00	5/13/2023 17:00	905.2
5/13/2023 17:00	5/13/2023 18:00	913.4
5/13/2023 18:00	5/13/2023 19:00	895.6
5/13/2023 19:00	5/13/2023 20:00	935.0
5/13/2023 20:00	5/13/2023 21:00	1012.7
5/13/2023 21:00	5/13/2023 22:00	990.5
5/13/2023 22:00	5/13/2023 23:00	848.9
5/13/2023 23:00	5/14/2023 0:00	782.2
5/14/2023 0:00	5/14/2023 1:00	757.3
5/14/2023 1:00	5/14/2023 2:00	715.4
5/14/2023 2:00	5/14/2023 3:00	705.9
5/14/2023 3:00	5/14/2023 4:00	720.3
5/14/2023 4:00	5/14/2023 5:00	702.8
5/14/2023 5:00	5/14/2023 6:00	684.3
5/14/2023 6:00	5/14/2023 7:00	700.4
5/14/2023 7:00	5/14/2023 8:00	750.8
5/14/2023 8:00	5/14/2023 9:00	813.8
5/14/2023 9:00	5/14/2023 10:00	829.6
5/14/2023 10:00	5/14/2023 11:00	827.5
5/14/2023 11:00	5/14/2023 12:00	831.9
5/14/2023 12:00	5/14/2023 13:00	780.6
5/14/2023 13:00	5/14/2023 14:00	789.0
5/14/2023 14:00	5/14/2023 15:00	802.8
5/14/2023 15:00	5/14/2023 16:00	815.8
5/14/2023 16:00	5/14/2023 17:00	855.2
5/14/2023 17:00	5/14/2023 18:00	924.9
5/14/2023 18:00	5/14/2023 19:00	953.8
5/14/2023 19:00	5/14/2023 20:00	1025.7
5/14/2023 20:00	5/14/2023 21:00	1086.4
5/14/2023 21:00	5/14/2023 22:00	1083.8
5/14/2023 22:00	5/14/2023 23:00	1007.3
5/14/2023 23:00	5/15/2023 0:00	945.0
5/15/2023 0:00	5/15/2023 1:00	883.8
5/15/2023 1:00	5/15/2023 2:00	879.9
5/15/2023 2:00	5/15/2023 3:00	822.3
5/15/2023 3:00	5/15/2023 4:00	791.4
5/15/2023 4:00	5/15/2023 5:00	829.3
5/15/2023 5:00	5/15/2023 6:00	839.0
5/15/2023 6:00	5/15/2023 7:00	852.8
5/15/2023 7:00	5/15/2023 8:00	981.9
5/15/2023 8:00	5/15/2023 9:00	1042.7
5/15/2023 9:00	5/15/2023 10:00	991.7
5/15/2023 10:00	5/15/2023 11:00	900.3

Start Time	End Time	ANL_MW
5/15/2023 11:00	5/15/2023 12:00	851.3
5/15/2023 12:00	5/15/2023 13:00	815.0
5/15/2023 13:00	5/15/2023 14:00	782.5
5/15/2023 14:00	5/15/2023 15:00	741.7
5/15/2023 15:00	5/15/2023 16:00	765.2
5/15/2023 16:00	5/15/2023 17:00	804.7
5/15/2023 17:00	5/15/2023 18:00	789.5
5/15/2023 18:00	5/15/2023 19:00	770.6
5/15/2023 19:00	5/15/2023 20:00	782.9
5/15/2023 20:00	5/15/2023 21:00	778.0
5/15/2023 21:00	5/15/2023 22:00	734.4
5/15/2023 22:00	5/15/2023 23:00	729.7
5/15/2023 23:00	5/16/2023 0:00	725.4
5/16/2023 0:00	5/16/2023 1:00	716.1
5/16/2023 1:00	5/16/2023 2:00	728.2
5/16/2023 2:00	5/16/2023 3:00	707.3
5/16/2023 3:00	5/16/2023 4:00	700.5
5/16/2023 4:00	5/16/2023 5:00	713.6
5/16/2023 5:00	5/16/2023 6:00	704.0
5/16/2023 6:00	5/16/2023 7:00	764.3
5/16/2023 7:00	5/16/2023 8:00	892.4
5/16/2023 8:00	5/16/2023 9:00	923.3
5/16/2023 9:00	5/16/2023 10:00	928.1
5/16/2023 10:00	5/16/2023 11:00	898.0
5/16/2023 11:00	5/16/2023 12:00	884.4
5/16/2023 12:00	5/16/2023 13:00	814.0
5/16/2023 13:00	5/16/2023 14:00	818.9
5/16/2023 14:00	5/16/2023 15:00	852.4
5/16/2023 15:00	5/16/2023 16:00	898.3
5/16/2023 16:00	5/16/2023 17:00	984.4
5/16/2023 17:00	5/16/2023 18:00	1033.5
5/16/2023 18:00	5/16/2023 19:00	1052.8
5/16/2023 19:00	5/16/2023 20:00	1047.6
5/16/2023 20:00	5/16/2023 21:00	1030.8
5/16/2023 21:00	5/16/2023 22:00	1017.5
5/16/2023 22:00	5/16/2023 23:00	946.3
5/16/2023 23:00	5/17/2023 0:00	851.2
5/17/2023 0:00	5/17/2023 1:00	762.6
5/17/2023 1:00	5/17/2023 2:00	731.2
5/17/2023 2:00	5/17/2023 3:00	724.9
5/17/2023 3:00	5/17/2023 4:00	730.6
5/17/2023 4:00	5/17/2023 5:00	735.8
5/17/2023 5:00	5/17/2023 6:00	787.9
5/17/2023 6:00	5/17/2023 7:00	924.3
5/17/2023 7:00	5/17/2023 8:00	1053.8
5/17/2023 8:00	5/17/2023 9:00	1093.0
5/17/2023 9:00	5/17/2023 10:00	1111.4
5/17/2023 10:00	5/17/2023 11:00	1113.6
5/17/2023 11:00	5/17/2023 12:00	1100.8
5/17/2023 12:00	5/17/2023 13:00	1024.0
5/17/2023 13:00	5/17/2023 14:00	971.5
5/17/2023 14:00	5/17/2023 15:00	935.3
5/17/2023 15:00	5/17/2023 16:00	932.7
5/17/2023 16:00	5/17/2023 17:00	982.5
5/17/2023 17:00	5/17/2023 18:00	982.9
5/17/2023 18:00	5/17/2023 19:00	916.3
5/17/2023 19:00	5/17/2023 20:00	944.9
5/17/2023 20:00	5/17/2023 21:00	984.2
5/17/2023 21:00	5/17/2023 22:00	970.9
5/17/2023 22:00	5/17/2023 23:00	852.4
5/17/2023 23:00	5/18/2023 0:00	758.1
5/18/2023 0:00	5/18/2023 1:00	760.8
5/18/2023 1:00	5/18/2023 2:00	666.8
5/18/2023 2:00	5/18/2023 3:00	618.8
5/18/2023 3:00	5/18/2023 4:00	609.0
5/18/2023 4:00	5/18/2023 5:00	633.3
5/18/2023 5:00	5/18/2023 6:00	686.6
5/18/2023 6:00	5/18/2023 7:00	827.2
5/18/2023 7:00	5/18/2023 8:00	924.0
5/18/2023 8:00	5/18/2023 9:00	907.3

Start Time	End Time	ANL_MW
5/18/2023 9:00	5/18/2023 10:00	869.2
5/18/2023 10:00	5/18/2023 11:00	822.1
5/18/2023 11:00	5/18/2023 12:00	791.0
5/18/2023 12:00	5/18/2023 13:00	766.3
5/18/2023 13:00	5/18/2023 14:00	769.7
5/18/2023 14:00	5/18/2023 15:00	788.8
5/18/2023 15:00	5/18/2023 16:00	799.9
5/18/2023 16:00	5/18/2023 17:00	845.3
5/18/2023 17:00	5/18/2023 18:00	875.5
5/18/2023 18:00	5/18/2023 19:00	890.1
5/18/2023 19:00	5/18/2023 20:00	926.7
5/18/2023 20:00	5/18/2023 21:00	944.3
5/18/2023 21:00	5/18/2023 22:00	916.0
5/18/2023 22:00	5/18/2023 23:00	803.8
5/18/2023 23:00	5/19/2023 0:00	741.0
5/19/2023 0:00	5/19/2023 1:00	684.4
5/19/2023 1:00	5/19/2023 2:00	682.9
5/19/2023 2:00	5/19/2023 3:00	694.3
5/19/2023 3:00	5/19/2023 4:00	689.2
5/19/2023 4:00	5/19/2023 5:00	686.4
5/19/2023 5:00	5/19/2023 6:00	704.8
5/19/2023 6:00	5/19/2023 7:00	847.4
5/19/2023 7:00	5/19/2023 8:00	971.9
5/19/2023 8:00	5/19/2023 9:00	991.6
5/19/2023 9:00	5/19/2023 10:00	927.9
5/19/2023 10:00	5/19/2023 11:00	788.9
5/19/2023 11:00	5/19/2023 12:00	740.3
5/19/2023 12:00	5/19/2023 13:00	669.9
5/19/2023 13:00	5/19/2023 14:00	622.9
5/19/2023 14:00	5/19/2023 15:00	577.8
5/19/2023 15:00	5/19/2023 16:00	581.7
5/19/2023 16:00	5/19/2023 17:00	607.9
5/19/2023 17:00	5/19/2023 18:00	632.8
5/19/2023 18:00	5/19/2023 19:00	615.9
5/19/2023 19:00	5/19/2023 20:00	595.8
5/19/2023 20:00	5/19/2023 21:00	610.9
5/19/2023 21:00	5/19/2023 22:00	602.7
5/19/2023 22:00	5/19/2023 23:00	577.2
5/19/2023 23:00	5/20/2023 0:00	547.3
5/20/2023 0:00	5/20/2023 1:00	489.5
5/20/2023 1:00	5/20/2023 2:00	468.7
5/20/2023 2:00	5/20/2023 3:00	496.3
5/20/2023 3:00	5/20/2023 4:00	496.7
5/20/2023 4:00	5/20/2023 5:00	522.1
5/20/2023 5:00	5/20/2023 6:00	507.4
5/20/2023 6:00	5/20/2023 7:00	535.5
5/20/2023 7:00	5/20/2023 8:00	618.2
5/20/2023 8:00	5/20/2023 9:00	681.8
5/20/2023 9:00	5/20/2023 10:00	699.1
5/20/2023 10:00	5/20/2023 11:00	705.2
5/20/2023 11:00	5/20/2023 12:00	635.6
5/20/2023 12:00	5/20/2023 13:00	639.5
5/20/2023 13:00	5/20/2023 14:00	701.3
5/20/2023 14:00	5/20/2023 15:00	741.7
5/20/2023 15:00	5/20/2023 16:00	724.5
5/20/2023 16:00	5/20/2023 17:00	681.7
5/20/2023 17:00	5/20/2023 18:00	689.5
5/20/2023 18:00	5/20/2023 19:00	703.2
5/20/2023 19:00	5/20/2023 20:00	721.1
5/20/2023 20:00	5/20/2023 21:00	748.9
5/20/2023 21:00	5/20/2023 22:00	751.3
5/20/2023 22:00	5/20/2023 23:00	697.2
5/20/2023 23:00	5/21/2023 0:00	597.7
5/21/2023 0:00	5/21/2023 1:00	527.5
5/21/2023 1:00	5/21/2023 2:00	462.0
5/21/2023 2:00	5/21/2023 3:00	476.3
5/21/2023 3:00	5/21/2023 4:00	462.1
5/21/2023 4:00	5/21/2023 5:00	464.4
5/21/2023 5:00	5/21/2023 6:00	521.3
5/21/2023 6:00	5/21/2023 7:00	585.0

Start Time	End Time	ANL_MW
5/21/2023 7:00	5/21/2023 8:00	630.2
5/21/2023 8:00	5/21/2023 9:00	627.8
5/21/2023 9:00	5/21/2023 10:00	643.6
5/21/2023 10:00	5/21/2023 11:00	662.0
5/21/2023 11:00	5/21/2023 12:00	697.6
5/21/2023 12:00	5/21/2023 13:00	718.2
5/21/2023 13:00	5/21/2023 14:00	710.2
5/21/2023 14:00	5/21/2023 15:00	706.5
5/21/2023 15:00	5/21/2023 16:00	734.6
5/21/2023 16:00	5/21/2023 17:00	788.0
5/21/2023 17:00	5/21/2023 18:00	849.9
5/21/2023 18:00	5/21/2023 19:00	886.8
5/21/2023 19:00	5/21/2023 20:00	915.2
5/21/2023 20:00	5/21/2023 21:00	920.9
5/21/2023 21:00	5/21/2023 22:00	930.6
5/21/2023 22:00	5/21/2023 23:00	884.5
5/21/2023 23:00	5/22/2023 0:00	839.1
5/22/2023 0:00	5/22/2023 1:00	806.8
5/22/2023 1:00	5/22/2023 2:00	756.2
5/22/2023 2:00	5/22/2023 3:00	707.9
5/22/2023 3:00	5/22/2023 4:00	702.4
5/22/2023 4:00	5/22/2023 5:00	712.7
5/22/2023 5:00	5/22/2023 6:00	733.4
5/22/2023 6:00	5/22/2023 7:00	733.7
5/22/2023 7:00	5/22/2023 8:00	818.1
5/22/2023 8:00	5/22/2023 9:00	895.1
5/22/2023 9:00	5/22/2023 10:00	968.9
5/22/2023 10:00	5/22/2023 11:00	1019.0
5/22/2023 11:00	5/22/2023 12:00	1006.2
5/22/2023 12:00	5/22/2023 13:00	989.5
5/22/2023 13:00	5/22/2023 14:00	956.3
5/22/2023 14:00	5/22/2023 15:00	937.0
5/22/2023 15:00	5/22/2023 16:00	952.6
5/22/2023 16:00	5/22/2023 17:00	1007.1
5/22/2023 17:00	5/22/2023 18:00	1056.5
5/22/2023 18:00	5/22/2023 19:00	1052.6
5/22/2023 19:00	5/22/2023 20:00	1059.3
5/22/2023 20:00	5/22/2023 21:00	1077.4
5/22/2023 21:00	5/22/2023 22:00	1060.5
5/22/2023 22:00	5/22/2023 23:00	965.0
5/22/2023 23:00	5/23/2023 0:00	897.9
5/23/2023 0:00	5/23/2023 1:00	898.8
5/23/2023 1:00	5/23/2023 2:00	891.2
5/23/2023 2:00	5/23/2023 3:00	913.0
5/23/2023 3:00	5/23/2023 4:00	913.6
5/23/2023 4:00	5/23/2023 5:00	878.5
5/23/2023 5:00	5/23/2023 6:00	936.0
5/23/2023 6:00	5/23/2023 7:00	998.0
5/23/2023 7:00	5/23/2023 8:00	1094.4
5/23/2023 8:00	5/23/2023 9:00	1114.9
5/23/2023 9:00	5/23/2023 10:00	1079.4
5/23/2023 10:00	5/23/2023 11:00	1062.0
5/23/2023 11:00	5/23/2023 12:00	1043.2
5/23/2023 12:00	5/23/2023 13:00	1029.9
5/23/2023 13:00	5/23/2023 14:00	1007.2
5/23/2023 14:00	5/23/2023 15:00	986.7
5/23/2023 15:00	5/23/2023 16:00	988.2
5/23/2023 16:00	5/23/2023 17:00	1017.1
5/23/2023 17:00	5/23/2023 18:00	1033.7
5/23/2023 18:00	5/23/2023 19:00	1006.0
5/23/2023 19:00	5/23/2023 20:00	995.3
5/23/2023 20:00	5/23/2023 21:00	980.3
5/23/2023 21:00	5/23/2023 22:00	946.2
5/23/2023 22:00	5/23/2023 23:00	860.2
5/23/2023 23:00	5/24/2023 0:00	803.8
5/24/2023 0:00	5/24/2023 1:00	768.1
5/24/2023 1:00	5/24/2023 2:00	762.2
5/24/2023 2:00	5/24/2023 3:00	782.0
5/24/2023 3:00	5/24/2023 4:00	807.1
5/24/2023 4:00	5/24/2023 5:00	836.0

Start Time	End Time	ANL_MW
5/24/2023 5:00	5/24/2023 6:00	846.8
5/24/2023 6:00	5/24/2023 7:00	867.7
5/24/2023 7:00	5/24/2023 8:00	989.3
5/24/2023 8:00	5/24/2023 9:00	1034.9
5/24/2023 9:00	5/24/2023 10:00	1014.0
5/24/2023 10:00	5/24/2023 11:00	981.1
5/24/2023 11:00	5/24/2023 12:00	959.8
5/24/2023 12:00	5/24/2023 13:00	919.9
5/24/2023 13:00	5/24/2023 14:00	879.3
5/24/2023 14:00	5/24/2023 15:00	828.1
5/24/2023 15:00	5/24/2023 16:00	798.0
5/24/2023 16:00	5/24/2023 17:00	866.0
5/24/2023 17:00	5/24/2023 18:00	917.4
5/24/2023 18:00	5/24/2023 19:00	944.3
5/24/2023 19:00	5/24/2023 20:00	966.0
5/24/2023 20:00	5/24/2023 21:00	983.5
5/24/2023 21:00	5/24/2023 22:00	959.5
5/24/2023 22:00	5/24/2023 23:00	877.9
5/24/2023 23:00	5/25/2023 0:00	823.1
5/25/2023 0:00	5/25/2023 1:00	790.3
5/25/2023 1:00	5/25/2023 2:00	792.2
5/25/2023 2:00	5/25/2023 3:00	824.2
5/25/2023 3:00	5/25/2023 4:00	834.6
5/25/2023 4:00	5/25/2023 5:00	844.6
5/25/2023 5:00	5/25/2023 6:00	895.0
5/25/2023 6:00	5/25/2023 7:00	981.2
5/25/2023 7:00	5/25/2023 8:00	1080.4
5/25/2023 8:00	5/25/2023 9:00	1127.6
5/25/2023 9:00	5/25/2023 10:00	1140.9
5/25/2023 10:00	5/25/2023 11:00	1134.2
5/25/2023 11:00	5/25/2023 12:00	1110.1
5/25/2023 12:00	5/25/2023 13:00	1062.8
5/25/2023 13:00	5/25/2023 14:00	1025.2
5/25/2023 14:00	5/25/2023 15:00	989.3
5/25/2023 15:00	5/25/2023 16:00	980.1
5/25/2023 16:00	5/25/2023 17:00	991.0
5/25/2023 17:00	5/25/2023 18:00	983.5
5/25/2023 18:00	5/25/2023 19:00	964.5
5/25/2023 19:00	5/25/2023 20:00	980.3
5/25/2023 20:00	5/25/2023 21:00	978.3
5/25/2023 21:00	5/25/2023 22:00	969.0
5/25/2023 22:00	5/25/2023 23:00	901.1
5/25/2023 23:00	5/26/2023 0:00	850.7
5/26/2023 0:00	5/26/2023 1:00	823.9
5/26/2023 1:00	5/26/2023 2:00	808.5
5/26/2023 2:00	5/26/2023 3:00	801.5
5/26/2023 3:00	5/26/2023 4:00	797.2
5/26/2023 4:00	5/26/2023 5:00	796.9
5/26/2023 5:00	5/26/2023 6:00	822.7
5/26/2023 6:00	5/26/2023 7:00	908.7
5/26/2023 7:00	5/26/2023 8:00	988.7
5/26/2023 8:00	5/26/2023 9:00	1018.5
5/26/2023 9:00	5/26/2023 10:00	1026.0
5/26/2023 10:00	5/26/2023 11:00	1029.5
5/26/2023 11:00	5/26/2023 12:00	1056.4
5/26/2023 12:00	5/26/2023 13:00	1038.4
5/26/2023 13:00	5/26/2023 14:00	1019.7
5/26/2023 14:00	5/26/2023 15:00	1010.0
5/26/2023 15:00	5/26/2023 16:00	1002.8
5/26/2023 16:00	5/26/2023 17:00	1003.7
5/26/2023 17:00	5/26/2023 18:00	1014.8
5/26/2023 18:00	5/26/2023 19:00	1018.1
5/26/2023 19:00	5/26/2023 20:00	1048.9
5/26/2023 20:00	5/26/2023 21:00	1066.6
5/26/2023 21:00	5/26/2023 22:00	1074.9
5/26/2023 22:00	5/26/2023 23:00	989.5
5/26/2023 23:00	5/27/2023 0:00	951.6
5/27/2023 0:00	5/27/2023 1:00	912.5
5/27/2023 1:00	5/27/2023 2:00	875.7
5/27/2023 2:00	5/27/2023 3:00	805.6

Start Time	End Time	ANL_MW
5/27/2023 3:00	5/27/2023 4:00	777.3
5/27/2023 4:00	5/27/2023 5:00	792.4
5/27/2023 5:00	5/27/2023 6:00	768.0
5/27/2023 6:00	5/27/2023 7:00	740.0
5/27/2023 7:00	5/27/2023 8:00	833.6
5/27/2023 8:00	5/27/2023 9:00	908.2
5/27/2023 9:00	5/27/2023 10:00	912.4
5/27/2023 10:00	5/27/2023 11:00	881.6
5/27/2023 11:00	5/27/2023 12:00	853.5
5/27/2023 12:00	5/27/2023 13:00	820.8
5/27/2023 13:00	5/27/2023 14:00	800.3
5/27/2023 14:00	5/27/2023 15:00	790.3
5/27/2023 15:00	5/27/2023 16:00	788.0
5/27/2023 16:00	5/27/2023 17:00	808.7
5/27/2023 17:00	5/27/2023 18:00	878.1
5/27/2023 18:00	5/27/2023 19:00	908.6
5/27/2023 19:00	5/27/2023 20:00	934.5
5/27/2023 20:00	5/27/2023 21:00	920.1
5/27/2023 21:00	5/27/2023 22:00	884.2
5/27/2023 22:00	5/27/2023 23:00	801.5
5/27/2023 23:00	5/28/2023 0:00	710.7
5/28/2023 0:00	5/28/2023 1:00	662.4
5/28/2023 1:00	5/28/2023 2:00	669.2
5/28/2023 2:00	5/28/2023 3:00	667.2
5/28/2023 3:00	5/28/2023 4:00	678.3
5/28/2023 4:00	5/28/2023 5:00	671.9
5/28/2023 5:00	5/28/2023 6:00	676.7
5/28/2023 6:00	5/28/2023 7:00	695.9
5/28/2023 7:00	5/28/2023 8:00	715.6
5/28/2023 8:00	5/28/2023 9:00	772.0
5/28/2023 9:00	5/28/2023 10:00	810.4
5/28/2023 10:00	5/28/2023 11:00	833.3
5/28/2023 11:00	5/28/2023 12:00	783.8
5/28/2023 12:00	5/28/2023 13:00	705.9
5/28/2023 13:00	5/28/2023 14:00	656.3
5/28/2023 14:00	5/28/2023 15:00	651.9
5/28/2023 15:00	5/28/2023 16:00	663.6
5/28/2023 16:00	5/28/2023 17:00	701.3
5/28/2023 17:00	5/28/2023 18:00	708.9
5/28/2023 18:00	5/28/2023 19:00	717.0
5/28/2023 19:00	5/28/2023 20:00	712.7
5/28/2023 20:00	5/28/2023 21:00	719.4
5/28/2023 21:00	5/28/2023 22:00	743.3
5/28/2023 22:00	5/28/2023 23:00	711.7
5/28/2023 23:00	5/29/2023 0:00	669.0
5/29/2023 0:00	5/29/2023 1:00	595.7
5/29/2023 1:00	5/29/2023 2:00	556.6
5/29/2023 2:00	5/29/2023 3:00	528.9
5/29/2023 3:00	5/29/2023 4:00	512.6
5/29/2023 4:00	5/29/2023 5:00	532.0
5/29/2023 5:00	5/29/2023 6:00	553.8
5/29/2023 6:00	5/29/2023 7:00	638.3
5/29/2023 7:00	5/29/2023 8:00	635.0
5/29/2023 8:00	5/29/2023 9:00	644.8
5/29/2023 9:00	5/29/2023 10:00	684.4
5/29/2023 10:00	5/29/2023 11:00	706.1
5/29/2023 11:00	5/29/2023 12:00	702.5
5/29/2023 12:00	5/29/2023 13:00	727.7
5/29/2023 13:00	5/29/2023 14:00	721.9
5/29/2023 14:00	5/29/2023 15:00	734.4
5/29/2023 15:00	5/29/2023 16:00	720.4
5/29/2023 16:00	5/29/2023 17:00	770.0
5/29/2023 17:00	5/29/2023 18:00	831.1
5/29/2023 18:00	5/29/2023 19:00	862.2
5/29/2023 19:00	5/29/2023 20:00	928.0
5/29/2023 20:00	5/29/2023 21:00	965.5
5/29/2023 21:00	5/29/2023 22:00	990.7
5/29/2023 22:00	5/29/2023 23:00	941.9
5/29/2023 23:00	5/30/2023 0:00	899.0
5/30/2023 0:00	5/30/2023 1:00	860.8

Start Time	End Time	ANL_MW
5/30/2023 1:00	5/30/2023 2:00	841.4
5/30/2023 2:00	5/30/2023 3:00	832.1
5/30/2023 3:00	5/30/2023 4:00	823.1
5/30/2023 4:00	5/30/2023 5:00	834.8
5/30/2023 5:00	5/30/2023 6:00	865.6
5/30/2023 6:00	5/30/2023 7:00	965.7
5/30/2023 7:00	5/30/2023 8:00	1049.1
5/30/2023 8:00	5/30/2023 9:00	1063.8
5/30/2023 9:00	5/30/2023 10:00	1029.0
5/30/2023 10:00	5/30/2023 11:00	973.4
5/30/2023 11:00	5/30/2023 12:00	939.5
5/30/2023 12:00	5/30/2023 13:00	927.8
5/30/2023 13:00	5/30/2023 14:00	909.6
5/30/2023 14:00	5/30/2023 15:00	888.7
5/30/2023 15:00	5/30/2023 16:00	887.1
5/30/2023 16:00	5/30/2023 17:00	892.4
5/30/2023 17:00	5/30/2023 18:00	911.0
5/30/2023 18:00	5/30/2023 19:00	882.2
5/30/2023 19:00	5/30/2023 20:00	874.6
5/30/2023 20:00	5/30/2023 21:00	843.8
5/30/2023 21:00	5/30/2023 22:00	778.1
5/30/2023 22:00	5/30/2023 23:00	665.1
5/30/2023 23:00	5/31/2023 0:00	643.3
5/31/2023 0:00	5/31/2023 1:00	613.2
5/31/2023 1:00	5/31/2023 2:00	581.0
5/31/2023 2:00	5/31/2023 3:00	568.3
5/31/2023 3:00	5/31/2023 4:00	571.7
5/31/2023 4:00	5/31/2023 5:00	584.9
5/31/2023 5:00	5/31/2023 6:00	619.3
5/31/2023 6:00	5/31/2023 7:00	643.6
5/31/2023 7:00	5/31/2023 8:00	746.2
5/31/2023 8:00	5/31/2023 9:00	817.4
5/31/2023 9:00	5/31/2023 10:00	843.2
5/31/2023 10:00	5/31/2023 11:00	855.1
5/31/2023 11:00	5/31/2023 12:00	868.7
5/31/2023 12:00	5/31/2023 13:00	857.5
5/31/2023 13:00	5/31/2023 14:00	835.9
5/31/2023 14:00	5/31/2023 15:00	810.6
5/31/2023 15:00	5/31/2023 16:00	822.4
5/31/2023 16:00	5/31/2023 17:00	868.3
5/31/2023 17:00	5/31/2023 18:00	925.8
5/31/2023 18:00	5/31/2023 19:00	921.7
5/31/2023 19:00	5/31/2023 20:00	903.0
5/31/2023 20:00	5/31/2023 21:00	865.5
5/31/2023 21:00	5/31/2023 22:00	810.0
5/31/2023 22:00	5/31/2023 23:00	751.4
5/31/2023 23:00	6/1/2023 0:00	691.0
6/1/2023 0:00	6/1/2023 1:00	627.4
6/1/2023 1:00	6/1/2023 2:00	587.7
6/1/2023 2:00	6/1/2023 3:00	583.5
6/1/2023 3:00	6/1/2023 4:00	625.5
6/1/2023 4:00	6/1/2023 5:00	618.4
6/1/2023 5:00	6/1/2023 6:00	624.6
6/1/2023 6:00	6/1/2023 7:00	724.5
6/1/2023 7:00	6/1/2023 8:00	798.9
6/1/2023 8:00	6/1/2023 9:00	917.7
6/1/2023 9:00	6/1/2023 10:00	981.7
6/1/2023 10:00	6/1/2023 11:00	1014.6
6/1/2023 11:00	6/1/2023 12:00	1045.9
6/1/2023 12:00	6/1/2023 13:00	1067.5
6/1/2023 13:00	6/1/2023 14:00	1070.4
6/1/2023 14:00	6/1/2023 15:00	1080.4
6/1/2023 15:00	6/1/2023 16:00	1085.7
6/1/2023 16:00	6/1/2023 17:00	1106.1
6/1/2023 17:00	6/1/2023 18:00	1092.4
6/1/2023 18:00	6/1/2023 19:00	1082.1
6/1/2023 19:00	6/1/2023 20:00	1066.7
6/1/2023 20:00	6/1/2023 21:00	1029.1
6/1/2023 21:00	6/1/2023 22:00	997.8
6/1/2023 22:00	6/1/2023 23:00	895.3

Start Time	End Time	ANL_MW
6/1/2023 23:00	6/2/2023 0:00	807.0
6/2/2023 0:00	6/2/2023 1:00	760.7
6/2/2023 1:00	6/2/2023 2:00	714.7
6/2/2023 2:00	6/2/2023 3:00	696.1
6/2/2023 3:00	6/2/2023 4:00	697.1
6/2/2023 4:00	6/2/2023 5:00	692.3
6/2/2023 5:00	6/2/2023 6:00	738.8
6/2/2023 6:00	6/2/2023 7:00	847.2
6/2/2023 7:00	6/2/2023 8:00	993.6
6/2/2023 8:00	6/2/2023 9:00	1042.1
6/2/2023 9:00	6/2/2023 10:00	1046.8
6/2/2023 10:00	6/2/2023 11:00	1044.7
6/2/2023 11:00	6/2/2023 12:00	1020.1
6/2/2023 12:00	6/2/2023 13:00	977.0
6/2/2023 13:00	6/2/2023 14:00	947.0
6/2/2023 14:00	6/2/2023 15:00	897.1
6/2/2023 15:00	6/2/2023 16:00	881.4
6/2/2023 16:00	6/2/2023 17:00	907.1
6/2/2023 17:00	6/2/2023 18:00	947.1
6/2/2023 18:00	6/2/2023 19:00	933.9
6/2/2023 19:00	6/2/2023 20:00	910.1
6/2/2023 20:00	6/2/2023 21:00	909.9
6/2/2023 21:00	6/2/2023 22:00	887.5
6/2/2023 22:00	6/2/2023 23:00	824.9
6/2/2023 23:00	6/3/2023 0:00	783.4
6/3/2023 0:00	6/3/2023 1:00	746.4
6/3/2023 1:00	6/3/2023 2:00	773.3
6/3/2023 2:00	6/3/2023 3:00	760.9
6/3/2023 3:00	6/3/2023 4:00	741.8
6/3/2023 4:00	6/3/2023 5:00	728.6
6/3/2023 5:00	6/3/2023 6:00	731.8
6/3/2023 6:00	6/3/2023 7:00	751.6
6/3/2023 7:00	6/3/2023 8:00	769.1
6/3/2023 8:00	6/3/2023 9:00	844.9
6/3/2023 9:00	6/3/2023 10:00	916.5
6/3/2023 10:00	6/3/2023 11:00	961.5
6/3/2023 11:00	6/3/2023 12:00	982.7
6/3/2023 12:00	6/3/2023 13:00	994.6
6/3/2023 13:00	6/3/2023 14:00	1000.0
6/3/2023 14:00	6/3/2023 15:00	972.6
6/3/2023 15:00	6/3/2023 16:00	972.1
6/3/2023 16:00	6/3/2023 17:00	996.4
6/3/2023 17:00	6/3/2023 18:00	1008.8
6/3/2023 18:00	6/3/2023 19:00	970.7
6/3/2023 19:00	6/3/2023 20:00	932.8
6/3/2023 20:00	6/3/2023 21:00	940.5
6/3/2023 21:00	6/3/2023 22:00	935.0
6/3/2023 22:00	6/3/2023 23:00	887.9
6/3/2023 23:00	6/4/2023 0:00	826.6
6/4/2023 0:00	6/4/2023 1:00	767.7
6/4/2023 1:00	6/4/2023 2:00	746.7
6/4/2023 2:00	6/4/2023 3:00	758.8
6/4/2023 3:00	6/4/2023 4:00	735.4
6/4/2023 4:00	6/4/2023 5:00	755.0
6/4/2023 5:00	6/4/2023 6:00	777.6
6/4/2023 6:00	6/4/2023 7:00	797.8
6/4/2023 7:00	6/4/2023 8:00	858.5
6/4/2023 8:00	6/4/2023 9:00	958.0
6/4/2023 9:00	6/4/2023 10:00	1032.8
6/4/2023 10:00	6/4/2023 11:00	1072.4
6/4/2023 11:00	6/4/2023 12:00	1054.4
6/4/2023 12:00	6/4/2023 13:00	1059.1
6/4/2023 13:00	6/4/2023 14:00	1035.5
6/4/2023 14:00	6/4/2023 15:00	1024.1
6/4/2023 15:00	6/4/2023 16:00	1050.0
6/4/2023 16:00	6/4/2023 17:00	1036.7
6/4/2023 17:00	6/4/2023 18:00	1077.3
6/4/2023 18:00	6/4/2023 19:00	1073.0
6/4/2023 19:00	6/4/2023 20:00	1046.5
6/4/2023 20:00	6/4/2023 21:00	1020.3

Start Time	End Time	ANL_MW
6/4/2023 21:00	6/4/2023 22:00	984.6
6/4/2023 22:00	6/4/2023 23:00	956.4
6/4/2023 23:00	6/5/2023 0:00	878.6
6/5/2023 0:00	6/5/2023 1:00	825.9
6/5/2023 1:00	6/5/2023 2:00	791.4
6/5/2023 2:00	6/5/2023 3:00	778.5
6/5/2023 3:00	6/5/2023 4:00	771.0
6/5/2023 4:00	6/5/2023 5:00	756.6
6/5/2023 5:00	6/5/2023 6:00	798.2
6/5/2023 6:00	6/5/2023 7:00	918.9
6/5/2023 7:00	6/5/2023 8:00	1032.1
6/5/2023 8:00	6/5/2023 9:00	1073.0
6/5/2023 9:00	6/5/2023 10:00	1093.7
6/5/2023 10:00	6/5/2023 11:00	1148.1
6/5/2023 11:00	6/5/2023 12:00	1147.9
6/5/2023 12:00	6/5/2023 13:00	1131.8
6/5/2023 13:00	6/5/2023 14:00	1111.4
6/5/2023 14:00	6/5/2023 15:00	1093.6
6/5/2023 15:00	6/5/2023 16:00	1099.2
6/5/2023 16:00	6/5/2023 17:00	1115.0
6/5/2023 17:00	6/5/2023 18:00	1099.9
6/5/2023 18:00	6/5/2023 19:00	1054.8
6/5/2023 19:00	6/5/2023 20:00	1014.2
6/5/2023 20:00	6/5/2023 21:00	960.4
6/5/2023 21:00	6/5/2023 22:00	882.9
6/5/2023 22:00	6/5/2023 23:00	760.9
6/5/2023 23:00	6/6/2023 0:00	735.1
6/6/2023 0:00	6/6/2023 1:00	719.9
6/6/2023 1:00	6/6/2023 2:00	712.7
6/6/2023 2:00	6/6/2023 3:00	699.0
6/6/2023 3:00	6/6/2023 4:00	694.2
6/6/2023 4:00	6/6/2023 5:00	709.6
6/6/2023 5:00	6/6/2023 6:00	752.3
6/6/2023 6:00	6/6/2023 7:00	924.3
6/6/2023 7:00	6/6/2023 8:00	1043.8
6/6/2023 8:00	6/6/2023 9:00	1073.4
6/6/2023 9:00	6/6/2023 10:00	1104.3
6/6/2023 10:00	6/6/2023 11:00	1120.9
6/6/2023 11:00	6/6/2023 12:00	1114.4
6/6/2023 12:00	6/6/2023 13:00	1085.2
6/6/2023 13:00	6/6/2023 14:00	1072.2
6/6/2023 14:00	6/6/2023 15:00	1057.2
6/6/2023 15:00	6/6/2023 16:00	1085.3
6/6/2023 16:00	6/6/2023 17:00	1131.0
6/6/2023 17:00	6/6/2023 18:00	1133.0
6/6/2023 18:00	6/6/2023 19:00	1090.5
6/6/2023 19:00	6/6/2023 20:00	1072.0
6/6/2023 20:00	6/6/2023 21:00	1074.0
6/6/2023 21:00	6/6/2023 22:00	1072.2
6/6/2023 22:00	6/6/2023 23:00	1004.0
6/6/2023 23:00	6/7/2023 0:00	953.8
6/7/2023 0:00	6/7/2023 1:00	908.4
6/7/2023 1:00	6/7/2023 2:00	864.9
6/7/2023 2:00	6/7/2023 3:00	799.0
6/7/2023 3:00	6/7/2023 4:00	811.0
6/7/2023 4:00	6/7/2023 5:00	809.7
6/7/2023 5:00	6/7/2023 6:00	830.3
6/7/2023 6:00	6/7/2023 7:00	921.2
6/7/2023 7:00	6/7/2023 8:00	1018.8
6/7/2023 8:00	6/7/2023 9:00	1055.7
6/7/2023 9:00	6/7/2023 10:00	1039.6
6/7/2023 10:00	6/7/2023 11:00	1024.6
6/7/2023 11:00	6/7/2023 12:00	1033.0
6/7/2023 12:00	6/7/2023 13:00	1024.8
6/7/2023 13:00	6/7/2023 14:00	1001.3
6/7/2023 14:00	6/7/2023 15:00	975.5
6/7/2023 15:00	6/7/2023 16:00	991.6
6/7/2023 16:00	6/7/2023 17:00	1032.9
6/7/2023 17:00	6/7/2023 18:00	1066.7
6/7/2023 18:00	6/7/2023 19:00	1026.8

Start Time	End Time	ANL_MW
6/7/2023 19:00	6/7/2023 20:00	1023.9
6/7/2023 20:00	6/7/2023 21:00	1040.7
6/7/2023 21:00	6/7/2023 22:00	1033.6
6/7/2023 22:00	6/7/2023 23:00	948.2
6/7/2023 23:00	6/8/2023 0:00	861.3
6/8/2023 0:00	6/8/2023 1:00	813.8
6/8/2023 1:00	6/8/2023 2:00	789.7
6/8/2023 2:00	6/8/2023 3:00	777.4
6/8/2023 3:00	6/8/2023 4:00	781.1
6/8/2023 4:00	6/8/2023 5:00	795.6
6/8/2023 5:00	6/8/2023 6:00	837.2
6/8/2023 6:00	6/8/2023 7:00	953.1
6/8/2023 7:00	6/8/2023 8:00	1084.2
6/8/2023 8:00	6/8/2023 9:00	1112.4
6/8/2023 9:00	6/8/2023 10:00	1099.5
6/8/2023 10:00	6/8/2023 11:00	1080.5
6/8/2023 11:00	6/8/2023 12:00	1068.3
6/8/2023 12:00	6/8/2023 13:00	1044.5
6/8/2023 13:00	6/8/2023 14:00	1037.0
6/8/2023 14:00	6/8/2023 15:00	1011.3
6/8/2023 15:00	6/8/2023 16:00	1004.9
6/8/2023 16:00	6/8/2023 17:00	1030.9
6/8/2023 17:00	6/8/2023 18:00	1052.9
6/8/2023 18:00	6/8/2023 19:00	1042.9
6/8/2023 19:00	6/8/2023 20:00	1049.5
6/8/2023 20:00	6/8/2023 21:00	1048.8
6/8/2023 21:00	6/8/2023 22:00	1039.3
6/8/2023 22:00	6/8/2023 23:00	978.6
6/8/2023 23:00	6/9/2023 0:00	907.5
6/9/2023 0:00	6/9/2023 1:00	847.2
6/9/2023 1:00	6/9/2023 2:00	814.5
6/9/2023 2:00	6/9/2023 3:00	794.5
6/9/2023 3:00	6/9/2023 4:00	792.4
6/9/2023 4:00	6/9/2023 5:00	798.3
6/9/2023 5:00	6/9/2023 6:00	832.9
6/9/2023 6:00	6/9/2023 7:00	936.6
6/9/2023 7:00	6/9/2023 8:00	1051.7
6/9/2023 8:00	6/9/2023 9:00	1088.1
6/9/2023 9:00	6/9/2023 10:00	1080.0
6/9/2023 10:00	6/9/2023 11:00	1063.5
6/9/2023 11:00	6/9/2023 12:00	1056.1
6/9/2023 12:00	6/9/2023 13:00	1041.0
6/9/2023 13:00	6/9/2023 14:00	1014.0
6/9/2023 14:00	6/9/2023 15:00	986.8
6/9/2023 15:00	6/9/2023 16:00	986.7
6/9/2023 16:00	6/9/2023 17:00	1008.1
6/9/2023 17:00	6/9/2023 18:00	1038.7
6/9/2023 18:00	6/9/2023 19:00	1015.5
6/9/2023 19:00	6/9/2023 20:00	1015.6
6/9/2023 20:00	6/9/2023 21:00	1005.5
6/9/2023 21:00	6/9/2023 22:00	987.9
6/9/2023 22:00	6/9/2023 23:00	934.2
6/9/2023 23:00	6/10/2023 0:00	881.1
6/10/2023 0:00	6/10/2023 1:00	832.9
6/10/2023 1:00	6/10/2023 2:00	795.2
6/10/2023 2:00	6/10/2023 3:00	780.7
6/10/2023 3:00	6/10/2023 4:00	782.7
6/10/2023 4:00	6/10/2023 5:00	783.0
6/10/2023 5:00	6/10/2023 6:00	783.6
6/10/2023 6:00	6/10/2023 7:00	819.9
6/10/2023 7:00	6/10/2023 8:00	893.0
6/10/2023 8:00	6/10/2023 9:00	967.5
6/10/2023 9:00	6/10/2023 10:00	1015.8
6/10/2023 10:00	6/10/2023 11:00	1032.7
6/10/2023 11:00	6/10/2023 12:00	1034.8
6/10/2023 12:00	6/10/2023 13:00	1028.2
6/10/2023 13:00	6/10/2023 14:00	1001.4
6/10/2023 14:00	6/10/2023 15:00	960.9
6/10/2023 15:00	6/10/2023 16:00	946.6
6/10/2023 16:00	6/10/2023 17:00	973.0

Start Time	End Time	ANL_MW
6/10/2023 17:00	6/10/2023 18:00	992.4
6/10/2023 18:00	6/10/2023 19:00	963.0
6/10/2023 19:00	6/10/2023 20:00	949.6
6/10/2023 20:00	6/10/2023 21:00	931.9
6/10/2023 21:00	6/10/2023 22:00	933.4
6/10/2023 22:00	6/10/2023 23:00	876.1
6/10/2023 23:00	6/11/2023 0:00	780.3
6/11/2023 0:00	6/11/2023 1:00	708.8
6/11/2023 1:00	6/11/2023 2:00	668.1
6/11/2023 2:00	6/11/2023 3:00	647.7
6/11/2023 3:00	6/11/2023 4:00	639.0
6/11/2023 4:00	6/11/2023 5:00	636.4
6/11/2023 5:00	6/11/2023 6:00	643.1
6/11/2023 6:00	6/11/2023 7:00	688.4
6/11/2023 7:00	6/11/2023 8:00	762.0
6/11/2023 8:00	6/11/2023 9:00	823.2
6/11/2023 9:00	6/11/2023 10:00	868.5
6/11/2023 10:00	6/11/2023 11:00	879.1
6/11/2023 11:00	6/11/2023 12:00	876.8
6/11/2023 12:00	6/11/2023 13:00	874.9
6/11/2023 13:00	6/11/2023 14:00	854.9
6/11/2023 14:00	6/11/2023 15:00	841.6
6/11/2023 15:00	6/11/2023 16:00	853.8
6/11/2023 16:00	6/11/2023 17:00	894.1
6/11/2023 17:00	6/11/2023 18:00	932.8
6/11/2023 18:00	6/11/2023 19:00	934.8
6/11/2023 19:00	6/11/2023 20:00	949.1
6/11/2023 20:00	6/11/2023 21:00	938.8
6/11/2023 21:00	6/11/2023 22:00	915.7
6/11/2023 22:00	6/11/2023 23:00	788.8
6/11/2023 23:00	6/12/2023 0:00	678.3
6/12/2023 0:00	6/12/2023 1:00	591.7
6/12/2023 1:00	6/12/2023 2:00	555.8
6/12/2023 2:00	6/12/2023 3:00	560.4
6/12/2023 3:00	6/12/2023 4:00	580.6
6/12/2023 4:00	6/12/2023 5:00	583.2
6/12/2023 5:00	6/12/2023 6:00	581.9
6/12/2023 6:00	6/12/2023 7:00	680.2
6/12/2023 7:00	6/12/2023 8:00	825.3
6/12/2023 8:00	6/12/2023 9:00	957.1
6/12/2023 9:00	6/12/2023 10:00	994.7
6/12/2023 10:00	6/12/2023 11:00	997.0
6/12/2023 11:00	6/12/2023 12:00	997.9
6/12/2023 12:00	6/12/2023 13:00	993.1
6/12/2023 13:00	6/12/2023 14:00	992.1
6/12/2023 14:00	6/12/2023 15:00	981.6
6/12/2023 15:00	6/12/2023 16:00	982.6
6/12/2023 16:00	6/12/2023 17:00	1019.6
6/12/2023 17:00	6/12/2023 18:00	1059.7
6/12/2023 18:00	6/12/2023 19:00	1059.0
6/12/2023 19:00	6/12/2023 20:00	1045.0
6/12/2023 20:00	6/12/2023 21:00	1031.1
6/12/2023 21:00	6/12/2023 22:00	990.7
6/12/2023 22:00	6/12/2023 23:00	897.1
6/12/2023 23:00	6/13/2023 0:00	791.6
6/13/2023 0:00	6/13/2023 1:00	714.6
6/13/2023 1:00	6/13/2023 2:00	654.7
6/13/2023 2:00	6/13/2023 3:00	660.5
6/13/2023 3:00	6/13/2023 4:00	666.5
6/13/2023 4:00	6/13/2023 5:00	685.4
6/13/2023 5:00	6/13/2023 6:00	722.3
6/13/2023 6:00	6/13/2023 7:00	844.6
6/13/2023 7:00	6/13/2023 8:00	977.9
6/13/2023 8:00	6/13/2023 9:00	1041.4
6/13/2023 9:00	6/13/2023 10:00	1054.9
6/13/2023 10:00	6/13/2023 11:00	1063.7
6/13/2023 11:00	6/13/2023 12:00	1070.2
6/13/2023 12:00	6/13/2023 13:00	1063.7
6/13/2023 13:00	6/13/2023 14:00	1053.6
6/13/2023 14:00	6/13/2023 15:00	1044.7

Start Time	End Time	ANL_MW
6/13/2023 15:00	6/13/2023 16:00	1052.4
6/13/2023 16:00	6/13/2023 17:00	1087.3
6/13/2023 17:00	6/13/2023 18:00	1116.2
6/13/2023 18:00	6/13/2023 19:00	1083.2
6/13/2023 19:00	6/13/2023 20:00	1058.8
6/13/2023 20:00	6/13/2023 21:00	1018.9
6/13/2023 21:00	6/13/2023 22:00	972.7
6/13/2023 22:00	6/13/2023 23:00	850.1
6/13/2023 23:00	6/14/2023 0:00	746.8
6/14/2023 0:00	6/14/2023 1:00	660.0
6/14/2023 1:00	6/14/2023 2:00	619.2
6/14/2023 2:00	6/14/2023 3:00	597.0
6/14/2023 3:00	6/14/2023 4:00	607.7
6/14/2023 4:00	6/14/2023 5:00	604.7
6/14/2023 5:00	6/14/2023 6:00	616.7
6/14/2023 6:00	6/14/2023 7:00	712.5
6/14/2023 7:00	6/14/2023 8:00	825.3
6/14/2023 8:00	6/14/2023 9:00	857.9
6/14/2023 9:00	6/14/2023 10:00	878.3
6/14/2023 10:00	6/14/2023 11:00	870.2
6/14/2023 11:00	6/14/2023 12:00	831.1
6/14/2023 12:00	6/14/2023 13:00	848.4
6/14/2023 13:00	6/14/2023 14:00	849.5
6/14/2023 14:00	6/14/2023 15:00	849.4
6/14/2023 15:00	6/14/2023 16:00	887.7
6/14/2023 16:00	6/14/2023 17:00	943.2
6/14/2023 17:00	6/14/2023 18:00	983.4
6/14/2023 18:00	6/14/2023 19:00	925.2
6/14/2023 19:00	6/14/2023 20:00	914.9
6/14/2023 20:00	6/14/2023 21:00	897.7
6/14/2023 21:00	6/14/2023 22:00	909.7
6/14/2023 22:00	6/14/2023 23:00	840.8
6/14/2023 23:00	6/15/2023 0:00	781.6
6/15/2023 0:00	6/15/2023 1:00	707.3
6/15/2023 1:00	6/15/2023 2:00	688.0
6/15/2023 2:00	6/15/2023 3:00	679.9
6/15/2023 3:00	6/15/2023 4:00	685.8
6/15/2023 4:00	6/15/2023 5:00	687.2
6/15/2023 5:00	6/15/2023 6:00	705.0
6/15/2023 6:00	6/15/2023 7:00	813.9
6/15/2023 7:00	6/15/2023 8:00	941.7
6/15/2023 8:00	6/15/2023 9:00	961.2
6/15/2023 9:00	6/15/2023 10:00	997.1
6/15/2023 10:00	6/15/2023 11:00	1020.4
6/15/2023 11:00	6/15/2023 12:00	1028.2
6/15/2023 12:00	6/15/2023 13:00	1023.9
6/15/2023 13:00	6/15/2023 14:00	1028.4
6/15/2023 14:00	6/15/2023 15:00	1022.5
6/15/2023 15:00	6/15/2023 16:00	1026.1
6/15/2023 16:00	6/15/2023 17:00	1043.0
6/15/2023 17:00	6/15/2023 18:00	1060.0
6/15/2023 18:00	6/15/2023 19:00	1103.0
6/15/2023 19:00	6/15/2023 20:00	1051.2
6/15/2023 20:00	6/15/2023 21:00	1032.1
6/15/2023 21:00	6/15/2023 22:00	1026.2
6/15/2023 22:00	6/15/2023 23:00	976.0
6/15/2023 23:00	6/16/2023 0:00	903.3
6/16/2023 0:00	6/16/2023 1:00	854.3
6/16/2023 1:00	6/16/2023 2:00	835.2
6/16/2023 2:00	6/16/2023 3:00	810.3
6/16/2023 3:00	6/16/2023 4:00	805.3
6/16/2023 4:00	6/16/2023 5:00	771.9
6/16/2023 5:00	6/16/2023 6:00	779.7
6/16/2023 6:00	6/16/2023 7:00	870.3
6/16/2023 7:00	6/16/2023 8:00	1002.2
6/16/2023 8:00	6/16/2023 9:00	1061.5
6/16/2023 9:00	6/16/2023 10:00	1078.6
6/16/2023 10:00	6/16/2023 11:00	1070.5
6/16/2023 11:00	6/16/2023 12:00	1070.7
6/16/2023 12:00	6/16/2023 13:00	1070.0

Start Time	End Time	ANL_MW
6/16/2023 13:00	6/16/2023 14:00	1068.9
6/16/2023 14:00	6/16/2023 15:00	1056.9
6/16/2023 15:00	6/16/2023 16:00	1061.4
6/16/2023 16:00	6/16/2023 17:00	1089.1
6/16/2023 17:00	6/16/2023 18:00	1137.0
6/16/2023 18:00	6/16/2023 19:00	1137.1
6/16/2023 19:00	6/16/2023 20:00	1120.4
6/16/2023 20:00	6/16/2023 21:00	1096.8
6/16/2023 21:00	6/16/2023 22:00	1109.5
6/16/2023 22:00	6/16/2023 23:00	1072.1
6/16/2023 23:00	6/17/2023 0:00	1006.9
6/17/2023 0:00	6/17/2023 1:00	922.9
6/17/2023 1:00	6/17/2023 2:00	890.7
6/17/2023 2:00	6/17/2023 3:00	869.4
6/17/2023 3:00	6/17/2023 4:00	859.2
6/17/2023 4:00	6/17/2023 5:00	866.2
6/17/2023 5:00	6/17/2023 6:00	848.4
6/17/2023 6:00	6/17/2023 7:00	853.0
6/17/2023 7:00	6/17/2023 8:00	932.9
6/17/2023 8:00	6/17/2023 9:00	1029.0
6/17/2023 9:00	6/17/2023 10:00	1031.8
6/17/2023 10:00	6/17/2023 11:00	1010.8
6/17/2023 11:00	6/17/2023 12:00	1000.4
6/17/2023 12:00	6/17/2023 13:00	972.8
6/17/2023 13:00	6/17/2023 14:00	953.9
6/17/2023 14:00	6/17/2023 15:00	923.3
6/17/2023 15:00	6/17/2023 16:00	913.2
6/17/2023 16:00	6/17/2023 17:00	916.6
6/17/2023 17:00	6/17/2023 18:00	920.2
6/17/2023 18:00	6/17/2023 19:00	942.8
6/17/2023 19:00	6/17/2023 20:00	909.4
6/17/2023 20:00	6/17/2023 21:00	866.4
6/17/2023 21:00	6/17/2023 22:00	804.7
6/17/2023 22:00	6/17/2023 23:00	769.6
6/17/2023 23:00	6/18/2023 0:00	712.3
6/18/2023 0:00	6/18/2023 1:00	720.7
6/18/2023 1:00	6/18/2023 2:00	671.2
6/18/2023 2:00	6/18/2023 3:00	674.5
6/18/2023 3:00	6/18/2023 4:00	644.9
6/18/2023 4:00	6/18/2023 5:00	649.0
6/18/2023 5:00	6/18/2023 6:00	679.5
6/18/2023 6:00	6/18/2023 7:00	699.3
6/18/2023 7:00	6/18/2023 8:00	765.0
6/18/2023 8:00	6/18/2023 9:00	852.1
6/18/2023 9:00	6/18/2023 10:00	874.8
6/18/2023 10:00	6/18/2023 11:00	931.9
6/18/2023 11:00	6/18/2023 12:00	922.0
6/18/2023 12:00	6/18/2023 13:00	931.1
6/18/2023 13:00	6/18/2023 14:00	945.6
6/18/2023 14:00	6/18/2023 15:00	963.2
6/18/2023 15:00	6/18/2023 16:00	973.7
6/18/2023 16:00	6/18/2023 17:00	1006.3
6/18/2023 17:00	6/18/2023 18:00	1023.4
6/18/2023 18:00	6/18/2023 19:00	998.2
6/18/2023 19:00	6/18/2023 20:00	995.5
6/18/2023 20:00	6/18/2023 21:00	953.0
6/18/2023 21:00	6/18/2023 22:00	938.9
6/18/2023 22:00	6/18/2023 23:00	865.6
6/18/2023 23:00	6/19/2023 0:00	799.1
6/19/2023 0:00	6/19/2023 1:00	769.3
6/19/2023 1:00	6/19/2023 2:00	734.4
6/19/2023 2:00	6/19/2023 3:00	749.5
6/19/2023 3:00	6/19/2023 4:00	739.2
6/19/2023 4:00	6/19/2023 5:00	734.0
6/19/2023 5:00	6/19/2023 6:00	743.7
6/19/2023 6:00	6/19/2023 7:00	841.4
6/19/2023 7:00	6/19/2023 8:00	952.2
6/19/2023 8:00	6/19/2023 9:00	947.8
6/19/2023 9:00	6/19/2023 10:00	941.9
6/19/2023 10:00	6/19/2023 11:00	962.2

Start Time	End Time	ANL_MW
6/19/2023 11:00	6/19/2023 12:00	951.0
6/19/2023 12:00	6/19/2023 13:00	939.6
6/19/2023 13:00	6/19/2023 14:00	916.3
6/19/2023 14:00	6/19/2023 15:00	944.6
6/19/2023 15:00	6/19/2023 16:00	926.7
6/19/2023 16:00	6/19/2023 17:00	951.9
6/19/2023 17:00	6/19/2023 18:00	932.7
6/19/2023 18:00	6/19/2023 19:00	964.2
6/19/2023 19:00	6/19/2023 20:00	1014.3
6/19/2023 20:00	6/19/2023 21:00	1049.4
6/19/2023 21:00	6/19/2023 22:00	1048.1
6/19/2023 22:00	6/19/2023 23:00	969.5
6/19/2023 23:00	6/20/2023 0:00	915.6
6/20/2023 0:00	6/20/2023 1:00	893.0
6/20/2023 1:00	6/20/2023 2:00	871.8
6/20/2023 2:00	6/20/2023 3:00	849.0
6/20/2023 3:00	6/20/2023 4:00	829.7
6/20/2023 4:00	6/20/2023 5:00	824.5
6/20/2023 5:00	6/20/2023 6:00	820.1
6/20/2023 6:00	6/20/2023 7:00	844.5
6/20/2023 7:00	6/20/2023 8:00	950.0
6/20/2023 8:00	6/20/2023 9:00	981.9
6/20/2023 9:00	6/20/2023 10:00	963.5
6/20/2023 10:00	6/20/2023 11:00	961.4
6/20/2023 11:00	6/20/2023 12:00	926.4
6/20/2023 12:00	6/20/2023 13:00	913.5
6/20/2023 13:00	6/20/2023 14:00	897.7
6/20/2023 14:00	6/20/2023 15:00	865.6
6/20/2023 15:00	6/20/2023 16:00	871.5
6/20/2023 16:00	6/20/2023 17:00	935.2
6/20/2023 17:00	6/20/2023 18:00	1029.0
6/20/2023 18:00	6/20/2023 19:00	1043.2
6/20/2023 19:00	6/20/2023 20:00	1062.4
6/20/2023 20:00	6/20/2023 21:00	1081.3
6/20/2023 21:00	6/20/2023 22:00	1061.8
6/20/2023 22:00	6/20/2023 23:00	991.9
6/20/2023 23:00	6/21/2023 0:00	919.1
6/21/2023 0:00	6/21/2023 1:00	887.5
6/21/2023 1:00	6/21/2023 2:00	861.3
6/21/2023 2:00	6/21/2023 3:00	849.9
6/21/2023 3:00	6/21/2023 4:00	849.3
6/21/2023 4:00	6/21/2023 5:00	882.7
6/21/2023 5:00	6/21/2023 6:00	941.6
6/21/2023 6:00	6/21/2023 7:00	1021.3
6/21/2023 7:00	6/21/2023 8:00	1124.8
6/21/2023 8:00	6/21/2023 9:00	1158.5
6/21/2023 9:00	6/21/2023 10:00	1154.5
6/21/2023 10:00	6/21/2023 11:00	1151.8
6/21/2023 11:00	6/21/2023 12:00	1154.4
6/21/2023 12:00	6/21/2023 13:00	1153.0
6/21/2023 13:00	6/21/2023 14:00	1142.9
6/21/2023 14:00	6/21/2023 15:00	1134.1
6/21/2023 15:00	6/21/2023 16:00	1135.0
6/21/2023 16:00	6/21/2023 17:00	1153.3
6/21/2023 17:00	6/21/2023 18:00	1160.8
6/21/2023 18:00	6/21/2023 19:00	1140.9
6/21/2023 19:00	6/21/2023 20:00	1120.8
6/21/2023 20:00	6/21/2023 21:00	1075.4
6/21/2023 21:00	6/21/2023 22:00	1015.1
6/21/2023 22:00	6/21/2023 23:00	907.7
6/21/2023 23:00	6/22/2023 0:00	780.6
6/22/2023 0:00	6/22/2023 1:00	727.9
6/22/2023 1:00	6/22/2023 2:00	717.6
6/22/2023 2:00	6/22/2023 3:00	692.6
6/22/2023 3:00	6/22/2023 4:00	686.0
6/22/2023 4:00	6/22/2023 5:00	695.7
6/22/2023 5:00	6/22/2023 6:00	728.0
6/22/2023 6:00	6/22/2023 7:00	783.3
6/22/2023 7:00	6/22/2023 8:00	878.4
6/22/2023 8:00	6/22/2023 9:00	966.3

Start Time	End Time	ANL_MW
6/22/2023 9:00	6/22/2023 10:00	1009.6
6/22/2023 10:00	6/22/2023 11:00	1031.7
6/22/2023 11:00	6/22/2023 12:00	1052.7
6/22/2023 12:00	6/22/2023 13:00	1052.1
6/22/2023 13:00	6/22/2023 14:00	1005.9
6/22/2023 14:00	6/22/2023 15:00	966.0
6/22/2023 15:00	6/22/2023 16:00	953.2
6/22/2023 16:00	6/22/2023 17:00	970.5
6/22/2023 17:00	6/22/2023 18:00	993.4
6/22/2023 18:00	6/22/2023 19:00	988.0
6/22/2023 19:00	6/22/2023 20:00	1011.4
6/22/2023 20:00	6/22/2023 21:00	998.5
6/22/2023 21:00	6/22/2023 22:00	940.4
6/22/2023 22:00	6/22/2023 23:00	847.0
6/22/2023 23:00	6/23/2023 0:00	766.8
6/23/2023 0:00	6/23/2023 1:00	719.4
6/23/2023 1:00	6/23/2023 2:00	708.9
6/23/2023 2:00	6/23/2023 3:00	722.4
6/23/2023 3:00	6/23/2023 4:00	716.5
6/23/2023 4:00	6/23/2023 5:00	763.6
6/23/2023 5:00	6/23/2023 6:00	765.2
6/23/2023 6:00	6/23/2023 7:00	783.1
6/23/2023 7:00	6/23/2023 8:00	926.2
6/23/2023 8:00	6/23/2023 9:00	1040.0
6/23/2023 9:00	6/23/2023 10:00	1082.6
6/23/2023 10:00	6/23/2023 11:00	1053.3
6/23/2023 11:00	6/23/2023 12:00	1048.4
6/23/2023 12:00	6/23/2023 13:00	1047.1
6/23/2023 13:00	6/23/2023 14:00	1063.4
6/23/2023 14:00	6/23/2023 15:00	1064.3
6/23/2023 15:00	6/23/2023 16:00	1063.2
6/23/2023 16:00	6/23/2023 17:00	1076.3
6/23/2023 17:00	6/23/2023 18:00	1107.2
6/23/2023 18:00	6/23/2023 19:00	1118.4
6/23/2023 19:00	6/23/2023 20:00	1111.0
6/23/2023 20:00	6/23/2023 21:00	1061.6
6/23/2023 21:00	6/23/2023 22:00	972.3
6/23/2023 22:00	6/23/2023 23:00	886.1
6/23/2023 23:00	6/24/2023 0:00	840.7
6/24/2023 0:00	6/24/2023 1:00	784.1
6/24/2023 1:00	6/24/2023 2:00	770.4
6/24/2023 2:00	6/24/2023 3:00	751.6
6/24/2023 3:00	6/24/2023 4:00	726.8
6/24/2023 4:00	6/24/2023 5:00	723.0
6/24/2023 5:00	6/24/2023 6:00	744.1
6/24/2023 6:00	6/24/2023 7:00	792.7
6/24/2023 7:00	6/24/2023 8:00	811.4
6/24/2023 8:00	6/24/2023 9:00	899.9
6/24/2023 9:00	6/24/2023 10:00	976.7
6/24/2023 10:00	6/24/2023 11:00	1007.3
6/24/2023 11:00	6/24/2023 12:00	1015.8
6/24/2023 12:00	6/24/2023 13:00	996.8
6/24/2023 13:00	6/24/2023 14:00	966.1
6/24/2023 14:00	6/24/2023 15:00	957.1
6/24/2023 15:00	6/24/2023 16:00	959.5
6/24/2023 16:00	6/24/2023 17:00	985.6
6/24/2023 17:00	6/24/2023 18:00	994.3
6/24/2023 18:00	6/24/2023 19:00	1006.2
6/24/2023 19:00	6/24/2023 20:00	990.2
6/24/2023 20:00	6/24/2023 21:00	969.9
6/24/2023 21:00	6/24/2023 22:00	949.3
6/24/2023 22:00	6/24/2023 23:00	874.1
6/24/2023 23:00	6/25/2023 0:00	790.9
6/25/2023 0:00	6/25/2023 1:00	769.1
6/25/2023 1:00	6/25/2023 2:00	735.1
6/25/2023 2:00	6/25/2023 3:00	734.8
6/25/2023 3:00	6/25/2023 4:00	721.7
6/25/2023 4:00	6/25/2023 5:00	708.1
6/25/2023 5:00	6/25/2023 6:00	713.5
6/25/2023 6:00	6/25/2023 7:00	740.0

Start Time	End Time	ANL_MW
6/25/2023 7:00	6/25/2023 8:00	778.2
6/25/2023 8:00	6/25/2023 9:00	773.1
6/25/2023 9:00	6/25/2023 10:00	848.3
6/25/2023 10:00	6/25/2023 11:00	916.5
6/25/2023 11:00	6/25/2023 12:00	974.6
6/25/2023 12:00	6/25/2023 13:00	1039.7
6/25/2023 13:00	6/25/2023 14:00	1069.3
6/25/2023 14:00	6/25/2023 15:00	1062.3
6/25/2023 15:00	6/25/2023 16:00	1144.9
6/25/2023 16:00	6/25/2023 17:00	1175.0
6/25/2023 17:00	6/25/2023 18:00	1215.6
6/25/2023 18:00	6/25/2023 19:00	1221.8
6/25/2023 19:00	6/25/2023 20:00	1211.8
6/25/2023 20:00	6/25/2023 21:00	1198.4
6/25/2023 21:00	6/25/2023 22:00	1168.8
6/25/2023 22:00	6/25/2023 23:00	1087.0
6/25/2023 23:00	6/26/2023 0:00	995.8
6/26/2023 0:00	6/26/2023 1:00	970.6
6/26/2023 1:00	6/26/2023 2:00	937.4
6/26/2023 2:00	6/26/2023 3:00	915.2
6/26/2023 3:00	6/26/2023 4:00	905.2
6/26/2023 4:00	6/26/2023 5:00	900.9
6/26/2023 5:00	6/26/2023 6:00	925.1
6/26/2023 6:00	6/26/2023 7:00	1002.1
6/26/2023 7:00	6/26/2023 8:00	1056.1
6/26/2023 8:00	6/26/2023 9:00	1089.6
6/26/2023 9:00	6/26/2023 10:00	1093.2
6/26/2023 10:00	6/26/2023 11:00	1080.4
6/26/2023 11:00	6/26/2023 12:00	1074.5
6/26/2023 12:00	6/26/2023 13:00	1037.1
6/26/2023 13:00	6/26/2023 14:00	1049.1
6/26/2023 14:00	6/26/2023 15:00	1035.7
6/26/2023 15:00	6/26/2023 16:00	1020.6
6/26/2023 16:00	6/26/2023 17:00	1013.9
6/26/2023 17:00	6/26/2023 18:00	1032.7
6/26/2023 18:00	6/26/2023 19:00	985.7
6/26/2023 19:00	6/26/2023 20:00	947.3
6/26/2023 20:00	6/26/2023 21:00	900.0
6/26/2023 21:00	6/26/2023 22:00	848.3
6/26/2023 22:00	6/26/2023 23:00	800.1
6/26/2023 23:00	6/27/2023 0:00	751.3
6/27/2023 0:00	6/27/2023 1:00	701.5
6/27/2023 1:00	6/27/2023 2:00	701.9
6/27/2023 2:00	6/27/2023 3:00	699.6
6/27/2023 3:00	6/27/2023 4:00	705.0
6/27/2023 4:00	6/27/2023 5:00	723.8
6/27/2023 5:00	6/27/2023 6:00	736.3
6/27/2023 6:00	6/27/2023 7:00	793.4
6/27/2023 7:00	6/27/2023 8:00	919.6
6/27/2023 8:00	6/27/2023 9:00	997.6
6/27/2023 9:00	6/27/2023 10:00	1029.3
6/27/2023 10:00	6/27/2023 11:00	1059.1
6/27/2023 11:00	6/27/2023 12:00	1082.1
6/27/2023 12:00	6/27/2023 13:00	1088.6
6/27/2023 13:00	6/27/2023 14:00	1061.3
6/27/2023 14:00	6/27/2023 15:00	1011.4
6/27/2023 15:00	6/27/2023 16:00	965.7
6/27/2023 16:00	6/27/2023 17:00	983.3
6/27/2023 17:00	6/27/2023 18:00	1006.3
6/27/2023 18:00	6/27/2023 19:00	1001.4
6/27/2023 19:00	6/27/2023 20:00	990.7
6/27/2023 20:00	6/27/2023 21:00	962.0
6/27/2023 21:00	6/27/2023 22:00	955.5
6/27/2023 22:00	6/27/2023 23:00	880.6
6/27/2023 23:00	6/28/2023 0:00	846.1
6/28/2023 0:00	6/28/2023 1:00	758.6
6/28/2023 1:00	6/28/2023 2:00	716.4
6/28/2023 2:00	6/28/2023 3:00	703.7
6/28/2023 3:00	6/28/2023 4:00	674.3
6/28/2023 4:00	6/28/2023 5:00	673.8

Start Time	End Time	ANL_MW
6/28/2023 5:00	6/28/2023 6:00	669.6
6/28/2023 6:00	6/28/2023 7:00	695.8
6/28/2023 7:00	6/28/2023 8:00	725.4
6/28/2023 8:00	6/28/2023 9:00	775.9
6/28/2023 9:00	6/28/2023 10:00	821.4
6/28/2023 10:00	6/28/2023 11:00	861.4
6/28/2023 11:00	6/28/2023 12:00	866.9
6/28/2023 12:00	6/28/2023 13:00	886.0
6/28/2023 13:00	6/28/2023 14:00	842.5
6/28/2023 14:00	6/28/2023 15:00	842.4
6/28/2023 15:00	6/28/2023 16:00	852.4
6/28/2023 16:00	6/28/2023 17:00	886.4
6/28/2023 17:00	6/28/2023 18:00	878.9
6/28/2023 18:00	6/28/2023 19:00	846.4
6/28/2023 19:00	6/28/2023 20:00	831.7
6/28/2023 20:00	6/28/2023 21:00	783.0
6/28/2023 21:00	6/28/2023 22:00	742.1
6/28/2023 22:00	6/28/2023 23:00	674.2
6/28/2023 23:00	6/29/2023 0:00	672.1
6/29/2023 0:00	6/29/2023 1:00	652.5
6/29/2023 1:00	6/29/2023 2:00	609.8
6/29/2023 2:00	6/29/2023 3:00	596.0
6/29/2023 3:00	6/29/2023 4:00	593.8
6/29/2023 4:00	6/29/2023 5:00	591.8
6/29/2023 5:00	6/29/2023 6:00	638.6
6/29/2023 6:00	6/29/2023 7:00	701.6
6/29/2023 7:00	6/29/2023 8:00	708.7
6/29/2023 8:00	6/29/2023 9:00	806.7
6/29/2023 9:00	6/29/2023 10:00	864.2
6/29/2023 10:00	6/29/2023 11:00	903.8
6/29/2023 11:00	6/29/2023 12:00	951.6
6/29/2023 12:00	6/29/2023 13:00	968.5
6/29/2023 13:00	6/29/2023 14:00	972.9
6/29/2023 14:00	6/29/2023 15:00	951.8
6/29/2023 15:00	6/29/2023 16:00	974.2
6/29/2023 16:00	6/29/2023 17:00	1000.5
6/29/2023 17:00	6/29/2023 18:00	1025.3
6/29/2023 18:00	6/29/2023 19:00	1026.3
6/29/2023 19:00	6/29/2023 20:00	988.0
6/29/2023 20:00	6/29/2023 21:00	947.2
6/29/2023 21:00	6/29/2023 22:00	951.8
6/29/2023 22:00	6/29/2023 23:00	914.5
6/29/2023 23:00	6/30/2023 0:00	809.4
6/30/2023 0:00	6/30/2023 1:00	768.5
6/30/2023 1:00	6/30/2023 2:00	750.0
6/30/2023 2:00	6/30/2023 3:00	741.6
6/30/2023 3:00	6/30/2023 4:00	748.8
6/30/2023 4:00	6/30/2023 5:00	746.6
6/30/2023 5:00	6/30/2023 6:00	752.7
6/30/2023 6:00	6/30/2023 7:00	837.1
6/30/2023 7:00	6/30/2023 8:00	954.4
6/30/2023 8:00	6/30/2023 9:00	1001.6
6/30/2023 9:00	6/30/2023 10:00	1030.0
6/30/2023 10:00	6/30/2023 11:00	1068.3
6/30/2023 11:00	6/30/2023 12:00	1124.7
6/30/2023 12:00	6/30/2023 13:00	1102.2
6/30/2023 13:00	6/30/2023 14:00	1055.6
6/30/2023 14:00	6/30/2023 15:00	1044.3
6/30/2023 15:00	6/30/2023 16:00	1038.8
6/30/2023 16:00	6/30/2023 17:00	1092.2
6/30/2023 17:00	6/30/2023 18:00	1112.3
6/30/2023 18:00	6/30/2023 19:00	1115.9
6/30/2023 19:00	6/30/2023 20:00	1090.6
6/30/2023 20:00	6/30/2023 21:00	1028.5
6/30/2023 21:00	6/30/2023 22:00	1021.9
6/30/2023 22:00	6/30/2023 23:00	970.2
6/30/2023 23:00	7/1/2023 0:00	895.7
7/1/2023 0:00	7/1/2023 1:00	849.4
7/1/2023 1:00	7/1/2023 2:00	829.3
7/1/2023 2:00	7/1/2023 3:00	809.0

Start Time	End Time	ANL_MW
7/1/2023 3:00	7/1/2023 4:00	806.0
7/1/2023 4:00	7/1/2023 5:00	806.2
7/1/2023 5:00	7/1/2023 6:00	805.4
7/1/2023 6:00	7/1/2023 7:00	818.8
7/1/2023 7:00	7/1/2023 8:00	849.2
7/1/2023 8:00	7/1/2023 9:00	917.8
7/1/2023 9:00	7/1/2023 10:00	1012.6
7/1/2023 10:00	7/1/2023 11:00	1056.7
7/1/2023 11:00	7/1/2023 12:00	1084.3
7/1/2023 12:00	7/1/2023 13:00	1096.7
7/1/2023 13:00	7/1/2023 14:00	1073.6
7/1/2023 14:00	7/1/2023 15:00	1034.3
7/1/2023 15:00	7/1/2023 16:00	1040.4
7/1/2023 16:00	7/1/2023 17:00	1062.2
7/1/2023 17:00	7/1/2023 18:00	1084.7
7/1/2023 18:00	7/1/2023 19:00	1062.8
7/1/2023 19:00	7/1/2023 20:00	1059.3
7/1/2023 20:00	7/1/2023 21:00	1043.0
7/1/2023 21:00	7/1/2023 22:00	1033.8
7/1/2023 22:00	7/1/2023 23:00	966.6
7/1/2023 23:00	7/2/2023 0:00	901.3
7/2/2023 0:00	7/2/2023 1:00	838.8
7/2/2023 1:00	7/2/2023 2:00	786.8
7/2/2023 2:00	7/2/2023 3:00	781.0
7/2/2023 3:00	7/2/2023 4:00	766.5
7/2/2023 4:00	7/2/2023 5:00	768.6
7/2/2023 5:00	7/2/2023 6:00	778.4
7/2/2023 6:00	7/2/2023 7:00	806.3
7/2/2023 7:00	7/2/2023 8:00	873.5
7/2/2023 8:00	7/2/2023 9:00	960.5
7/2/2023 9:00	7/2/2023 10:00	1031.5
7/2/2023 10:00	7/2/2023 11:00	1024.8
7/2/2023 11:00	7/2/2023 12:00	1041.2
7/2/2023 12:00	7/2/2023 13:00	1040.4
7/2/2023 13:00	7/2/2023 14:00	1033.8
7/2/2023 14:00	7/2/2023 15:00	1020.4
7/2/2023 15:00	7/2/2023 16:00	1010.7
7/2/2023 16:00	7/2/2023 17:00	1046.4
7/2/2023 17:00	7/2/2023 18:00	1069.6
7/2/2023 18:00	7/2/2023 19:00	1056.2
7/2/2023 19:00	7/2/2023 20:00	1042.0
7/2/2023 20:00	7/2/2023 21:00	1018.1
7/2/2023 21:00	7/2/2023 22:00	1027.9
7/2/2023 22:00	7/2/2023 23:00	956.9
7/2/2023 23:00	7/3/2023 0:00	864.2
7/3/2023 0:00	7/3/2023 1:00	766.1
7/3/2023 1:00	7/3/2023 2:00	722.1
7/3/2023 2:00	7/3/2023 3:00	729.2
7/3/2023 3:00	7/3/2023 4:00	698.7
7/3/2023 4:00	7/3/2023 5:00	683.3
7/3/2023 5:00	7/3/2023 6:00	684.6
7/3/2023 6:00	7/3/2023 7:00	708.1
7/3/2023 7:00	7/3/2023 8:00	814.9
7/3/2023 8:00	7/3/2023 9:00	807.1
7/3/2023 9:00	7/3/2023 10:00	846.0
7/3/2023 10:00	7/3/2023 11:00	896.8
7/3/2023 11:00	7/3/2023 12:00	954.0
7/3/2023 12:00	7/3/2023 13:00	988.9
7/3/2023 13:00	7/3/2023 14:00	952.5
7/3/2023 14:00	7/3/2023 15:00	956.2
7/3/2023 15:00	7/3/2023 16:00	988.4
7/3/2023 16:00	7/3/2023 17:00	1031.7
7/3/2023 17:00	7/3/2023 18:00	1060.7
7/3/2023 18:00	7/3/2023 19:00	1045.4
7/3/2023 19:00	7/3/2023 20:00	1017.8
7/3/2023 20:00	7/3/2023 21:00	993.9
7/3/2023 21:00	7/3/2023 22:00	956.2
7/3/2023 22:00	7/3/2023 23:00	905.0
7/3/2023 23:00	7/4/2023 0:00	838.9
7/4/2023 0:00	7/4/2023 1:00	775.3

Start Time	End Time	ANL_MW
7/4/2023 1:00	7/4/2023 2:00	735.8
7/4/2023 2:00	7/4/2023 3:00	733.2
7/4/2023 3:00	7/4/2023 4:00	744.2
7/4/2023 4:00	7/4/2023 5:00	767.0
7/4/2023 5:00	7/4/2023 6:00	820.4
7/4/2023 6:00	7/4/2023 7:00	933.0
7/4/2023 7:00	7/4/2023 8:00	1055.8
7/4/2023 8:00	7/4/2023 9:00	1140.3
7/4/2023 9:00	7/4/2023 10:00	1176.1
7/4/2023 10:00	7/4/2023 11:00	1182.8
7/4/2023 11:00	7/4/2023 12:00	1205.2
7/4/2023 12:00	7/4/2023 13:00	1218.0
7/4/2023 13:00	7/4/2023 14:00	1221.0
7/4/2023 14:00	7/4/2023 15:00	1184.8
7/4/2023 15:00	7/4/2023 16:00	1184.6
7/4/2023 16:00	7/4/2023 17:00	1213.8
7/4/2023 17:00	7/4/2023 18:00	1243.8
7/4/2023 18:00	7/4/2023 19:00	1223.4
7/4/2023 19:00	7/4/2023 20:00	1190.0
7/4/2023 20:00	7/4/2023 21:00	1179.4
7/4/2023 21:00	7/4/2023 22:00	1213.6
7/4/2023 22:00	7/4/2023 23:00	1138.4
7/4/2023 23:00	7/5/2023 0:00	1094.7
7/5/2023 0:00	7/5/2023 1:00	1021.3
7/5/2023 1:00	7/5/2023 2:00	966.4
7/5/2023 2:00	7/5/2023 3:00	939.3
7/5/2023 3:00	7/5/2023 4:00	932.3
7/5/2023 4:00	7/5/2023 5:00	936.2
7/5/2023 5:00	7/5/2023 6:00	965.2
7/5/2023 6:00	7/5/2023 7:00	1050.1
7/5/2023 7:00	7/5/2023 8:00	1162.7
7/5/2023 8:00	7/5/2023 9:00	1227.8
7/5/2023 9:00	7/5/2023 10:00	1268.9
7/5/2023 10:00	7/5/2023 11:00	1281.3
7/5/2023 11:00	7/5/2023 12:00	1285.1
7/5/2023 12:00	7/5/2023 13:00	1225.3
7/5/2023 13:00	7/5/2023 14:00	1191.8
7/5/2023 14:00	7/5/2023 15:00	1176.1
7/5/2023 15:00	7/5/2023 16:00	1181.2
7/5/2023 16:00	7/5/2023 17:00	1196.4
7/5/2023 17:00	7/5/2023 18:00	1223.3
7/5/2023 18:00	7/5/2023 19:00	1249.1
7/5/2023 19:00	7/5/2023 20:00	1238.6
7/5/2023 20:00	7/5/2023 21:00	1271.1
7/5/2023 21:00	7/5/2023 22:00	1241.4
7/5/2023 22:00	7/5/2023 23:00	1172.3
7/5/2023 23:00	7/6/2023 0:00	1092.8
7/6/2023 0:00	7/6/2023 1:00	1004.2
7/6/2023 1:00	7/6/2023 2:00	942.1
7/6/2023 2:00	7/6/2023 3:00	911.0
7/6/2023 3:00	7/6/2023 4:00	907.3
7/6/2023 4:00	7/6/2023 5:00	914.8
7/6/2023 5:00	7/6/2023 6:00	943.2
7/6/2023 6:00	7/6/2023 7:00	1023.9
7/6/2023 7:00	7/6/2023 8:00	1086.2
7/6/2023 8:00	7/6/2023 9:00	1147.7
7/6/2023 9:00	7/6/2023 10:00	1180.5
7/6/2023 10:00	7/6/2023 11:00	1208.0
7/6/2023 11:00	7/6/2023 12:00	1238.5
7/6/2023 12:00	7/6/2023 13:00	1251.4
7/6/2023 13:00	7/6/2023 14:00	1265.6
7/6/2023 14:00	7/6/2023 15:00	1269.3
7/6/2023 15:00	7/6/2023 16:00	1272.1
7/6/2023 16:00	7/6/2023 17:00	1303.0
7/6/2023 17:00	7/6/2023 18:00	1321.3
7/6/2023 18:00	7/6/2023 19:00	1298.1
7/6/2023 19:00	7/6/2023 20:00	1263.8
7/6/2023 20:00	7/6/2023 21:00	1224.3
7/6/2023 21:00	7/6/2023 22:00	1204.3
7/6/2023 22:00	7/6/2023 23:00	1158.7

Start Time	End Time	ANL_MW
7/6/2023 23:00	7/7/2023 0:00	1044.0
7/7/2023 0:00	7/7/2023 1:00	944.0
7/7/2023 1:00	7/7/2023 2:00	895.3
7/7/2023 2:00	7/7/2023 3:00	900.8
7/7/2023 3:00	7/7/2023 4:00	901.7
7/7/2023 4:00	7/7/2023 5:00	903.8
7/7/2023 5:00	7/7/2023 6:00	927.5
7/7/2023 6:00	7/7/2023 7:00	997.2
7/7/2023 7:00	7/7/2023 8:00	1072.9
7/7/2023 8:00	7/7/2023 9:00	1178.3
7/7/2023 9:00	7/7/2023 10:00	1227.3
7/7/2023 10:00	7/7/2023 11:00	1282.3
7/7/2023 11:00	7/7/2023 12:00	1317.6
7/7/2023 12:00	7/7/2023 13:00	1347.4
7/7/2023 13:00	7/7/2023 14:00	1342.3
7/7/2023 14:00	7/7/2023 15:00	1331.4
7/7/2023 15:00	7/7/2023 16:00	1314.8
7/7/2023 16:00	7/7/2023 17:00	1311.4
7/7/2023 17:00	7/7/2023 18:00	1305.8
7/7/2023 18:00	7/7/2023 19:00	1276.7
7/7/2023 19:00	7/7/2023 20:00	1239.8
7/7/2023 20:00	7/7/2023 21:00	1221.1
7/7/2023 21:00	7/7/2023 22:00	1177.5
7/7/2023 22:00	7/7/2023 23:00	1098.7
7/7/2023 23:00	7/8/2023 0:00	1007.9
7/8/2023 0:00	7/8/2023 1:00	928.2
7/8/2023 1:00	7/8/2023 2:00	869.0
7/8/2023 2:00	7/8/2023 3:00	840.0
7/8/2023 3:00	7/8/2023 4:00	834.6
7/8/2023 4:00	7/8/2023 5:00	807.1
7/8/2023 5:00	7/8/2023 6:00	834.1
7/8/2023 6:00	7/8/2023 7:00	851.5
7/8/2023 7:00	7/8/2023 8:00	923.0
7/8/2023 8:00	7/8/2023 9:00	1036.2
7/8/2023 9:00	7/8/2023 10:00	1132.9
7/8/2023 10:00	7/8/2023 11:00	1178.2
7/8/2023 11:00	7/8/2023 12:00	1216.4
7/8/2023 12:00	7/8/2023 13:00	1181.4
7/8/2023 13:00	7/8/2023 14:00	1184.9
7/8/2023 14:00	7/8/2023 15:00	1177.5
7/8/2023 15:00	7/8/2023 16:00	1180.3
7/8/2023 16:00	7/8/2023 17:00	1211.5
7/8/2023 17:00	7/8/2023 18:00	1236.2
7/8/2023 18:00	7/8/2023 19:00	1221.1
7/8/2023 19:00	7/8/2023 20:00	1197.9
7/8/2023 20:00	7/8/2023 21:00	1154.2
7/8/2023 21:00	7/8/2023 22:00	1116.2
7/8/2023 22:00	7/8/2023 23:00	1044.4
7/8/2023 23:00	7/9/2023 0:00	1024.1
7/9/2023 0:00	7/9/2023 1:00	962.0
7/9/2023 1:00	7/9/2023 2:00	929.5
7/9/2023 2:00	7/9/2023 3:00	925.1
7/9/2023 3:00	7/9/2023 4:00	923.7
7/9/2023 4:00	7/9/2023 5:00	909.6
7/9/2023 5:00	7/9/2023 6:00	920.6
7/9/2023 6:00	7/9/2023 7:00	891.5
7/9/2023 7:00	7/9/2023 8:00	950.9
7/9/2023 8:00	7/9/2023 9:00	1039.1
7/9/2023 9:00	7/9/2023 10:00	1117.5
7/9/2023 10:00	7/9/2023 11:00	1175.7
7/9/2023 11:00	7/9/2023 12:00	1214.5
7/9/2023 12:00	7/9/2023 13:00	1237.4
7/9/2023 13:00	7/9/2023 14:00	1234.3
7/9/2023 14:00	7/9/2023 15:00	1232.3
7/9/2023 15:00	7/9/2023 16:00	1236.1
7/9/2023 16:00	7/9/2023 17:00	1286.6
7/9/2023 17:00	7/9/2023 18:00	1310.1
7/9/2023 18:00	7/9/2023 19:00	1272.5
7/9/2023 19:00	7/9/2023 20:00	1245.1
7/9/2023 20:00	7/9/2023 21:00	1227.6

Start Time	End Time	ANL_MW
7/9/2023 21:00	7/9/2023 22:00	1204.5
7/9/2023 22:00	7/9/2023 23:00	1106.7
7/9/2023 23:00	7/10/2023 0:00	1034.8
7/10/2023 0:00	7/10/2023 1:00	954.4
7/10/2023 1:00	7/10/2023 2:00	903.0
7/10/2023 2:00	7/10/2023 3:00	858.6
7/10/2023 3:00	7/10/2023 4:00	824.4
7/10/2023 4:00	7/10/2023 5:00	838.5
7/10/2023 5:00	7/10/2023 6:00	809.0
7/10/2023 6:00	7/10/2023 7:00	863.2
7/10/2023 7:00	7/10/2023 8:00	988.1
7/10/2023 8:00	7/10/2023 9:00	1067.5
7/10/2023 9:00	7/10/2023 10:00	1082.5
7/10/2023 10:00	7/10/2023 11:00	1097.2
7/10/2023 11:00	7/10/2023 12:00	1110.4
7/10/2023 12:00	7/10/2023 13:00	1111.9
7/10/2023 13:00	7/10/2023 14:00	1102.7
7/10/2023 14:00	7/10/2023 15:00	1085.1
7/10/2023 15:00	7/10/2023 16:00	1069.6
7/10/2023 16:00	7/10/2023 17:00	1082.1
7/10/2023 17:00	7/10/2023 18:00	1079.1
7/10/2023 18:00	7/10/2023 19:00	1032.7
7/10/2023 19:00	7/10/2023 20:00	974.8
7/10/2023 20:00	7/10/2023 21:00	953.3
7/10/2023 21:00	7/10/2023 22:00	897.8
7/10/2023 22:00	7/10/2023 23:00	804.1
7/10/2023 23:00	7/11/2023 0:00	711.6
7/11/2023 0:00	7/11/2023 1:00	641.8
7/11/2023 1:00	7/11/2023 2:00	600.9
7/11/2023 2:00	7/11/2023 3:00	600.2
7/11/2023 3:00	7/11/2023 4:00	606.4
7/11/2023 4:00	7/11/2023 5:00	604.2
7/11/2023 5:00	7/11/2023 6:00	626.9
7/11/2023 6:00	7/11/2023 7:00	659.8
7/11/2023 7:00	7/11/2023 8:00	719.8
7/11/2023 8:00	7/11/2023 9:00	788.6
7/11/2023 9:00	7/11/2023 10:00	847.3
7/11/2023 10:00	7/11/2023 11:00	882.1
7/11/2023 11:00	7/11/2023 12:00	910.4
7/11/2023 12:00	7/11/2023 13:00	935.6
7/11/2023 13:00	7/11/2023 14:00	946.9
7/11/2023 14:00	7/11/2023 15:00	963.0
7/11/2023 15:00	7/11/2023 16:00	976.1
7/11/2023 16:00	7/11/2023 17:00	1023.7
7/11/2023 17:00	7/11/2023 18:00	1049.9
7/11/2023 18:00	7/11/2023 19:00	1045.6
7/11/2023 19:00	7/11/2023 20:00	1072.0
7/11/2023 20:00	7/11/2023 21:00	1059.4
7/11/2023 21:00	7/11/2023 22:00	1057.1
7/11/2023 22:00	7/11/2023 23:00	993.4
7/11/2023 23:00	7/12/2023 0:00	926.7
7/12/2023 0:00	7/12/2023 1:00	876.4
7/12/2023 1:00	7/12/2023 2:00	846.0
7/12/2023 2:00	7/12/2023 3:00	828.8
7/12/2023 3:00	7/12/2023 4:00	810.0
7/12/2023 4:00	7/12/2023 5:00	818.6
7/12/2023 5:00	7/12/2023 6:00	863.2
7/12/2023 6:00	7/12/2023 7:00	949.2
7/12/2023 7:00	7/12/2023 8:00	1062.5
7/12/2023 8:00	7/12/2023 9:00	1137.8
7/12/2023 9:00	7/12/2023 10:00	1183.4
7/12/2023 10:00	7/12/2023 11:00	1168.2
7/12/2023 11:00	7/12/2023 12:00	1177.3
7/12/2023 12:00	7/12/2023 13:00	1203.1
7/12/2023 13:00	7/12/2023 14:00	1211.2
7/12/2023 14:00	7/12/2023 15:00	1221.1
7/12/2023 15:00	7/12/2023 16:00	1235.6
7/12/2023 16:00	7/12/2023 17:00	1280.1
7/12/2023 17:00	7/12/2023 18:00	1311.2
7/12/2023 18:00	7/12/2023 19:00	1294.1

Start Time	End Time	ANL_MW
7/12/2023 19:00	7/12/2023 20:00	1257.0
7/12/2023 20:00	7/12/2023 21:00	1212.9
7/12/2023 21:00	7/12/2023 22:00	1229.6
7/12/2023 22:00	7/12/2023 23:00	1139.3
7/12/2023 23:00	7/13/2023 0:00	1042.8
7/13/2023 0:00	7/13/2023 1:00	963.2
7/13/2023 1:00	7/13/2023 2:00	916.4
7/13/2023 2:00	7/13/2023 3:00	887.5
7/13/2023 3:00	7/13/2023 4:00	867.3
7/13/2023 4:00	7/13/2023 5:00	832.6
7/13/2023 5:00	7/13/2023 6:00	876.9
7/13/2023 6:00	7/13/2023 7:00	948.6
7/13/2023 7:00	7/13/2023 8:00	1059.4
7/13/2023 8:00	7/13/2023 9:00	1143.9
7/13/2023 9:00	7/13/2023 10:00	1192.4
7/13/2023 10:00	7/13/2023 11:00	1233.7
7/13/2023 11:00	7/13/2023 12:00	1261.6
7/13/2023 12:00	7/13/2023 13:00	1278.3
7/13/2023 13:00	7/13/2023 14:00	1280.9
7/13/2023 14:00	7/13/2023 15:00	1282.4
7/13/2023 15:00	7/13/2023 16:00	1268.1
7/13/2023 16:00	7/13/2023 17:00	1286.4
7/13/2023 17:00	7/13/2023 18:00	1298.8
7/13/2023 18:00	7/13/2023 19:00	1276.5
7/13/2023 19:00	7/13/2023 20:00	1241.1
7/13/2023 20:00	7/13/2023 21:00	1217.4
7/13/2023 21:00	7/13/2023 22:00	1192.3
7/13/2023 22:00	7/13/2023 23:00	1117.3
7/13/2023 23:00	7/14/2023 0:00	1035.8
7/14/2023 0:00	7/14/2023 1:00	997.4
7/14/2023 1:00	7/14/2023 2:00	935.5
7/14/2023 2:00	7/14/2023 3:00	921.3
7/14/2023 3:00	7/14/2023 4:00	916.8
7/14/2023 4:00	7/14/2023 5:00	913.2
7/14/2023 5:00	7/14/2023 6:00	935.5
7/14/2023 6:00	7/14/2023 7:00	1004.5
7/14/2023 7:00	7/14/2023 8:00	1066.6
7/14/2023 8:00	7/14/2023 9:00	1177.8
7/14/2023 9:00	7/14/2023 10:00	1248.5
7/14/2023 10:00	7/14/2023 11:00	1291.8
7/14/2023 11:00	7/14/2023 12:00	1239.9
7/14/2023 12:00	7/14/2023 13:00	1237.7
7/14/2023 13:00	7/14/2023 14:00	1222.0
7/14/2023 14:00	7/14/2023 15:00	1202.5
7/14/2023 15:00	7/14/2023 16:00	1194.9
7/14/2023 16:00	7/14/2023 17:00	1202.8
7/14/2023 17:00	7/14/2023 18:00	1200.1
7/14/2023 18:00	7/14/2023 19:00	1171.3
7/14/2023 19:00	7/14/2023 20:00	1108.8
7/14/2023 20:00	7/14/2023 21:00	1055.5
7/14/2023 21:00	7/14/2023 22:00	1036.4
7/14/2023 22:00	7/14/2023 23:00	992.3
7/14/2023 23:00	7/15/2023 0:00	940.3
7/15/2023 0:00	7/15/2023 1:00	876.7
7/15/2023 1:00	7/15/2023 2:00	844.6
7/15/2023 2:00	7/15/2023 3:00	874.8
7/15/2023 3:00	7/15/2023 4:00	900.1
7/15/2023 4:00	7/15/2023 5:00	883.8
7/15/2023 5:00	7/15/2023 6:00	884.7
7/15/2023 6:00	7/15/2023 7:00	907.8
7/15/2023 7:00	7/15/2023 8:00	966.3
7/15/2023 8:00	7/15/2023 9:00	1076.0
7/15/2023 9:00	7/15/2023 10:00	1113.4
7/15/2023 10:00	7/15/2023 11:00	1142.5
7/15/2023 11:00	7/15/2023 12:00	1159.8
7/15/2023 12:00	7/15/2023 13:00	1192.1
7/15/2023 13:00	7/15/2023 14:00	1193.8
7/15/2023 14:00	7/15/2023 15:00	1210.7
7/15/2023 15:00	7/15/2023 16:00	1205.6
7/15/2023 16:00	7/15/2023 17:00	1228.1

Start Time	End Time	ANL_MW
7/15/2023 17:00	7/15/2023 18:00	1254.1
7/15/2023 18:00	7/15/2023 19:00	1215.3
7/15/2023 19:00	7/15/2023 20:00	1191.0
7/15/2023 20:00	7/15/2023 21:00	1149.3
7/15/2023 21:00	7/15/2023 22:00	1118.9
7/15/2023 22:00	7/15/2023 23:00	1027.6
7/15/2023 23:00	7/16/2023 0:00	989.9
7/16/2023 0:00	7/16/2023 1:00	923.8
7/16/2023 1:00	7/16/2023 2:00	876.5
7/16/2023 2:00	7/16/2023 3:00	853.4
7/16/2023 3:00	7/16/2023 4:00	846.5
7/16/2023 4:00	7/16/2023 5:00	820.8
7/16/2023 5:00	7/16/2023 6:00	814.3
7/16/2023 6:00	7/16/2023 7:00	821.6
7/16/2023 7:00	7/16/2023 8:00	908.7
7/16/2023 8:00	7/16/2023 9:00	1023.6
7/16/2023 9:00	7/16/2023 10:00	1051.7
7/16/2023 10:00	7/16/2023 11:00	1086.3
7/16/2023 11:00	7/16/2023 12:00	1108.9
7/16/2023 12:00	7/16/2023 13:00	1084.7
7/16/2023 13:00	7/16/2023 14:00	1049.9
7/16/2023 14:00	7/16/2023 15:00	1032.3
7/16/2023 15:00	7/16/2023 16:00	1040.1
7/16/2023 16:00	7/16/2023 17:00	1083.7
7/16/2023 17:00	7/16/2023 18:00	1122.7
7/16/2023 18:00	7/16/2023 19:00	1135.0
7/16/2023 19:00	7/16/2023 20:00	1133.0
7/16/2023 20:00	7/16/2023 21:00	1096.9
7/16/2023 21:00	7/16/2023 22:00	1047.8
7/16/2023 22:00	7/16/2023 23:00	933.1
7/16/2023 23:00	7/17/2023 0:00	831.8
7/17/2023 0:00	7/17/2023 1:00	824.3
7/17/2023 1:00	7/17/2023 2:00	787.0
7/17/2023 2:00	7/17/2023 3:00	759.6
7/17/2023 3:00	7/17/2023 4:00	782.7
7/17/2023 4:00	7/17/2023 5:00	779.2
7/17/2023 5:00	7/17/2023 6:00	829.4
7/17/2023 6:00	7/17/2023 7:00	859.7
7/17/2023 7:00	7/17/2023 8:00	886.6
7/17/2023 8:00	7/17/2023 9:00	964.3
7/17/2023 9:00	7/17/2023 10:00	976.5
7/17/2023 10:00	7/17/2023 11:00	1009.8
7/17/2023 11:00	7/17/2023 12:00	1042.9
7/17/2023 12:00	7/17/2023 13:00	1052.4
7/17/2023 13:00	7/17/2023 14:00	1064.0
7/17/2023 14:00	7/17/2023 15:00	1048.1
7/17/2023 15:00	7/17/2023 16:00	1054.3
7/17/2023 16:00	7/17/2023 17:00	1021.1
7/17/2023 17:00	7/17/2023 18:00	1062.3
7/17/2023 18:00	7/17/2023 19:00	1054.5
7/17/2023 19:00	7/17/2023 20:00	1035.3
7/17/2023 20:00	7/17/2023 21:00	1018.8
7/17/2023 21:00	7/17/2023 22:00	997.6
7/17/2023 22:00	7/17/2023 23:00	977.5
7/17/2023 23:00	7/18/2023 0:00	921.8
7/18/2023 0:00	7/18/2023 1:00	847.4
7/18/2023 1:00	7/18/2023 2:00	825.3
7/18/2023 2:00	7/18/2023 3:00	874.9
7/18/2023 3:00	7/18/2023 4:00	865.3
7/18/2023 4:00	7/18/2023 5:00	877.6
7/18/2023 5:00	7/18/2023 6:00	916.2
7/18/2023 6:00	7/18/2023 7:00	988.3
7/18/2023 7:00	7/18/2023 8:00	1119.5
7/18/2023 8:00	7/18/2023 9:00	1181.4
7/18/2023 9:00	7/18/2023 10:00	1207.9
7/18/2023 10:00	7/18/2023 11:00	1237.6
7/18/2023 11:00	7/18/2023 12:00	1267.4
7/18/2023 12:00	7/18/2023 13:00	1266.2
7/18/2023 13:00	7/18/2023 14:00	1265.6
7/18/2023 14:00	7/18/2023 15:00	1299.1

Start Time	End Time	ANL_MW
7/18/2023 15:00	7/18/2023 16:00	1349.1
7/18/2023 16:00	7/18/2023 17:00	1380.7
7/18/2023 17:00	7/18/2023 18:00	1359.6
7/18/2023 18:00	7/18/2023 19:00	1329.8
7/18/2023 19:00	7/18/2023 20:00	1304.8
7/18/2023 20:00	7/18/2023 21:00	1236.7
7/18/2023 21:00	7/18/2023 22:00	1197.8
7/18/2023 22:00	7/18/2023 23:00	1086.4
7/18/2023 23:00	7/19/2023 0:00	997.4
7/19/2023 0:00	7/19/2023 1:00	927.1
7/19/2023 1:00	7/19/2023 2:00	879.3
7/19/2023 2:00	7/19/2023 3:00	883.7
7/19/2023 3:00	7/19/2023 4:00	883.3
7/19/2023 4:00	7/19/2023 5:00	895.9
7/19/2023 5:00	7/19/2023 6:00	915.5
7/19/2023 6:00	7/19/2023 7:00	997.8
7/19/2023 7:00	7/19/2023 8:00	1128.0
7/19/2023 8:00	7/19/2023 9:00	1182.9
7/19/2023 9:00	7/19/2023 10:00	1195.2
7/19/2023 10:00	7/19/2023 11:00	1219.8
7/19/2023 11:00	7/19/2023 12:00	1210.4
7/19/2023 12:00	7/19/2023 13:00	1181.1
7/19/2023 13:00	7/19/2023 14:00	1233.1
7/19/2023 14:00	7/19/2023 15:00	1291.7
7/19/2023 15:00	7/19/2023 16:00	1284.2
7/19/2023 16:00	7/19/2023 17:00	1328.7
7/19/2023 17:00	7/19/2023 18:00	1379.6
7/19/2023 18:00	7/19/2023 19:00	1354.7
7/19/2023 19:00	7/19/2023 20:00	1316.8
7/19/2023 20:00	7/19/2023 21:00	1294.4
7/19/2023 21:00	7/19/2023 22:00	1262.5
7/19/2023 22:00	7/19/2023 23:00	1202.9
7/19/2023 23:00	7/20/2023 0:00	1132.1
7/20/2023 0:00	7/20/2023 1:00	1051.7
7/20/2023 1:00	7/20/2023 2:00	1001.5
7/20/2023 2:00	7/20/2023 3:00	983.5
7/20/2023 3:00	7/20/2023 4:00	976.5
7/20/2023 4:00	7/20/2023 5:00	989.9
7/20/2023 5:00	7/20/2023 6:00	1031.8
7/20/2023 6:00	7/20/2023 7:00	1114.3
7/20/2023 7:00	7/20/2023 8:00	1232.2
7/20/2023 8:00	7/20/2023 9:00	1251.2
7/20/2023 9:00	7/20/2023 10:00	1298.5
7/20/2023 10:00	7/20/2023 11:00	1257.5
7/20/2023 11:00	7/20/2023 12:00	1278.9
7/20/2023 12:00	7/20/2023 13:00	1293.8
7/20/2023 13:00	7/20/2023 14:00	1304.9
7/20/2023 14:00	7/20/2023 15:00	1297.7
7/20/2023 15:00	7/20/2023 16:00	1303.3
7/20/2023 16:00	7/20/2023 17:00	1327.8
7/20/2023 17:00	7/20/2023 18:00	1332.4
7/20/2023 18:00	7/20/2023 19:00	1301.4
7/20/2023 19:00	7/20/2023 20:00	1263.9
7/20/2023 20:00	7/20/2023 21:00	1249.1
7/20/2023 21:00	7/20/2023 22:00	1294.0
7/20/2023 22:00	7/20/2023 23:00	1212.9
7/20/2023 23:00	7/21/2023 0:00	1159.1
7/21/2023 0:00	7/21/2023 1:00	1086.5
7/21/2023 1:00	7/21/2023 2:00	1023.0
7/21/2023 2:00	7/21/2023 3:00	989.9
7/21/2023 3:00	7/21/2023 4:00	975.6
7/21/2023 4:00	7/21/2023 5:00	975.3
7/21/2023 5:00	7/21/2023 6:00	989.5
7/21/2023 6:00	7/21/2023 7:00	1065.2
7/21/2023 7:00	7/21/2023 8:00	1166.1
7/21/2023 8:00	7/21/2023 9:00	1242.0
7/21/2023 9:00	7/21/2023 10:00	1234.6
7/21/2023 10:00	7/21/2023 11:00	1251.7
7/21/2023 11:00	7/21/2023 12:00	1252.9
7/21/2023 12:00	7/21/2023 13:00	1235.4

Start Time	End Time	ANL_MW
7/21/2023 13:00	7/21/2023 14:00	1200.0
7/21/2023 14:00	7/21/2023 15:00	1152.3
7/21/2023 15:00	7/21/2023 16:00	1132.8
7/21/2023 16:00	7/21/2023 17:00	1102.3
7/21/2023 17:00	7/21/2023 18:00	1087.0
7/21/2023 18:00	7/21/2023 19:00	1101.3
7/21/2023 19:00	7/21/2023 20:00	1051.5
7/21/2023 20:00	7/21/2023 21:00	1042.5
7/21/2023 21:00	7/21/2023 22:00	1037.8
7/21/2023 22:00	7/21/2023 23:00	1019.7
7/21/2023 23:00	7/22/2023 0:00	944.3
7/22/2023 0:00	7/22/2023 1:00	874.4
7/22/2023 1:00	7/22/2023 2:00	876.6
7/22/2023 2:00	7/22/2023 3:00	879.5
7/22/2023 3:00	7/22/2023 4:00	806.4
7/22/2023 4:00	7/22/2023 5:00	770.0
7/22/2023 5:00	7/22/2023 6:00	811.8
7/22/2023 6:00	7/22/2023 7:00	841.8
7/22/2023 7:00	7/22/2023 8:00	885.2
7/22/2023 8:00	7/22/2023 9:00	940.1
7/22/2023 9:00	7/22/2023 10:00	953.9
7/22/2023 10:00	7/22/2023 11:00	1038.3
7/22/2023 11:00	7/22/2023 12:00	1110.0
7/22/2023 12:00	7/22/2023 13:00	1099.9
7/22/2023 13:00	7/22/2023 14:00	1100.1
7/22/2023 14:00	7/22/2023 15:00	1111.2
7/22/2023 15:00	7/22/2023 16:00	1149.9
7/22/2023 16:00	7/22/2023 17:00	1183.6
7/22/2023 17:00	7/22/2023 18:00	1214.3
7/22/2023 18:00	7/22/2023 19:00	1181.2
7/22/2023 19:00	7/22/2023 20:00	1114.3
7/22/2023 20:00	7/22/2023 21:00	1055.1
7/22/2023 21:00	7/22/2023 22:00	1096.3
7/22/2023 22:00	7/22/2023 23:00	1039.1
7/22/2023 23:00	7/23/2023 0:00	981.4
7/23/2023 0:00	7/23/2023 1:00	951.9
7/23/2023 1:00	7/23/2023 2:00	928.1
7/23/2023 2:00	7/23/2023 3:00	912.2
7/23/2023 3:00	7/23/2023 4:00	922.7
7/23/2023 4:00	7/23/2023 5:00	930.3
7/23/2023 5:00	7/23/2023 6:00	942.3
7/23/2023 6:00	7/23/2023 7:00	957.9
7/23/2023 7:00	7/23/2023 8:00	1014.6
7/23/2023 8:00	7/23/2023 9:00	1108.5
7/23/2023 9:00	7/23/2023 10:00	1199.3
7/23/2023 10:00	7/23/2023 11:00	1239.7
7/23/2023 11:00	7/23/2023 12:00	1262.3
7/23/2023 12:00	7/23/2023 13:00	1280.8
7/23/2023 13:00	7/23/2023 14:00	1269.2
7/23/2023 14:00	7/23/2023 15:00	1281.1
7/23/2023 15:00	7/23/2023 16:00	1283.6
7/23/2023 16:00	7/23/2023 17:00	1280.5
7/23/2023 17:00	7/23/2023 18:00	1301.6
7/23/2023 18:00	7/23/2023 19:00	1286.2
7/23/2023 19:00	7/23/2023 20:00	1268.2
7/23/2023 20:00	7/23/2023 21:00	1247.7
7/23/2023 21:00	7/23/2023 22:00	1257.7
7/23/2023 22:00	7/23/2023 23:00	1183.3
7/23/2023 23:00	7/24/2023 0:00	1126.1
7/24/2023 0:00	7/24/2023 1:00	1044.7
7/24/2023 1:00	7/24/2023 2:00	983.8
7/24/2023 2:00	7/24/2023 3:00	941.3
7/24/2023 3:00	7/24/2023 4:00	928.8
7/24/2023 4:00	7/24/2023 5:00	940.6
7/24/2023 5:00	7/24/2023 6:00	960.5
7/24/2023 6:00	7/24/2023 7:00	1028.9
7/24/2023 7:00	7/24/2023 8:00	1114.4
7/24/2023 8:00	7/24/2023 9:00	1215.3
7/24/2023 9:00	7/24/2023 10:00	1302.5
7/24/2023 10:00	7/24/2023 11:00	1349.8

Start Time	End Time	ANL_MW
7/24/2023 11:00	7/24/2023 12:00	1380.4
7/24/2023 12:00	7/24/2023 13:00	1385.8
7/24/2023 13:00	7/24/2023 14:00	1377.8
7/24/2023 14:00	7/24/2023 15:00	1352.7
7/24/2023 15:00	7/24/2023 16:00	1341.3
7/24/2023 16:00	7/24/2023 17:00	1358.7
7/24/2023 17:00	7/24/2023 18:00	1375.1
7/24/2023 18:00	7/24/2023 19:00	1361.4
7/24/2023 19:00	7/24/2023 20:00	1315.3
7/24/2023 20:00	7/24/2023 21:00	1259.8
7/24/2023 21:00	7/24/2023 22:00	1238.6
7/24/2023 22:00	7/24/2023 23:00	1137.2
7/24/2023 23:00	7/25/2023 0:00	1079.2
7/25/2023 0:00	7/25/2023 1:00	988.8
7/25/2023 1:00	7/25/2023 2:00	923.5
7/25/2023 2:00	7/25/2023 3:00	903.6
7/25/2023 3:00	7/25/2023 4:00	900.5
7/25/2023 4:00	7/25/2023 5:00	903.0
7/25/2023 5:00	7/25/2023 6:00	934.9
7/25/2023 6:00	7/25/2023 7:00	1015.5
7/25/2023 7:00	7/25/2023 8:00	1135.6
7/25/2023 8:00	7/25/2023 9:00	1192.2
7/25/2023 9:00	7/25/2023 10:00	1249.3
7/25/2023 10:00	7/25/2023 11:00	1215.7
7/25/2023 11:00	7/25/2023 12:00	1231.5
7/25/2023 12:00	7/25/2023 13:00	1218.6
7/25/2023 13:00	7/25/2023 14:00	1215.5
7/25/2023 14:00	7/25/2023 15:00	1212.5
7/25/2023 15:00	7/25/2023 16:00	1221.5
7/25/2023 16:00	7/25/2023 17:00	1245.8
7/25/2023 17:00	7/25/2023 18:00	1257.8
7/25/2023 18:00	7/25/2023 19:00	1232.5
7/25/2023 19:00	7/25/2023 20:00	1238.1
7/25/2023 20:00	7/25/2023 21:00	1194.0
7/25/2023 21:00	7/25/2023 22:00	1174.4
7/25/2023 22:00	7/25/2023 23:00	1113.0
7/25/2023 23:00	7/26/2023 0:00	1026.7
7/26/2023 0:00	7/26/2023 1:00	960.4
7/26/2023 1:00	7/26/2023 2:00	933.7
7/26/2023 2:00	7/26/2023 3:00	916.3
7/26/2023 3:00	7/26/2023 4:00	899.1
7/26/2023 4:00	7/26/2023 5:00	878.9
7/26/2023 5:00	7/26/2023 6:00	890.7
7/26/2023 6:00	7/26/2023 7:00	956.1
7/26/2023 7:00	7/26/2023 8:00	1079.0
7/26/2023 8:00	7/26/2023 9:00	1148.0
7/26/2023 9:00	7/26/2023 10:00	1195.1
7/26/2023 10:00	7/26/2023 11:00	1184.3
7/26/2023 11:00	7/26/2023 12:00	1215.3
7/26/2023 12:00	7/26/2023 13:00	1223.4
7/26/2023 13:00	7/26/2023 14:00	1208.3
7/26/2023 14:00	7/26/2023 15:00	1179.9
7/26/2023 15:00	7/26/2023 16:00	1175.4
7/26/2023 16:00	7/26/2023 17:00	1194.0
7/26/2023 17:00	7/26/2023 18:00	1205.4
7/26/2023 18:00	7/26/2023 19:00	1203.4
7/26/2023 19:00	7/26/2023 20:00	1183.1
7/26/2023 20:00	7/26/2023 21:00	1153.9
7/26/2023 21:00	7/26/2023 22:00	1114.8
7/26/2023 22:00	7/26/2023 23:00	997.6
7/26/2023 23:00	7/27/2023 0:00	884.9
7/27/2023 0:00	7/27/2023 1:00	858.8
7/27/2023 1:00	7/27/2023 2:00	836.9
7/27/2023 2:00	7/27/2023 3:00	828.8
7/27/2023 3:00	7/27/2023 4:00	825.3
7/27/2023 4:00	7/27/2023 5:00	819.7
7/27/2023 5:00	7/27/2023 6:00	848.4
7/27/2023 6:00	7/27/2023 7:00	901.4
7/27/2023 7:00	7/27/2023 8:00	937.1
7/27/2023 8:00	7/27/2023 9:00	1000.3

Start Time	End Time	ANL_MW
7/27/2023 9:00	7/27/2023 10:00	1052.0
7/27/2023 10:00	7/27/2023 11:00	1059.3
7/27/2023 11:00	7/27/2023 12:00	1034.4
7/27/2023 12:00	7/27/2023 13:00	1027.0
7/27/2023 13:00	7/27/2023 14:00	1011.2
7/27/2023 14:00	7/27/2023 15:00	1032.1
7/27/2023 15:00	7/27/2023 16:00	1041.5
7/27/2023 16:00	7/27/2023 17:00	1082.6
7/27/2023 17:00	7/27/2023 18:00	1114.2
7/27/2023 18:00	7/27/2023 19:00	1092.2
7/27/2023 19:00	7/27/2023 20:00	1069.4
7/27/2023 20:00	7/27/2023 21:00	1064.7
7/27/2023 21:00	7/27/2023 22:00	1052.1
7/27/2023 22:00	7/27/2023 23:00	926.5
7/27/2023 23:00	7/28/2023 0:00	863.0
7/28/2023 0:00	7/28/2023 1:00	849.5
7/28/2023 1:00	7/28/2023 2:00	858.7
7/28/2023 2:00	7/28/2023 3:00	879.9
7/28/2023 3:00	7/28/2023 4:00	918.4
7/28/2023 4:00	7/28/2023 5:00	953.9
7/28/2023 5:00	7/28/2023 6:00	989.9
7/28/2023 6:00	7/28/2023 7:00	1042.3
7/28/2023 7:00	7/28/2023 8:00	1126.4
7/28/2023 8:00	7/28/2023 9:00	1227.0
7/28/2023 9:00	7/28/2023 10:00	1297.0
7/28/2023 10:00	7/28/2023 11:00	1323.1
7/28/2023 11:00	7/28/2023 12:00	1340.7
7/28/2023 12:00	7/28/2023 13:00	1318.4
7/28/2023 13:00	7/28/2023 14:00	1332.7
7/28/2023 14:00	7/28/2023 15:00	1330.4
7/28/2023 15:00	7/28/2023 16:00	1326.9
7/28/2023 16:00	7/28/2023 17:00	1335.4
7/28/2023 17:00	7/28/2023 18:00	1323.1
7/28/2023 18:00	7/28/2023 19:00	1299.3
7/28/2023 19:00	7/28/2023 20:00	1268.2
7/28/2023 20:00	7/28/2023 21:00	1220.3
7/28/2023 21:00	7/28/2023 22:00	1172.6
7/28/2023 22:00	7/28/2023 23:00	1109.1
7/28/2023 23:00	7/29/2023 0:00	983.7
7/29/2023 0:00	7/29/2023 1:00	896.0
7/29/2023 1:00	7/29/2023 2:00	893.1
7/29/2023 2:00	7/29/2023 3:00	855.5
7/29/2023 3:00	7/29/2023 4:00	837.5
7/29/2023 4:00	7/29/2023 5:00	813.2
7/29/2023 5:00	7/29/2023 6:00	818.4
7/29/2023 6:00	7/29/2023 7:00	829.8
7/29/2023 7:00	7/29/2023 8:00	907.0
7/29/2023 8:00	7/29/2023 9:00	1033.6
7/29/2023 9:00	7/29/2023 10:00	1164.8
7/29/2023 10:00	7/29/2023 11:00	1224.8
7/29/2023 11:00	7/29/2023 12:00	1179.8
7/29/2023 12:00	7/29/2023 13:00	1142.4
7/29/2023 13:00	7/29/2023 14:00	1157.8
7/29/2023 14:00	7/29/2023 15:00	1172.9
7/29/2023 15:00	7/29/2023 16:00	1188.8
7/29/2023 16:00	7/29/2023 17:00	1227.1
7/29/2023 17:00	7/29/2023 18:00	1269.0
7/29/2023 18:00	7/29/2023 19:00	1274.3
7/29/2023 19:00	7/29/2023 20:00	1246.8
7/29/2023 20:00	7/29/2023 21:00	1193.4
7/29/2023 21:00	7/29/2023 22:00	1149.5
7/29/2023 22:00	7/29/2023 23:00	1065.1
7/29/2023 23:00	7/30/2023 0:00	984.0
7/30/2023 0:00	7/30/2023 1:00	905.2
7/30/2023 1:00	7/30/2023 2:00	849.2
7/30/2023 2:00	7/30/2023 3:00	847.8
7/30/2023 3:00	7/30/2023 4:00	895.5
7/30/2023 4:00	7/30/2023 5:00	890.0
7/30/2023 5:00	7/30/2023 6:00	910.5
7/30/2023 6:00	7/30/2023 7:00	939.8

Start Time	End Time	ANL_MW
7/30/2023 7:00	7/30/2023 8:00	984.7
7/30/2023 8:00	7/30/2023 9:00	1004.7
7/30/2023 9:00	7/30/2023 10:00	1079.4
7/30/2023 10:00	7/30/2023 11:00	1118.7
7/30/2023 11:00	7/30/2023 12:00	1150.8
7/30/2023 12:00	7/30/2023 13:00	1156.1
7/30/2023 13:00	7/30/2023 14:00	1130.0
7/30/2023 14:00	7/30/2023 15:00	1116.1
7/30/2023 15:00	7/30/2023 16:00	1119.3
7/30/2023 16:00	7/30/2023 17:00	1134.3
7/30/2023 17:00	7/30/2023 18:00	1180.1
7/30/2023 18:00	7/30/2023 19:00	1194.2
7/30/2023 19:00	7/30/2023 20:00	1195.9
7/30/2023 20:00	7/30/2023 21:00	1174.8
7/30/2023 21:00	7/30/2023 22:00	1189.5
7/30/2023 22:00	7/30/2023 23:00	1138.1
7/30/2023 23:00	7/31/2023 0:00	1051.6
7/31/2023 0:00	7/31/2023 1:00	971.1
7/31/2023 1:00	7/31/2023 2:00	932.6
7/31/2023 2:00	7/31/2023 3:00	909.2
7/31/2023 3:00	7/31/2023 4:00	902.0
7/31/2023 4:00	7/31/2023 5:00	913.7
7/31/2023 5:00	7/31/2023 6:00	938.3
7/31/2023 6:00	7/31/2023 7:00	1007.5
7/31/2023 7:00	7/31/2023 8:00	1120.3
7/31/2023 8:00	7/31/2023 9:00	1208.8
7/31/2023 9:00	7/31/2023 10:00	1267.1
7/31/2023 10:00	7/31/2023 11:00	1253.7
7/31/2023 11:00	7/31/2023 12:00	1260.4
7/31/2023 12:00	7/31/2023 13:00	1253.6
7/31/2023 13:00	7/31/2023 14:00	1242.5
7/31/2023 14:00	7/31/2023 15:00	1226.2
7/31/2023 15:00	7/31/2023 16:00	1233.3
7/31/2023 16:00	7/31/2023 17:00	1252.5
7/31/2023 17:00	7/31/2023 18:00	1251.1
7/31/2023 18:00	7/31/2023 19:00	1232.1
7/31/2023 19:00	7/31/2023 20:00	1185.3
7/31/2023 20:00	7/31/2023 21:00	1183.5
7/31/2023 21:00	7/31/2023 22:00	1152.9
7/31/2023 22:00	7/31/2023 23:00	1030.8
7/31/2023 23:00	8/1/2023 0:00	991.7
8/1/2023 0:00	8/1/2023 1:00	964.4
8/1/2023 1:00	8/1/2023 2:00	930.6
8/1/2023 2:00	8/1/2023 3:00	886.0
8/1/2023 3:00	8/1/2023 4:00	867.9
8/1/2023 4:00	8/1/2023 5:00	879.6
8/1/2023 5:00	8/1/2023 6:00	901.5
8/1/2023 6:00	8/1/2023 7:00	908.9
8/1/2023 7:00	8/1/2023 8:00	974.9
8/1/2023 8:00	8/1/2023 9:00	1072.8
8/1/2023 9:00	8/1/2023 10:00	1107.1
8/1/2023 10:00	8/1/2023 11:00	1127.6
8/1/2023 11:00	8/1/2023 12:00	1132.9
8/1/2023 12:00	8/1/2023 13:00	1138.6
8/1/2023 13:00	8/1/2023 14:00	1124.8
8/1/2023 14:00	8/1/2023 15:00	1100.6
8/1/2023 15:00	8/1/2023 16:00	1102.4
8/1/2023 16:00	8/1/2023 17:00	1114.9
8/1/2023 17:00	8/1/2023 18:00	1125.0
8/1/2023 18:00	8/1/2023 19:00	1109.6
8/1/2023 19:00	8/1/2023 20:00	1076.6
8/1/2023 20:00	8/1/2023 21:00	1055.3
8/1/2023 21:00	8/1/2023 22:00	1014.0
8/1/2023 22:00	8/1/2023 23:00	925.8
8/1/2023 23:00	8/2/2023 0:00	827.8
8/2/2023 0:00	8/2/2023 1:00	759.6
8/2/2023 1:00	8/2/2023 2:00	724.1
8/2/2023 2:00	8/2/2023 3:00	705.8
8/2/2023 3:00	8/2/2023 4:00	706.8
8/2/2023 4:00	8/2/2023 5:00	720.7

Start Time	End Time	ANL_MW
8/2/2023 5:00	8/2/2023 6:00	765.5
8/2/2023 6:00	8/2/2023 7:00	849.9
8/2/2023 7:00	8/2/2023 8:00	966.8
8/2/2023 8:00	8/2/2023 9:00	1057.3
8/2/2023 9:00	8/2/2023 10:00	1101.4
8/2/2023 10:00	8/2/2023 11:00	1101.5
8/2/2023 11:00	8/2/2023 12:00	1099.1
8/2/2023 12:00	8/2/2023 13:00	1106.2
8/2/2023 13:00	8/2/2023 14:00	1098.6
8/2/2023 14:00	8/2/2023 15:00	1080.6
8/2/2023 15:00	8/2/2023 16:00	1099.7
8/2/2023 16:00	8/2/2023 17:00	1145.8
8/2/2023 17:00	8/2/2023 18:00	1186.1
8/2/2023 18:00	8/2/2023 19:00	1170.4
8/2/2023 19:00	8/2/2023 20:00	1142.2
8/2/2023 20:00	8/2/2023 21:00	1158.0
8/2/2023 21:00	8/2/2023 22:00	1151.1
8/2/2023 22:00	8/2/2023 23:00	1082.0
8/2/2023 23:00	8/3/2023 0:00	1016.4
8/3/2023 0:00	8/3/2023 1:00	943.2
8/3/2023 1:00	8/3/2023 2:00	898.0
8/3/2023 2:00	8/3/2023 3:00	878.6
8/3/2023 3:00	8/3/2023 4:00	861.8
8/3/2023 4:00	8/3/2023 5:00	870.5
8/3/2023 5:00	8/3/2023 6:00	912.9
8/3/2023 6:00	8/3/2023 7:00	981.2
8/3/2023 7:00	8/3/2023 8:00	1091.9
8/3/2023 8:00	8/3/2023 9:00	1182.3
8/3/2023 9:00	8/3/2023 10:00	1207.2
8/3/2023 10:00	8/3/2023 11:00	1191.9
8/3/2023 11:00	8/3/2023 12:00	1205.9
8/3/2023 12:00	8/3/2023 13:00	1207.2
8/3/2023 13:00	8/3/2023 14:00	1200.5
8/3/2023 14:00	8/3/2023 15:00	1186.0
8/3/2023 15:00	8/3/2023 16:00	1162.7
8/3/2023 16:00	8/3/2023 17:00	1151.2
8/3/2023 17:00	8/3/2023 18:00	1145.1
8/3/2023 18:00	8/3/2023 19:00	1060.7
8/3/2023 19:00	8/3/2023 20:00	1080.3
8/3/2023 20:00	8/3/2023 21:00	1064.4
8/3/2023 21:00	8/3/2023 22:00	1032.6
8/3/2023 22:00	8/3/2023 23:00	983.8
8/3/2023 23:00	8/4/2023 0:00	938.9
8/4/2023 0:00	8/4/2023 1:00	891.1
8/4/2023 1:00	8/4/2023 2:00	876.7
8/4/2023 2:00	8/4/2023 3:00	870.3
8/4/2023 3:00	8/4/2023 4:00	861.4
8/4/2023 4:00	8/4/2023 5:00	848.3
8/4/2023 5:00	8/4/2023 6:00	862.4
8/4/2023 6:00	8/4/2023 7:00	894.0
8/4/2023 7:00	8/4/2023 8:00	981.2
8/4/2023 8:00	8/4/2023 9:00	1090.5
8/4/2023 9:00	8/4/2023 10:00	1116.2
8/4/2023 10:00	8/4/2023 11:00	1061.5
8/4/2023 11:00	8/4/2023 12:00	967.8
8/4/2023 12:00	8/4/2023 13:00	918.9
8/4/2023 13:00	8/4/2023 14:00	910.6
8/4/2023 14:00	8/4/2023 15:00	887.5
8/4/2023 15:00	8/4/2023 16:00	950.1
8/4/2023 16:00	8/4/2023 17:00	979.6
8/4/2023 17:00	8/4/2023 18:00	1009.9
8/4/2023 18:00	8/4/2023 19:00	1010.0
8/4/2023 19:00	8/4/2023 20:00	1026.6
8/4/2023 20:00	8/4/2023 21:00	1020.9
8/4/2023 21:00	8/4/2023 22:00	993.6
8/4/2023 22:00	8/4/2023 23:00	931.6
8/4/2023 23:00	8/5/2023 0:00	847.1
8/5/2023 0:00	8/5/2023 1:00	774.3
8/5/2023 1:00	8/5/2023 2:00	751.6
8/5/2023 2:00	8/5/2023 3:00	751.7

Start Time	End Time	ANL_MW
8/5/2023 3:00	8/5/2023 4:00	742.2
8/5/2023 4:00	8/5/2023 5:00	733.0
8/5/2023 5:00	8/5/2023 6:00	718.1
8/5/2023 6:00	8/5/2023 7:00	713.4
8/5/2023 7:00	8/5/2023 8:00	753.3
8/5/2023 8:00	8/5/2023 9:00	818.0
8/5/2023 9:00	8/5/2023 10:00	894.1
8/5/2023 10:00	8/5/2023 11:00	916.1
8/5/2023 11:00	8/5/2023 12:00	934.0
8/5/2023 12:00	8/5/2023 13:00	909.0
8/5/2023 13:00	8/5/2023 14:00	899.2
8/5/2023 14:00	8/5/2023 15:00	895.8
8/5/2023 15:00	8/5/2023 16:00	901.0
8/5/2023 16:00	8/5/2023 17:00	977.4
8/5/2023 17:00	8/5/2023 18:00	1058.1
8/5/2023 18:00	8/5/2023 19:00	1051.2
8/5/2023 19:00	8/5/2023 20:00	999.5
8/5/2023 20:00	8/5/2023 21:00	981.7
8/5/2023 21:00	8/5/2023 22:00	945.9
8/5/2023 22:00	8/5/2023 23:00	914.7
8/5/2023 23:00	8/6/2023 0:00	918.7
8/6/2023 0:00	8/6/2023 1:00	899.6
8/6/2023 1:00	8/6/2023 2:00	905.4
8/6/2023 2:00	8/6/2023 3:00	883.8
8/6/2023 3:00	8/6/2023 4:00	883.3
8/6/2023 4:00	8/6/2023 5:00	887.2
8/6/2023 5:00	8/6/2023 6:00	892.6
8/6/2023 6:00	8/6/2023 7:00	907.3
8/6/2023 7:00	8/6/2023 8:00	964.0
8/6/2023 8:00	8/6/2023 9:00	1047.2
8/6/2023 9:00	8/6/2023 10:00	1122.9
8/6/2023 10:00	8/6/2023 11:00	1121.8
8/6/2023 11:00	8/6/2023 12:00	1142.0
8/6/2023 12:00	8/6/2023 13:00	1145.6
8/6/2023 13:00	8/6/2023 14:00	1127.9
8/6/2023 14:00	8/6/2023 15:00	1106.1
8/6/2023 15:00	8/6/2023 16:00	1078.8
8/6/2023 16:00	8/6/2023 17:00	1104.2
8/6/2023 17:00	8/6/2023 18:00	1152.7
8/6/2023 18:00	8/6/2023 19:00	1084.7
8/6/2023 19:00	8/6/2023 20:00	1043.7
8/6/2023 20:00	8/6/2023 21:00	1063.5
8/6/2023 21:00	8/6/2023 22:00	1047.6
8/6/2023 22:00	8/6/2023 23:00	1020.5
8/6/2023 23:00	8/7/2023 0:00	947.5
8/7/2023 0:00	8/7/2023 1:00	870.0
8/7/2023 1:00	8/7/2023 2:00	836.7
8/7/2023 2:00	8/7/2023 3:00	830.7
8/7/2023 3:00	8/7/2023 4:00	827.9
8/7/2023 4:00	8/7/2023 5:00	841.4
8/7/2023 5:00	8/7/2023 6:00	862.1
8/7/2023 6:00	8/7/2023 7:00	906.1
8/7/2023 7:00	8/7/2023 8:00	982.2
8/7/2023 8:00	8/7/2023 9:00	1069.0
8/7/2023 9:00	8/7/2023 10:00	1086.4
8/7/2023 10:00	8/7/2023 11:00	1105.2
8/7/2023 11:00	8/7/2023 12:00	1134.7
8/7/2023 12:00	8/7/2023 13:00	1147.6
8/7/2023 13:00	8/7/2023 14:00	1147.6
8/7/2023 14:00	8/7/2023 15:00	1145.7
8/7/2023 15:00	8/7/2023 16:00	1149.7
8/7/2023 16:00	8/7/2023 17:00	1180.1
8/7/2023 17:00	8/7/2023 18:00	1210.3
8/7/2023 18:00	8/7/2023 19:00	1202.0
8/7/2023 19:00	8/7/2023 20:00	1192.7
8/7/2023 20:00	8/7/2023 21:00	1176.9
8/7/2023 21:00	8/7/2023 22:00	1155.0
8/7/2023 22:00	8/7/2023 23:00	1063.2
8/7/2023 23:00	8/8/2023 0:00	983.3
8/8/2023 0:00	8/8/2023 1:00	919.7

Start Time	End Time	ANL_MW
8/8/2023 1:00	8/8/2023 2:00	922.9
8/8/2023 2:00	8/8/2023 3:00	925.4
8/8/2023 3:00	8/8/2023 4:00	907.4
8/8/2023 4:00	8/8/2023 5:00	905.6
8/8/2023 5:00	8/8/2023 6:00	910.6
8/8/2023 6:00	8/8/2023 7:00	880.5
8/8/2023 7:00	8/8/2023 8:00	967.6
8/8/2023 8:00	8/8/2023 9:00	1042.0
8/8/2023 9:00	8/8/2023 10:00	1088.7
8/8/2023 10:00	8/8/2023 11:00	1098.6
8/8/2023 11:00	8/8/2023 12:00	1090.1
8/8/2023 12:00	8/8/2023 13:00	1066.1
8/8/2023 13:00	8/8/2023 14:00	1051.8
8/8/2023 14:00	8/8/2023 15:00	1035.1
8/8/2023 15:00	8/8/2023 16:00	1018.7
8/8/2023 16:00	8/8/2023 17:00	1033.7
8/8/2023 17:00	8/8/2023 18:00	1037.5
8/8/2023 18:00	8/8/2023 19:00	1001.9
8/8/2023 19:00	8/8/2023 20:00	959.8
8/8/2023 20:00	8/8/2023 21:00	937.7
8/8/2023 21:00	8/8/2023 22:00	880.2
8/8/2023 22:00	8/8/2023 23:00	784.9
8/8/2023 23:00	8/9/2023 0:00	693.8
8/9/2023 0:00	8/9/2023 1:00	636.2
8/9/2023 1:00	8/9/2023 2:00	612.1
8/9/2023 2:00	8/9/2023 3:00	618.8
8/9/2023 3:00	8/9/2023 4:00	628.8
8/9/2023 4:00	8/9/2023 5:00	624.9
8/9/2023 5:00	8/9/2023 6:00	651.2
8/9/2023 6:00	8/9/2023 7:00	704.0
8/9/2023 7:00	8/9/2023 8:00	782.4
8/9/2023 8:00	8/9/2023 9:00	879.0
8/9/2023 9:00	8/9/2023 10:00	937.3
8/9/2023 10:00	8/9/2023 11:00	979.3
8/9/2023 11:00	8/9/2023 12:00	1011.6
8/9/2023 12:00	8/9/2023 13:00	1040.3
8/9/2023 13:00	8/9/2023 14:00	1067.5
8/9/2023 14:00	8/9/2023 15:00	1066.4
8/9/2023 15:00	8/9/2023 16:00	1085.0
8/9/2023 16:00	8/9/2023 17:00	1053.3
8/9/2023 17:00	8/9/2023 18:00	1066.9
8/9/2023 18:00	8/9/2023 19:00	1058.6
8/9/2023 19:00	8/9/2023 20:00	1034.5
8/9/2023 20:00	8/9/2023 21:00	1029.8
8/9/2023 21:00	8/9/2023 22:00	1049.4
8/9/2023 22:00	8/9/2023 23:00	978.6
8/9/2023 23:00	8/10/2023 0:00	938.8
8/10/2023 0:00	8/10/2023 1:00	875.7
8/10/2023 1:00	8/10/2023 2:00	820.5
8/10/2023 2:00	8/10/2023 3:00	794.3
8/10/2023 3:00	8/10/2023 4:00	769.2
8/10/2023 4:00	8/10/2023 5:00	752.5
8/10/2023 5:00	8/10/2023 6:00	765.9
8/10/2023 6:00	8/10/2023 7:00	830.1
8/10/2023 7:00	8/10/2023 8:00	936.9
8/10/2023 8:00	8/10/2023 9:00	1001.5
8/10/2023 9:00	8/10/2023 10:00	1008.7
8/10/2023 10:00	8/10/2023 11:00	1050.2
8/10/2023 11:00	8/10/2023 12:00	1084.4
8/10/2023 12:00	8/10/2023 13:00	1081.7
8/10/2023 13:00	8/10/2023 14:00	1080.5
8/10/2023 14:00	8/10/2023 15:00	1070.3
8/10/2023 15:00	8/10/2023 16:00	1105.9
8/10/2023 16:00	8/10/2023 17:00	1168.1
8/10/2023 17:00	8/10/2023 18:00	1212.4
8/10/2023 18:00	8/10/2023 19:00	1201.9
8/10/2023 19:00	8/10/2023 20:00	1185.4
8/10/2023 20:00	8/10/2023 21:00	1183.9
8/10/2023 21:00	8/10/2023 22:00	1183.2
8/10/2023 22:00	8/10/2023 23:00	1096.6

Start Time	End Time	ANL_MW
8/10/2023 23:00	8/11/2023 0:00	1023.5
8/11/2023 0:00	8/11/2023 1:00	967.4
8/11/2023 1:00	8/11/2023 2:00	945.8
8/11/2023 2:00	8/11/2023 3:00	916.8
8/11/2023 3:00	8/11/2023 4:00	892.6
8/11/2023 4:00	8/11/2023 5:00	878.7
8/11/2023 5:00	8/11/2023 6:00	856.8
8/11/2023 6:00	8/11/2023 7:00	888.8
8/11/2023 7:00	8/11/2023 8:00	902.1
8/11/2023 8:00	8/11/2023 9:00	984.3
8/11/2023 9:00	8/11/2023 10:00	1002.1
8/11/2023 10:00	8/11/2023 11:00	1008.8
8/11/2023 11:00	8/11/2023 12:00	1030.7
8/11/2023 12:00	8/11/2023 13:00	1056.3
8/11/2023 13:00	8/11/2023 14:00	1079.9
8/11/2023 14:00	8/11/2023 15:00	1065.0
8/11/2023 15:00	8/11/2023 16:00	1033.8
8/11/2023 16:00	8/11/2023 17:00	1044.2
8/11/2023 17:00	8/11/2023 18:00	1002.8
8/11/2023 18:00	8/11/2023 19:00	947.9
8/11/2023 19:00	8/11/2023 20:00	864.7
8/11/2023 20:00	8/11/2023 21:00	867.3
8/11/2023 21:00	8/11/2023 22:00	844.8
8/11/2023 22:00	8/11/2023 23:00	805.9
8/11/2023 23:00	8/12/2023 0:00	766.3
8/12/2023 0:00	8/12/2023 1:00	694.7
8/12/2023 1:00	8/12/2023 2:00	646.0
8/12/2023 2:00	8/12/2023 3:00	636.2
8/12/2023 3:00	8/12/2023 4:00	618.4
8/12/2023 4:00	8/12/2023 5:00	625.2
8/12/2023 5:00	8/12/2023 6:00	632.5
8/12/2023 6:00	8/12/2023 7:00	649.1
8/12/2023 7:00	8/12/2023 8:00	741.6
8/12/2023 8:00	8/12/2023 9:00	845.9
8/12/2023 9:00	8/12/2023 10:00	916.3
8/12/2023 10:00	8/12/2023 11:00	944.8
8/12/2023 11:00	8/12/2023 12:00	946.9
8/12/2023 12:00	8/12/2023 13:00	964.5
8/12/2023 13:00	8/12/2023 14:00	964.6
8/12/2023 14:00	8/12/2023 15:00	979.2
8/12/2023 15:00	8/12/2023 16:00	989.1
8/12/2023 16:00	8/12/2023 17:00	1005.2
8/12/2023 17:00	8/12/2023 18:00	1064.1
8/12/2023 18:00	8/12/2023 19:00	1079.7
8/12/2023 19:00	8/12/2023 20:00	1105.6
8/12/2023 20:00	8/12/2023 21:00	1087.2
8/12/2023 21:00	8/12/2023 22:00	1080.5
8/12/2023 22:00	8/12/2023 23:00	1030.0
8/12/2023 23:00	8/13/2023 0:00	973.8
8/13/2023 0:00	8/13/2023 1:00	934.0
8/13/2023 1:00	8/13/2023 2:00	897.1
8/13/2023 2:00	8/13/2023 3:00	855.4
8/13/2023 3:00	8/13/2023 4:00	833.6
8/13/2023 4:00	8/13/2023 5:00	813.1
8/13/2023 5:00	8/13/2023 6:00	828.2
8/13/2023 6:00	8/13/2023 7:00	845.8
8/13/2023 7:00	8/13/2023 8:00	908.3
8/13/2023 8:00	8/13/2023 9:00	1004.8
8/13/2023 9:00	8/13/2023 10:00	1057.5
8/13/2023 10:00	8/13/2023 11:00	1107.3
8/13/2023 11:00	8/13/2023 12:00	1134.2
8/13/2023 12:00	8/13/2023 13:00	1157.2
8/13/2023 13:00	8/13/2023 14:00	1161.1
8/13/2023 14:00	8/13/2023 15:00	1158.5
8/13/2023 15:00	8/13/2023 16:00	1143.9
8/13/2023 16:00	8/13/2023 17:00	1176.7
8/13/2023 17:00	8/13/2023 18:00	1175.2
8/13/2023 18:00	8/13/2023 19:00	1156.6
8/13/2023 19:00	8/13/2023 20:00	1149.0
8/13/2023 20:00	8/13/2023 21:00	1136.5

Start Time	End Time	ANL_MW
8/13/2023 21:00	8/13/2023 22:00	1087.1
8/13/2023 22:00	8/13/2023 23:00	1026.8
8/13/2023 23:00	8/14/2023 0:00	949.7
8/14/2023 0:00	8/14/2023 1:00	868.7
8/14/2023 1:00	8/14/2023 2:00	814.1
8/14/2023 2:00	8/14/2023 3:00	803.1
8/14/2023 3:00	8/14/2023 4:00	838.9
8/14/2023 4:00	8/14/2023 5:00	887.7
8/14/2023 5:00	8/14/2023 6:00	940.8
8/14/2023 6:00	8/14/2023 7:00	985.1
8/14/2023 7:00	8/14/2023 8:00	1102.4
8/14/2023 8:00	8/14/2023 9:00	1192.8
8/14/2023 9:00	8/14/2023 10:00	1243.3
8/14/2023 10:00	8/14/2023 11:00	1271.1
8/14/2023 11:00	8/14/2023 12:00	1297.5
8/14/2023 12:00	8/14/2023 13:00	1304.2
8/14/2023 13:00	8/14/2023 14:00	1296.3
8/14/2023 14:00	8/14/2023 15:00	1295.5
8/14/2023 15:00	8/14/2023 16:00	1287.8
8/14/2023 16:00	8/14/2023 17:00	1323.6
8/14/2023 17:00	8/14/2023 18:00	1342.5
8/14/2023 18:00	8/14/2023 19:00	1304.9
8/14/2023 19:00	8/14/2023 20:00	1272.6
8/14/2023 20:00	8/14/2023 21:00	1258.5
8/14/2023 21:00	8/14/2023 22:00	1190.3
8/14/2023 22:00	8/14/2023 23:00	1125.9
8/14/2023 23:00	8/15/2023 0:00	1025.7
8/15/2023 0:00	8/15/2023 1:00	959.2
8/15/2023 1:00	8/15/2023 2:00	933.5
8/15/2023 2:00	8/15/2023 3:00	918.1
8/15/2023 3:00	8/15/2023 4:00	921.6
8/15/2023 4:00	8/15/2023 5:00	933.8
8/15/2023 5:00	8/15/2023 6:00	967.5
8/15/2023 6:00	8/15/2023 7:00	1048.8
8/15/2023 7:00	8/15/2023 8:00	1158.4
8/15/2023 8:00	8/15/2023 9:00	1233.7
8/15/2023 9:00	8/15/2023 10:00	1223.6
8/15/2023 10:00	8/15/2023 11:00	1250.8
8/15/2023 11:00	8/15/2023 12:00	1266.7
8/15/2023 12:00	8/15/2023 13:00	1282.2
8/15/2023 13:00	8/15/2023 14:00	1279.6
8/15/2023 14:00	8/15/2023 15:00	1271.2
8/15/2023 15:00	8/15/2023 16:00	1274.4
8/15/2023 16:00	8/15/2023 17:00	1286.8
8/15/2023 17:00	8/15/2023 18:00	1300.2
8/15/2023 18:00	8/15/2023 19:00	1278.3
8/15/2023 19:00	8/15/2023 20:00	1245.1
8/15/2023 20:00	8/15/2023 21:00	1237.1
8/15/2023 21:00	8/15/2023 22:00	1201.2
8/15/2023 22:00	8/15/2023 23:00	1153.9
8/15/2023 23:00	8/16/2023 0:00	1074.2
8/16/2023 0:00	8/16/2023 1:00	1015.1
8/16/2023 1:00	8/16/2023 2:00	930.1
8/16/2023 2:00	8/16/2023 3:00	840.7
8/16/2023 3:00	8/16/2023 4:00	832.9
8/16/2023 4:00	8/16/2023 5:00	825.2
8/16/2023 5:00	8/16/2023 6:00	858.6
8/16/2023 6:00	8/16/2023 7:00	954.5
8/16/2023 7:00	8/16/2023 8:00	1060.8
8/16/2023 8:00	8/16/2023 9:00	1163.0
8/16/2023 9:00	8/16/2023 10:00	1198.4
8/16/2023 10:00	8/16/2023 11:00	1171.1
8/16/2023 11:00	8/16/2023 12:00	1189.1
8/16/2023 12:00	8/16/2023 13:00	1191.0
8/16/2023 13:00	8/16/2023 14:00	1213.7
8/16/2023 14:00	8/16/2023 15:00	1227.6
8/16/2023 15:00	8/16/2023 16:00	1241.3
8/16/2023 16:00	8/16/2023 17:00	1264.3
8/16/2023 17:00	8/16/2023 18:00	1287.2
8/16/2023 18:00	8/16/2023 19:00	1264.9

Start Time	End Time	ANL_MW
8/16/2023 19:00	8/16/2023 20:00	1236.8
8/16/2023 20:00	8/16/2023 21:00	1233.0
8/16/2023 21:00	8/16/2023 22:00	1197.5
8/16/2023 22:00	8/16/2023 23:00	1103.9
8/16/2023 23:00	8/17/2023 0:00	1069.8
8/17/2023 0:00	8/17/2023 1:00	1006.9
8/17/2023 1:00	8/17/2023 2:00	959.8
8/17/2023 2:00	8/17/2023 3:00	928.7
8/17/2023 3:00	8/17/2023 4:00	933.6
8/17/2023 4:00	8/17/2023 5:00	938.4
8/17/2023 5:00	8/17/2023 6:00	968.7
8/17/2023 6:00	8/17/2023 7:00	1025.3
8/17/2023 7:00	8/17/2023 8:00	1086.3
8/17/2023 8:00	8/17/2023 9:00	1166.0
8/17/2023 9:00	8/17/2023 10:00	1206.7
8/17/2023 10:00	8/17/2023 11:00	1213.3
8/17/2023 11:00	8/17/2023 12:00	1258.8
8/17/2023 12:00	8/17/2023 13:00	1263.5
8/17/2023 13:00	8/17/2023 14:00	1261.7
8/17/2023 14:00	8/17/2023 15:00	1254.4
8/17/2023 15:00	8/17/2023 16:00	1252.5
8/17/2023 16:00	8/17/2023 17:00	1271.7
8/17/2023 17:00	8/17/2023 18:00	1281.0
8/17/2023 18:00	8/17/2023 19:00	1254.3
8/17/2023 19:00	8/17/2023 20:00	1222.9
8/17/2023 20:00	8/17/2023 21:00	1209.4
8/17/2023 21:00	8/17/2023 22:00	1166.4
8/17/2023 22:00	8/17/2023 23:00	1106.2
8/17/2023 23:00	8/18/2023 0:00	1021.0
8/18/2023 0:00	8/18/2023 1:00	929.2
8/18/2023 1:00	8/18/2023 2:00	868.1
8/18/2023 2:00	8/18/2023 3:00	843.2
8/18/2023 3:00	8/18/2023 4:00	823.1
8/18/2023 4:00	8/18/2023 5:00	822.7
8/18/2023 5:00	8/18/2023 6:00	845.6
8/18/2023 6:00	8/18/2023 7:00	911.4
8/18/2023 7:00	8/18/2023 8:00	980.6
8/18/2023 8:00	8/18/2023 9:00	1059.4
8/18/2023 9:00	8/18/2023 10:00	1050.9
8/18/2023 10:00	8/18/2023 11:00	1082.0
8/18/2023 11:00	8/18/2023 12:00	1089.4
8/18/2023 12:00	8/18/2023 13:00	1076.2
8/18/2023 13:00	8/18/2023 14:00	1093.9
8/18/2023 14:00	8/18/2023 15:00	1099.8
8/18/2023 15:00	8/18/2023 16:00	1094.8
8/18/2023 16:00	8/18/2023 17:00	1106.6
8/18/2023 17:00	8/18/2023 18:00	1108.3
8/18/2023 18:00	8/18/2023 19:00	1082.8
8/18/2023 19:00	8/18/2023 20:00	1061.0
8/18/2023 20:00	8/18/2023 21:00	1043.0
8/18/2023 21:00	8/18/2023 22:00	1025.8
8/18/2023 22:00	8/18/2023 23:00	990.6
8/18/2023 23:00	8/19/2023 0:00	922.4
8/19/2023 0:00	8/19/2023 1:00	870.5
8/19/2023 1:00	8/19/2023 2:00	808.0
8/19/2023 2:00	8/19/2023 3:00	804.9
8/19/2023 3:00	8/19/2023 4:00	810.8
8/19/2023 4:00	8/19/2023 5:00	818.5
8/19/2023 5:00	8/19/2023 6:00	815.7
8/19/2023 6:00	8/19/2023 7:00	839.0
8/19/2023 7:00	8/19/2023 8:00	853.5
8/19/2023 8:00	8/19/2023 9:00	906.0
8/19/2023 9:00	8/19/2023 10:00	939.3
8/19/2023 10:00	8/19/2023 11:00	975.7
8/19/2023 11:00	8/19/2023 12:00	1045.6
8/19/2023 12:00	8/19/2023 13:00	1027.0
8/19/2023 13:00	8/19/2023 14:00	981.2
8/19/2023 14:00	8/19/2023 15:00	967.3
8/19/2023 15:00	8/19/2023 16:00	965.9
8/19/2023 16:00	8/19/2023 17:00	994.0

Start Time	End Time	ANL_MW
8/19/2023 17:00	8/19/2023 18:00	1000.6
8/19/2023 18:00	8/19/2023 19:00	999.0
8/19/2023 19:00	8/19/2023 20:00	968.8
8/19/2023 20:00	8/19/2023 21:00	941.9
8/19/2023 21:00	8/19/2023 22:00	896.3
8/19/2023 22:00	8/19/2023 23:00	846.9
8/19/2023 23:00	8/20/2023 0:00	778.9
8/20/2023 0:00	8/20/2023 1:00	732.7
8/20/2023 1:00	8/20/2023 2:00	728.4
8/20/2023 2:00	8/20/2023 3:00	730.7
8/20/2023 3:00	8/20/2023 4:00	735.6
8/20/2023 4:00	8/20/2023 5:00	738.6
8/20/2023 5:00	8/20/2023 6:00	768.9
8/20/2023 6:00	8/20/2023 7:00	763.8
8/20/2023 7:00	8/20/2023 8:00	825.5
8/20/2023 8:00	8/20/2023 9:00	934.0
8/20/2023 9:00	8/20/2023 10:00	999.6
8/20/2023 10:00	8/20/2023 11:00	999.7
8/20/2023 11:00	8/20/2023 12:00	1012.8
8/20/2023 12:00	8/20/2023 13:00	1013.3
8/20/2023 13:00	8/20/2023 14:00	1025.4
8/20/2023 14:00	8/20/2023 15:00	1023.6
8/20/2023 15:00	8/20/2023 16:00	1008.7
8/20/2023 16:00	8/20/2023 17:00	1051.2
8/20/2023 17:00	8/20/2023 18:00	1097.0
8/20/2023 18:00	8/20/2023 19:00	1116.2
8/20/2023 19:00	8/20/2023 20:00	1100.1
8/20/2023 20:00	8/20/2023 21:00	1085.5
8/20/2023 21:00	8/20/2023 22:00	1042.5
8/20/2023 22:00	8/20/2023 23:00	962.8
8/20/2023 23:00	8/21/2023 0:00	901.4
8/21/2023 0:00	8/21/2023 1:00	834.0
8/21/2023 1:00	8/21/2023 2:00	797.7
8/21/2023 2:00	8/21/2023 3:00	799.9
8/21/2023 3:00	8/21/2023 4:00	791.6
8/21/2023 4:00	8/21/2023 5:00	788.8
8/21/2023 5:00	8/21/2023 6:00	802.5
8/21/2023 6:00	8/21/2023 7:00	847.3
8/21/2023 7:00	8/21/2023 8:00	927.0
8/21/2023 8:00	8/21/2023 9:00	945.0
8/21/2023 9:00	8/21/2023 10:00	974.2
8/21/2023 10:00	8/21/2023 11:00	978.2
8/21/2023 11:00	8/21/2023 12:00	1004.7
8/21/2023 12:00	8/21/2023 13:00	1049.5
8/21/2023 13:00	8/21/2023 14:00	1095.5
8/21/2023 14:00	8/21/2023 15:00	1129.8
8/21/2023 15:00	8/21/2023 16:00	1171.8
8/21/2023 16:00	8/21/2023 17:00	1214.7
8/21/2023 17:00	8/21/2023 18:00	1253.2
8/21/2023 18:00	8/21/2023 19:00	1244.0
8/21/2023 19:00	8/21/2023 20:00	1234.4
8/21/2023 20:00	8/21/2023 21:00	1221.3
8/21/2023 21:00	8/21/2023 22:00	1154.4
8/21/2023 22:00	8/21/2023 23:00	1091.0
8/21/2023 23:00	8/22/2023 0:00	1026.5
8/22/2023 0:00	8/22/2023 1:00	947.7
8/22/2023 1:00	8/22/2023 2:00	894.2
8/22/2023 2:00	8/22/2023 3:00	873.7
8/22/2023 3:00	8/22/2023 4:00	867.8
8/22/2023 4:00	8/22/2023 5:00	867.4
8/22/2023 5:00	8/22/2023 6:00	913.2
8/22/2023 6:00	8/22/2023 7:00	994.3
8/22/2023 7:00	8/22/2023 8:00	1074.9
8/22/2023 8:00	8/22/2023 9:00	1146.3
8/22/2023 9:00	8/22/2023 10:00	1140.2
8/22/2023 10:00	8/22/2023 11:00	1170.1
8/22/2023 11:00	8/22/2023 12:00	1173.3
8/22/2023 12:00	8/22/2023 13:00	1162.3
8/22/2023 13:00	8/22/2023 14:00	1164.1
8/22/2023 14:00	8/22/2023 15:00	1151.1

Start Time	End Time	ANL_MW
8/22/2023 15:00	8/22/2023 16:00	1154.3
8/22/2023 16:00	8/22/2023 17:00	1187.9
8/22/2023 17:00	8/22/2023 18:00	1203.8
8/22/2023 18:00	8/22/2023 19:00	1163.8
8/22/2023 19:00	8/22/2023 20:00	1101.2
8/22/2023 20:00	8/22/2023 21:00	1122.0
8/22/2023 21:00	8/22/2023 22:00	1126.3
8/22/2023 22:00	8/22/2023 23:00	1044.6
8/22/2023 23:00	8/23/2023 0:00	958.3
8/23/2023 0:00	8/23/2023 1:00	914.3
8/23/2023 1:00	8/23/2023 2:00	890.7
8/23/2023 2:00	8/23/2023 3:00	870.6
8/23/2023 3:00	8/23/2023 4:00	856.0
8/23/2023 4:00	8/23/2023 5:00	856.2
8/23/2023 5:00	8/23/2023 6:00	877.6
8/23/2023 6:00	8/23/2023 7:00	961.4
8/23/2023 7:00	8/23/2023 8:00	1052.3
8/23/2023 8:00	8/23/2023 9:00	1088.7
8/23/2023 9:00	8/23/2023 10:00	1126.4
8/23/2023 10:00	8/23/2023 11:00	1121.0
8/23/2023 11:00	8/23/2023 12:00	1111.9
8/23/2023 12:00	8/23/2023 13:00	1107.9
8/23/2023 13:00	8/23/2023 14:00	1093.6
8/23/2023 14:00	8/23/2023 15:00	1082.8
8/23/2023 15:00	8/23/2023 16:00	1091.1
8/23/2023 16:00	8/23/2023 17:00	1133.5
8/23/2023 17:00	8/23/2023 18:00	1171.9
8/23/2023 18:00	8/23/2023 19:00	1161.2
8/23/2023 19:00	8/23/2023 20:00	1139.8
8/23/2023 20:00	8/23/2023 21:00	1118.9
8/23/2023 21:00	8/23/2023 22:00	1063.4
8/23/2023 22:00	8/23/2023 23:00	954.5
8/23/2023 23:00	8/24/2023 0:00	899.2
8/24/2023 0:00	8/24/2023 1:00	882.5
8/24/2023 1:00	8/24/2023 2:00	854.8
8/24/2023 2:00	8/24/2023 3:00	873.5
8/24/2023 3:00	8/24/2023 4:00	880.4
8/24/2023 4:00	8/24/2023 5:00	890.7
8/24/2023 5:00	8/24/2023 6:00	945.5
8/24/2023 6:00	8/24/2023 7:00	996.0
8/24/2023 7:00	8/24/2023 8:00	1055.6
8/24/2023 8:00	8/24/2023 9:00	1127.1
8/24/2023 9:00	8/24/2023 10:00	1161.8
8/24/2023 10:00	8/24/2023 11:00	1177.1
8/24/2023 11:00	8/24/2023 12:00	1125.2
8/24/2023 12:00	8/24/2023 13:00	1086.9
8/24/2023 13:00	8/24/2023 14:00	1083.4
8/24/2023 14:00	8/24/2023 15:00	1087.8
8/24/2023 15:00	8/24/2023 16:00	1116.1
8/24/2023 16:00	8/24/2023 17:00	1187.7
8/24/2023 17:00	8/24/2023 18:00	1232.0
8/24/2023 18:00	8/24/2023 19:00	1221.1
8/24/2023 19:00	8/24/2023 20:00	1189.9
8/24/2023 20:00	8/24/2023 21:00	1184.5
8/24/2023 21:00	8/24/2023 22:00	1127.5
8/24/2023 22:00	8/24/2023 23:00	1080.3
8/24/2023 23:00	8/25/2023 0:00	1002.7
8/25/2023 0:00	8/25/2023 1:00	947.3
8/25/2023 1:00	8/25/2023 2:00	951.4
8/25/2023 2:00	8/25/2023 3:00	930.9
8/25/2023 3:00	8/25/2023 4:00	917.6
8/25/2023 4:00	8/25/2023 5:00	904.0
8/25/2023 5:00	8/25/2023 6:00	922.3
8/25/2023 6:00	8/25/2023 7:00	981.6
8/25/2023 7:00	8/25/2023 8:00	1004.1
8/25/2023 8:00	8/25/2023 9:00	1055.6
8/25/2023 9:00	8/25/2023 10:00	1125.5
8/25/2023 10:00	8/25/2023 11:00	1162.2
8/25/2023 11:00	8/25/2023 12:00	1183.5
8/25/2023 12:00	8/25/2023 13:00	1186.3

Start Time	End Time	ANL_MW
8/25/2023 13:00	8/25/2023 14:00	1178.8
8/25/2023 14:00	8/25/2023 15:00	1155.4
8/25/2023 15:00	8/25/2023 16:00	1145.0
8/25/2023 16:00	8/25/2023 17:00	1147.9
8/25/2023 17:00	8/25/2023 18:00	1164.5
8/25/2023 18:00	8/25/2023 19:00	1132.2
8/25/2023 19:00	8/25/2023 20:00	1066.7
8/25/2023 20:00	8/25/2023 21:00	1053.7
8/25/2023 21:00	8/25/2023 22:00	1029.2
8/25/2023 22:00	8/25/2023 23:00	948.5
8/25/2023 23:00	8/26/2023 0:00	841.6
8/26/2023 0:00	8/26/2023 1:00	763.1
8/26/2023 1:00	8/26/2023 2:00	703.2
8/26/2023 2:00	8/26/2023 3:00	682.2
8/26/2023 3:00	8/26/2023 4:00	680.1
8/26/2023 4:00	8/26/2023 5:00	656.8
8/26/2023 5:00	8/26/2023 6:00	652.7
8/26/2023 6:00	8/26/2023 7:00	658.3
8/26/2023 7:00	8/26/2023 8:00	751.4
8/26/2023 8:00	8/26/2023 9:00	798.8
8/26/2023 9:00	8/26/2023 10:00	804.7
8/26/2023 10:00	8/26/2023 11:00	835.8
8/26/2023 11:00	8/26/2023 12:00	809.9
8/26/2023 12:00	8/26/2023 13:00	811.2
8/26/2023 13:00	8/26/2023 14:00	779.2
8/26/2023 14:00	8/26/2023 15:00	745.9
8/26/2023 15:00	8/26/2023 16:00	753.1
8/26/2023 16:00	8/26/2023 17:00	768.3
8/26/2023 17:00	8/26/2023 18:00	814.5
8/26/2023 18:00	8/26/2023 19:00	795.9
8/26/2023 19:00	8/26/2023 20:00	786.1
8/26/2023 20:00	8/26/2023 21:00	806.7
8/26/2023 21:00	8/26/2023 22:00	823.1
8/26/2023 22:00	8/26/2023 23:00	784.5
8/26/2023 23:00	8/27/2023 0:00	727.2
8/27/2023 0:00	8/27/2023 1:00	781.8
8/27/2023 1:00	8/27/2023 2:00	799.1
8/27/2023 2:00	8/27/2023 3:00	819.5
8/27/2023 3:00	8/27/2023 4:00	852.9
8/27/2023 4:00	8/27/2023 5:00	866.8
8/27/2023 5:00	8/27/2023 6:00	857.7
8/27/2023 6:00	8/27/2023 7:00	901.0
8/27/2023 7:00	8/27/2023 8:00	930.2
8/27/2023 8:00	8/27/2023 9:00	1024.9
8/27/2023 9:00	8/27/2023 10:00	1075.4
8/27/2023 10:00	8/27/2023 11:00	1125.1
8/27/2023 11:00	8/27/2023 12:00	1156.1
8/27/2023 12:00	8/27/2023 13:00	1184.9
8/27/2023 13:00	8/27/2023 14:00	1172.3
8/27/2023 14:00	8/27/2023 15:00	1162.1
8/27/2023 15:00	8/27/2023 16:00	1169.2
8/27/2023 16:00	8/27/2023 17:00	1193.7
8/27/2023 17:00	8/27/2023 18:00	1211.1
8/27/2023 18:00	8/27/2023 19:00	1195.2
8/27/2023 19:00	8/27/2023 20:00	1173.7
8/27/2023 20:00	8/27/2023 21:00	1167.9
8/27/2023 21:00	8/27/2023 22:00	1132.2
8/27/2023 22:00	8/27/2023 23:00	1089.0
8/27/2023 23:00	8/28/2023 0:00	1026.0
8/28/2023 0:00	8/28/2023 1:00	971.0
8/28/2023 1:00	8/28/2023 2:00	937.1
8/28/2023 2:00	8/28/2023 3:00	920.8
8/28/2023 3:00	8/28/2023 4:00	901.5
8/28/2023 4:00	8/28/2023 5:00	888.2
8/28/2023 5:00	8/28/2023 6:00	911.7
8/28/2023 6:00	8/28/2023 7:00	975.4
8/28/2023 7:00	8/28/2023 8:00	1046.0
8/28/2023 8:00	8/28/2023 9:00	1074.1
8/28/2023 9:00	8/28/2023 10:00	1131.8
8/28/2023 10:00	8/28/2023 11:00	1136.9

Start Time	End Time	ANL_MW
8/28/2023 11:00	8/28/2023 12:00	1148.3
8/28/2023 12:00	8/28/2023 13:00	1114.6
8/28/2023 13:00	8/28/2023 14:00	1108.7
8/28/2023 14:00	8/28/2023 15:00	1108.0
8/28/2023 15:00	8/28/2023 16:00	1121.9
8/28/2023 16:00	8/28/2023 17:00	1165.6
8/28/2023 17:00	8/28/2023 18:00	1199.4
8/28/2023 18:00	8/28/2023 19:00	1187.0
8/28/2023 19:00	8/28/2023 20:00	1189.8
8/28/2023 20:00	8/28/2023 21:00	1190.2
8/28/2023 21:00	8/28/2023 22:00	1140.0
8/28/2023 22:00	8/28/2023 23:00	1084.8
8/28/2023 23:00	8/29/2023 0:00	1022.4
8/29/2023 0:00	8/29/2023 1:00	961.2
8/29/2023 1:00	8/29/2023 2:00	912.2
8/29/2023 2:00	8/29/2023 3:00	884.6
8/29/2023 3:00	8/29/2023 4:00	879.9
8/29/2023 4:00	8/29/2023 5:00	888.7
8/29/2023 5:00	8/29/2023 6:00	921.3
8/29/2023 6:00	8/29/2023 7:00	991.1
8/29/2023 7:00	8/29/2023 8:00	1085.9
8/29/2023 8:00	8/29/2023 9:00	1104.5
8/29/2023 9:00	8/29/2023 10:00	1133.1
8/29/2023 10:00	8/29/2023 11:00	1164.1
8/29/2023 11:00	8/29/2023 12:00	1146.4
8/29/2023 12:00	8/29/2023 13:00	1132.7
8/29/2023 13:00	8/29/2023 14:00	1107.2
8/29/2023 14:00	8/29/2023 15:00	1063.2
8/29/2023 15:00	8/29/2023 16:00	1063.2
8/29/2023 16:00	8/29/2023 17:00	1095.6
8/29/2023 17:00	8/29/2023 18:00	1132.0
8/29/2023 18:00	8/29/2023 19:00	1135.2
8/29/2023 19:00	8/29/2023 20:00	1108.6
8/29/2023 20:00	8/29/2023 21:00	1109.3
8/29/2023 21:00	8/29/2023 22:00	1034.8
8/29/2023 22:00	8/29/2023 23:00	978.6
8/29/2023 23:00	8/30/2023 0:00	945.1
8/30/2023 0:00	8/30/2023 1:00	898.4
8/30/2023 1:00	8/30/2023 2:00	876.3
8/30/2023 2:00	8/30/2023 3:00	876.6
8/30/2023 3:00	8/30/2023 4:00	880.1
8/30/2023 4:00	8/30/2023 5:00	888.4
8/30/2023 5:00	8/30/2023 6:00	906.2
8/30/2023 6:00	8/30/2023 7:00	951.4
8/30/2023 7:00	8/30/2023 8:00	991.6
8/30/2023 8:00	8/30/2023 9:00	1029.8
8/30/2023 9:00	8/30/2023 10:00	1103.6
8/30/2023 10:00	8/30/2023 11:00	1215.8
8/30/2023 11:00	8/30/2023 12:00	1253.4
8/30/2023 12:00	8/30/2023 13:00	1259.5
8/30/2023 13:00	8/30/2023 14:00	1225.3
8/30/2023 14:00	8/30/2023 15:00	1105.4
8/30/2023 15:00	8/30/2023 16:00	1001.9
8/30/2023 16:00	8/30/2023 17:00	1005.9
8/30/2023 17:00	8/30/2023 18:00	1011.7
8/30/2023 18:00	8/30/2023 19:00	984.9
8/30/2023 19:00	8/30/2023 20:00	986.2
8/30/2023 20:00	8/30/2023 21:00	976.2
8/30/2023 21:00	8/30/2023 22:00	908.8
8/30/2023 22:00	8/30/2023 23:00	903.5
8/30/2023 23:00	8/31/2023 0:00	853.8
8/31/2023 0:00	8/31/2023 1:00	844.8
8/31/2023 1:00	8/31/2023 2:00	853.8
8/31/2023 2:00	8/31/2023 3:00	872.2
8/31/2023 3:00	8/31/2023 4:00	879.6
8/31/2023 4:00	8/31/2023 5:00	895.3
8/31/2023 5:00	8/31/2023 6:00	931.2
8/31/2023 6:00	8/31/2023 7:00	1001.8
8/31/2023 7:00	8/31/2023 8:00	1068.4
8/31/2023 8:00	8/31/2023 9:00	1088.6

Start Time	End Time	ANL_MW
8/31/2023 9:00	8/31/2023 10:00	1042.5
8/31/2023 10:00	8/31/2023 11:00	1038.9
8/31/2023 11:00	8/31/2023 12:00	1020.5
8/31/2023 12:00	8/31/2023 13:00	984.9
8/31/2023 13:00	8/31/2023 14:00	960.0
8/31/2023 14:00	8/31/2023 15:00	919.9
8/31/2023 15:00	8/31/2023 16:00	901.6
8/31/2023 16:00	8/31/2023 17:00	908.4
8/31/2023 17:00	8/31/2023 18:00	934.4
8/31/2023 18:00	8/31/2023 19:00	906.5
8/31/2023 19:00	8/31/2023 20:00	906.4
8/31/2023 20:00	8/31/2023 21:00	966.2
8/31/2023 21:00	8/31/2023 22:00	934.6
8/31/2023 22:00	8/31/2023 23:00	926.8
8/31/2023 23:00	9/1/2023 0:00	868.5
9/1/2023 0:00	9/1/2023 1:00	830.8
9/1/2023 1:00	9/1/2023 2:00	822.9
9/1/2023 2:00	9/1/2023 3:00	831.1
9/1/2023 3:00	9/1/2023 4:00	839.2
9/1/2023 4:00	9/1/2023 5:00	856.7
9/1/2023 5:00	9/1/2023 6:00	876.2
9/1/2023 6:00	9/1/2023 7:00	933.1
9/1/2023 7:00	9/1/2023 8:00	1034.3
9/1/2023 8:00	9/1/2023 9:00	1073.2
9/1/2023 9:00	9/1/2023 10:00	1118.9
9/1/2023 10:00	9/1/2023 11:00	1119.1
9/1/2023 11:00	9/1/2023 12:00	1110.1
9/1/2023 12:00	9/1/2023 13:00	1086.6
9/1/2023 13:00	9/1/2023 14:00	1066.2
9/1/2023 14:00	9/1/2023 15:00	1063.1
9/1/2023 15:00	9/1/2023 16:00	1075.8
9/1/2023 16:00	9/1/2023 17:00	1107.1
9/1/2023 17:00	9/1/2023 18:00	1137.7
9/1/2023 18:00	9/1/2023 19:00	1115.4
9/1/2023 19:00	9/1/2023 20:00	1089.3
9/1/2023 20:00	9/1/2023 21:00	1099.8
9/1/2023 21:00	9/1/2023 22:00	1038.7
9/1/2023 22:00	9/1/2023 23:00	959.6
9/1/2023 23:00	9/2/2023 0:00	883.5
9/2/2023 0:00	9/2/2023 1:00	805.3
9/2/2023 1:00	9/2/2023 2:00	753.9
9/2/2023 2:00	9/2/2023 3:00	734.5
9/2/2023 3:00	9/2/2023 4:00	773.4
9/2/2023 4:00	9/2/2023 5:00	797.6
9/2/2023 5:00	9/2/2023 6:00	816.0
9/2/2023 6:00	9/2/2023 7:00	853.9
9/2/2023 7:00	9/2/2023 8:00	920.3
9/2/2023 8:00	9/2/2023 9:00	1016.9
9/2/2023 9:00	9/2/2023 10:00	1051.3
9/2/2023 10:00	9/2/2023 11:00	1078.2
9/2/2023 11:00	9/2/2023 12:00	1068.7
9/2/2023 12:00	9/2/2023 13:00	1026.0
9/2/2023 13:00	9/2/2023 14:00	977.6
9/2/2023 14:00	9/2/2023 15:00	947.2
9/2/2023 15:00	9/2/2023 16:00	942.9
9/2/2023 16:00	9/2/2023 17:00	965.4
9/2/2023 17:00	9/2/2023 18:00	1010.4
9/2/2023 18:00	9/2/2023 19:00	977.8
9/2/2023 19:00	9/2/2023 20:00	960.2
9/2/2023 20:00	9/2/2023 21:00	916.4
9/2/2023 21:00	9/2/2023 22:00	884.8
9/2/2023 22:00	9/2/2023 23:00	822.5
9/2/2023 23:00	9/3/2023 0:00	759.5
9/3/2023 0:00	9/3/2023 1:00	723.8
9/3/2023 1:00	9/3/2023 2:00	684.1
9/3/2023 2:00	9/3/2023 3:00	690.9
9/3/2023 3:00	9/3/2023 4:00	687.7
9/3/2023 4:00	9/3/2023 5:00	638.0
9/3/2023 5:00	9/3/2023 6:00	590.8
9/3/2023 6:00	9/3/2023 7:00	591.8

Start Time	End Time	ANL_MW
9/3/2023 7:00	9/3/2023 8:00	590.0
9/3/2023 8:00	9/3/2023 9:00	664.9
9/3/2023 9:00	9/3/2023 10:00	741.0
9/3/2023 10:00	9/3/2023 11:00	766.5
9/3/2023 11:00	9/3/2023 12:00	792.2
9/3/2023 12:00	9/3/2023 13:00	817.2
9/3/2023 13:00	9/3/2023 14:00	843.0
9/3/2023 14:00	9/3/2023 15:00	847.4
9/3/2023 15:00	9/3/2023 16:00	879.0
9/3/2023 16:00	9/3/2023 17:00	947.4
9/3/2023 17:00	9/3/2023 18:00	980.4
9/3/2023 18:00	9/3/2023 19:00	980.4
9/3/2023 19:00	9/3/2023 20:00	954.5
9/3/2023 20:00	9/3/2023 21:00	942.0
9/3/2023 21:00	9/3/2023 22:00	907.4
9/3/2023 22:00	9/3/2023 23:00	865.4
9/3/2023 23:00	9/4/2023 0:00	793.8
9/4/2023 0:00	9/4/2023 1:00	734.3
9/4/2023 1:00	9/4/2023 2:00	698.7
9/4/2023 2:00	9/4/2023 3:00	718.8
9/4/2023 3:00	9/4/2023 4:00	735.6
9/4/2023 4:00	9/4/2023 5:00	758.7
9/4/2023 5:00	9/4/2023 6:00	780.9
9/4/2023 6:00	9/4/2023 7:00	810.4
9/4/2023 7:00	9/4/2023 8:00	826.4
9/4/2023 8:00	9/4/2023 9:00	902.6
9/4/2023 9:00	9/4/2023 10:00	974.4
9/4/2023 10:00	9/4/2023 11:00	1003.6
9/4/2023 11:00	9/4/2023 12:00	1027.0
9/4/2023 12:00	9/4/2023 13:00	1034.6
9/4/2023 13:00	9/4/2023 14:00	1035.0
9/4/2023 14:00	9/4/2023 15:00	1027.3
9/4/2023 15:00	9/4/2023 16:00	1041.2
9/4/2023 16:00	9/4/2023 17:00	1087.0
9/4/2023 17:00	9/4/2023 18:00	1115.9
9/4/2023 18:00	9/4/2023 19:00	1078.5
9/4/2023 19:00	9/4/2023 20:00	1050.3
9/4/2023 20:00	9/4/2023 21:00	1023.9
9/4/2023 21:00	9/4/2023 22:00	924.1
9/4/2023 22:00	9/4/2023 23:00	822.1
9/4/2023 23:00	9/5/2023 0:00	720.1
9/5/2023 0:00	9/5/2023 1:00	628.8
9/5/2023 1:00	9/5/2023 2:00	582.8
9/5/2023 2:00	9/5/2023 3:00	556.4
9/5/2023 3:00	9/5/2023 4:00	540.3
9/5/2023 4:00	9/5/2023 5:00	546.3
9/5/2023 5:00	9/5/2023 6:00	582.7
9/5/2023 6:00	9/5/2023 7:00	678.0
9/5/2023 7:00	9/5/2023 8:00	737.5
9/5/2023 8:00	9/5/2023 9:00	748.0
9/5/2023 9:00	9/5/2023 10:00	800.5
9/5/2023 10:00	9/5/2023 11:00	810.6
9/5/2023 11:00	9/5/2023 12:00	830.0
9/5/2023 12:00	9/5/2023 13:00	873.8
9/5/2023 13:00	9/5/2023 14:00	841.1
9/5/2023 14:00	9/5/2023 15:00	790.3
9/5/2023 15:00	9/5/2023 16:00	831.2
9/5/2023 16:00	9/5/2023 17:00	922.3
9/5/2023 17:00	9/5/2023 18:00	939.1
9/5/2023 18:00	9/5/2023 19:00	924.9
9/5/2023 19:00	9/5/2023 20:00	925.2
9/5/2023 20:00	9/5/2023 21:00	992.5
9/5/2023 21:00	9/5/2023 22:00	950.4
9/5/2023 22:00	9/5/2023 23:00	858.0
9/5/2023 23:00	9/6/2023 0:00	763.3
9/6/2023 0:00	9/6/2023 1:00	697.3
9/6/2023 1:00	9/6/2023 2:00	660.4
9/6/2023 2:00	9/6/2023 3:00	641.2
9/6/2023 3:00	9/6/2023 4:00	615.8
9/6/2023 4:00	9/6/2023 5:00	608.0

Start Time	End Time	ANL_MW
9/6/2023 5:00	9/6/2023 6:00	590.7
9/6/2023 6:00	9/6/2023 7:00	641.0
9/6/2023 7:00	9/6/2023 8:00	737.4
9/6/2023 8:00	9/6/2023 9:00	814.9
9/6/2023 9:00	9/6/2023 10:00	855.7
9/6/2023 10:00	9/6/2023 11:00	876.3
9/6/2023 11:00	9/6/2023 12:00	913.0
9/6/2023 12:00	9/6/2023 13:00	924.1
9/6/2023 13:00	9/6/2023 14:00	941.4
9/6/2023 14:00	9/6/2023 15:00	944.2
9/6/2023 15:00	9/6/2023 16:00	966.0
9/6/2023 16:00	9/6/2023 17:00	1037.4
9/6/2023 17:00	9/6/2023 18:00	1061.4
9/6/2023 18:00	9/6/2023 19:00	1051.9
9/6/2023 19:00	9/6/2023 20:00	1070.4
9/6/2023 20:00	9/6/2023 21:00	1075.0
9/6/2023 21:00	9/6/2023 22:00	1023.5
9/6/2023 22:00	9/6/2023 23:00	932.2
9/6/2023 23:00	9/7/2023 0:00	853.3
9/7/2023 0:00	9/7/2023 1:00	847.9
9/7/2023 1:00	9/7/2023 2:00	861.0
9/7/2023 2:00	9/7/2023 3:00	872.1
9/7/2023 3:00	9/7/2023 4:00	873.7
9/7/2023 4:00	9/7/2023 5:00	879.6
9/7/2023 5:00	9/7/2023 6:00	924.1
9/7/2023 6:00	9/7/2023 7:00	1036.6
9/7/2023 7:00	9/7/2023 8:00	1117.8
9/7/2023 8:00	9/7/2023 9:00	1136.3
9/7/2023 9:00	9/7/2023 10:00	1167.1
9/7/2023 10:00	9/7/2023 11:00	1188.7
9/7/2023 11:00	9/7/2023 12:00	1151.7
9/7/2023 12:00	9/7/2023 13:00	1139.3
9/7/2023 13:00	9/7/2023 14:00	1129.5
9/7/2023 14:00	9/7/2023 15:00	1124.2
9/7/2023 15:00	9/7/2023 16:00	1143.8
9/7/2023 16:00	9/7/2023 17:00	1198.0
9/7/2023 17:00	9/7/2023 18:00	1235.1
9/7/2023 18:00	9/7/2023 19:00	1189.3
9/7/2023 19:00	9/7/2023 20:00	1157.8
9/7/2023 20:00	9/7/2023 21:00	1149.5
9/7/2023 21:00	9/7/2023 22:00	1072.7
9/7/2023 22:00	9/7/2023 23:00	1014.1
9/7/2023 23:00	9/8/2023 0:00	997.6
9/8/2023 0:00	9/8/2023 1:00	933.6
9/8/2023 1:00	9/8/2023 2:00	901.8
9/8/2023 2:00	9/8/2023 3:00	882.1
9/8/2023 3:00	9/8/2023 4:00	875.7
9/8/2023 4:00	9/8/2023 5:00	877.3
9/8/2023 5:00	9/8/2023 6:00	935.7
9/8/2023 6:00	9/8/2023 7:00	1044.7
9/8/2023 7:00	9/8/2023 8:00	1153.3
9/8/2023 8:00	9/8/2023 9:00	1224.3
9/8/2023 9:00	9/8/2023 10:00	1210.6
9/8/2023 10:00	9/8/2023 11:00	1242.1
9/8/2023 11:00	9/8/2023 12:00	1259.7
9/8/2023 12:00	9/8/2023 13:00	1265.3
9/8/2023 13:00	9/8/2023 14:00	1230.6
9/8/2023 14:00	9/8/2023 15:00	1227.3
9/8/2023 15:00	9/8/2023 16:00	1249.3
9/8/2023 16:00	9/8/2023 17:00	1292.3
9/8/2023 17:00	9/8/2023 18:00	1309.4
9/8/2023 18:00	9/8/2023 19:00	1287.0
9/8/2023 19:00	9/8/2023 20:00	1226.9
9/8/2023 20:00	9/8/2023 21:00	1202.2
9/8/2023 21:00	9/8/2023 22:00	1126.3
9/8/2023 22:00	9/8/2023 23:00	1022.7
9/8/2023 23:00	9/9/2023 0:00	943.3
9/9/2023 0:00	9/9/2023 1:00	868.2
9/9/2023 1:00	9/9/2023 2:00	816.8
9/9/2023 2:00	9/9/2023 3:00	780.7

Start Time	End Time	ANL_MW
9/9/2023 3:00	9/9/2023 4:00	756.6
9/9/2023 4:00	9/9/2023 5:00	777.8
9/9/2023 5:00	9/9/2023 6:00	796.6
9/9/2023 6:00	9/9/2023 7:00	829.5
9/9/2023 7:00	9/9/2023 8:00	898.4
9/9/2023 8:00	9/9/2023 9:00	977.0
9/9/2023 9:00	9/9/2023 10:00	1039.8
9/9/2023 10:00	9/9/2023 11:00	1107.8
9/9/2023 11:00	9/9/2023 12:00	1099.3
9/9/2023 12:00	9/9/2023 13:00	1093.2
9/9/2023 13:00	9/9/2023 14:00	1098.8
9/9/2023 14:00	9/9/2023 15:00	1096.3
9/9/2023 15:00	9/9/2023 16:00	1103.6
9/9/2023 16:00	9/9/2023 17:00	1151.9
9/9/2023 17:00	9/9/2023 18:00	1175.1
9/9/2023 18:00	9/9/2023 19:00	1153.4
9/9/2023 19:00	9/9/2023 20:00	1109.9
9/9/2023 20:00	9/9/2023 21:00	1103.7
9/9/2023 21:00	9/9/2023 22:00	1039.5
9/9/2023 22:00	9/9/2023 23:00	987.7
9/9/2023 23:00	9/10/2023 0:00	938.5
9/10/2023 0:00	9/10/2023 1:00	879.3
9/10/2023 1:00	9/10/2023 2:00	862.0
9/10/2023 2:00	9/10/2023 3:00	865.1
9/10/2023 3:00	9/10/2023 4:00	871.5
9/10/2023 4:00	9/10/2023 5:00	895.8
9/10/2023 5:00	9/10/2023 6:00	917.3
9/10/2023 6:00	9/10/2023 7:00	946.9
9/10/2023 7:00	9/10/2023 8:00	998.6
9/10/2023 8:00	9/10/2023 9:00	1091.2
9/10/2023 9:00	9/10/2023 10:00	1180.7
9/10/2023 10:00	9/10/2023 11:00	1237.6
9/10/2023 11:00	9/10/2023 12:00	1283.4
9/10/2023 12:00	9/10/2023 13:00	1255.3
9/10/2023 13:00	9/10/2023 14:00	1256.2
9/10/2023 14:00	9/10/2023 15:00	1265.2
9/10/2023 15:00	9/10/2023 16:00	1249.5
9/10/2023 16:00	9/10/2023 17:00	1287.6
9/10/2023 17:00	9/10/2023 18:00	1302.4
9/10/2023 18:00	9/10/2023 19:00	1273.9
9/10/2023 19:00	9/10/2023 20:00	1256.9
9/10/2023 20:00	9/10/2023 21:00	1233.4
9/10/2023 21:00	9/10/2023 22:00	1160.2
9/10/2023 22:00	9/10/2023 23:00	1089.2
9/10/2023 23:00	9/11/2023 0:00	1034.7
9/11/2023 0:00	9/11/2023 1:00	969.7
9/11/2023 1:00	9/11/2023 2:00	936.7
9/11/2023 2:00	9/11/2023 3:00	930.6
9/11/2023 3:00	9/11/2023 4:00	916.1
9/11/2023 4:00	9/11/2023 5:00	911.3
9/11/2023 5:00	9/11/2023 6:00	968.7
9/11/2023 6:00	9/11/2023 7:00	1086.7
9/11/2023 7:00	9/11/2023 8:00	1204.0
9/11/2023 8:00	9/11/2023 9:00	1270.0
9/11/2023 9:00	9/11/2023 10:00	1298.3
9/11/2023 10:00	9/11/2023 11:00	1269.5
9/11/2023 11:00	9/11/2023 12:00	1297.3
9/11/2023 12:00	9/11/2023 13:00	1311.7
9/11/2023 13:00	9/11/2023 14:00	1307.1
9/11/2023 14:00	9/11/2023 15:00	1304.3
9/11/2023 15:00	9/11/2023 16:00	1282.5
9/11/2023 16:00	9/11/2023 17:00	1327.6
9/11/2023 17:00	9/11/2023 18:00	1354.4
9/11/2023 18:00	9/11/2023 19:00	1320.3
9/11/2023 19:00	9/11/2023 20:00	1316.7
9/11/2023 20:00	9/11/2023 21:00	1317.5
9/11/2023 21:00	9/11/2023 22:00	1271.5
9/11/2023 22:00	9/11/2023 23:00	1203.2
9/11/2023 23:00	9/12/2023 0:00	1125.3
9/12/2023 0:00	9/12/2023 1:00	1053.4

Start Time	End Time	ANL_MW
9/12/2023 1:00	9/12/2023 2:00	1007.5
9/12/2023 2:00	9/12/2023 3:00	982.1
9/12/2023 3:00	9/12/2023 4:00	970.4
9/12/2023 4:00	9/12/2023 5:00	966.4
9/12/2023 5:00	9/12/2023 6:00	1001.0
9/12/2023 6:00	9/12/2023 7:00	1100.4
9/12/2023 7:00	9/12/2023 8:00	1209.3
9/12/2023 8:00	9/12/2023 9:00	1239.4
9/12/2023 9:00	9/12/2023 10:00	1239.1
9/12/2023 10:00	9/12/2023 11:00	1273.3
9/12/2023 11:00	9/12/2023 12:00	1292.5
9/12/2023 12:00	9/12/2023 13:00	1296.2
9/12/2023 13:00	9/12/2023 14:00	1291.8
9/12/2023 14:00	9/12/2023 15:00	1287.8
9/12/2023 15:00	9/12/2023 16:00	1303.5
9/12/2023 16:00	9/12/2023 17:00	1333.7
9/12/2023 17:00	9/12/2023 18:00	1359.9
9/12/2023 18:00	9/12/2023 19:00	1341.0
9/12/2023 19:00	9/12/2023 20:00	1337.3
9/12/2023 20:00	9/12/2023 21:00	1322.7
9/12/2023 21:00	9/12/2023 22:00	1250.6
9/12/2023 22:00	9/12/2023 23:00	1154.7
9/12/2023 23:00	9/13/2023 0:00	1072.1
9/13/2023 0:00	9/13/2023 1:00	1029.6
9/13/2023 1:00	9/13/2023 2:00	987.1
9/13/2023 2:00	9/13/2023 3:00	968.7
9/13/2023 3:00	9/13/2023 4:00	958.4
9/13/2023 4:00	9/13/2023 5:00	946.5
9/13/2023 5:00	9/13/2023 6:00	983.3
9/13/2023 6:00	9/13/2023 7:00	1083.0
9/13/2023 7:00	9/13/2023 8:00	1190.5
9/13/2023 8:00	9/13/2023 9:00	1235.6
9/13/2023 9:00	9/13/2023 10:00	1272.5
9/13/2023 10:00	9/13/2023 11:00	1294.2
9/13/2023 11:00	9/13/2023 12:00	1310.2
9/13/2023 12:00	9/13/2023 13:00	1307.4
9/13/2023 13:00	9/13/2023 14:00	1315.8
9/13/2023 14:00	9/13/2023 15:00	1303.5
9/13/2023 15:00	9/13/2023 16:00	1273.5
9/13/2023 16:00	9/13/2023 17:00	1297.0
9/13/2023 17:00	9/13/2023 18:00	1304.6
9/13/2023 18:00	9/13/2023 19:00	1265.9
9/13/2023 19:00	9/13/2023 20:00	1246.8
9/13/2023 20:00	9/13/2023 21:00	1202.4
9/13/2023 21:00	9/13/2023 22:00	1113.5
9/13/2023 22:00	9/13/2023 23:00	1011.2
9/13/2023 23:00	9/14/2023 0:00	945.7
9/14/2023 0:00	9/14/2023 1:00	897.6
9/14/2023 1:00	9/14/2023 2:00	846.4
9/14/2023 2:00	9/14/2023 3:00	840.4
9/14/2023 3:00	9/14/2023 4:00	836.4
9/14/2023 4:00	9/14/2023 5:00	846.1
9/14/2023 5:00	9/14/2023 6:00	894.1
9/14/2023 6:00	9/14/2023 7:00	999.4
9/14/2023 7:00	9/14/2023 8:00	1101.3
9/14/2023 8:00	9/14/2023 9:00	1126.3
9/14/2023 9:00	9/14/2023 10:00	1160.2
9/14/2023 10:00	9/14/2023 11:00	1186.5
9/14/2023 11:00	9/14/2023 12:00	1205.4
9/14/2023 12:00	9/14/2023 13:00	1171.1
9/14/2023 13:00	9/14/2023 14:00	1144.3
9/14/2023 14:00	9/14/2023 15:00	1079.1
9/14/2023 15:00	9/14/2023 16:00	1042.0
9/14/2023 16:00	9/14/2023 17:00	1086.0
9/14/2023 17:00	9/14/2023 18:00	1149.3
9/14/2023 18:00	9/14/2023 19:00	1161.2
9/14/2023 19:00	9/14/2023 20:00	1188.9
9/14/2023 20:00	9/14/2023 21:00	1190.2
9/14/2023 21:00	9/14/2023 22:00	1118.4
9/14/2023 22:00	9/14/2023 23:00	1042.3

Start Time	End Time	ANL_MW
9/14/2023 23:00	9/15/2023 0:00	1008.1
9/15/2023 0:00	9/15/2023 1:00	985.1
9/15/2023 1:00	9/15/2023 2:00	947.2
9/15/2023 2:00	9/15/2023 3:00	923.0
9/15/2023 3:00	9/15/2023 4:00	900.3
9/15/2023 4:00	9/15/2023 5:00	897.4
9/15/2023 5:00	9/15/2023 6:00	948.7
9/15/2023 6:00	9/15/2023 7:00	1016.4
9/15/2023 7:00	9/15/2023 8:00	1088.9
9/15/2023 8:00	9/15/2023 9:00	1146.1
9/15/2023 9:00	9/15/2023 10:00	1194.1
9/15/2023 10:00	9/15/2023 11:00	1212.0
9/15/2023 11:00	9/15/2023 12:00	1211.7
9/15/2023 12:00	9/15/2023 13:00	1199.2
9/15/2023 13:00	9/15/2023 14:00	1173.3
9/15/2023 14:00	9/15/2023 15:00	1172.2
9/15/2023 15:00	9/15/2023 16:00	1186.2
9/15/2023 16:00	9/15/2023 17:00	1194.1
9/15/2023 17:00	9/15/2023 18:00	1203.1
9/15/2023 18:00	9/15/2023 19:00	1148.3
9/15/2023 19:00	9/15/2023 20:00	1094.8
9/15/2023 20:00	9/15/2023 21:00	1016.4
9/15/2023 21:00	9/15/2023 22:00	920.0
9/15/2023 22:00	9/15/2023 23:00	831.1
9/15/2023 23:00	9/16/2023 0:00	734.1
9/16/2023 0:00	9/16/2023 1:00	675.7
9/16/2023 1:00	9/16/2023 2:00	630.2
9/16/2023 2:00	9/16/2023 3:00	595.3
9/16/2023 3:00	9/16/2023 4:00	592.9
9/16/2023 4:00	9/16/2023 5:00	586.9
9/16/2023 5:00	9/16/2023 6:00	574.1
9/16/2023 6:00	9/16/2023 7:00	602.7
9/16/2023 7:00	9/16/2023 8:00	664.3
9/16/2023 8:00	9/16/2023 9:00	730.6
9/16/2023 9:00	9/16/2023 10:00	781.4
9/16/2023 10:00	9/16/2023 11:00	787.7
9/16/2023 11:00	9/16/2023 12:00	763.4
9/16/2023 12:00	9/16/2023 13:00	792.5
9/16/2023 13:00	9/16/2023 14:00	750.6
9/16/2023 14:00	9/16/2023 15:00	728.4
9/16/2023 15:00	9/16/2023 16:00	712.8
9/16/2023 16:00	9/16/2023 17:00	712.3
9/16/2023 17:00	9/16/2023 18:00	676.7
9/16/2023 18:00	9/16/2023 19:00	663.3
9/16/2023 19:00	9/16/2023 20:00	650.0
9/16/2023 20:00	9/16/2023 21:00	633.1
9/16/2023 21:00	9/16/2023 22:00	611.9
9/16/2023 22:00	9/16/2023 23:00	603.1
9/16/2023 23:00	9/17/2023 0:00	604.2
9/17/2023 0:00	9/17/2023 1:00	565.9
9/17/2023 1:00	9/17/2023 2:00	547.3
9/17/2023 2:00	9/17/2023 3:00	541.0
9/17/2023 3:00	9/17/2023 4:00	535.0
9/17/2023 4:00	9/17/2023 5:00	532.5
9/17/2023 5:00	9/17/2023 6:00	540.8
9/17/2023 6:00	9/17/2023 7:00	561.0
9/17/2023 7:00	9/17/2023 8:00	602.6
9/17/2023 8:00	9/17/2023 9:00	592.5
9/17/2023 9:00	9/17/2023 10:00	621.2
9/17/2023 10:00	9/17/2023 11:00	692.2
9/17/2023 11:00	9/17/2023 12:00	761.5
9/17/2023 12:00	9/17/2023 13:00	810.0
9/17/2023 13:00	9/17/2023 14:00	773.3
9/17/2023 14:00	9/17/2023 15:00	763.3
9/17/2023 15:00	9/17/2023 16:00	791.6
9/17/2023 16:00	9/17/2023 17:00	873.5
9/17/2023 17:00	9/17/2023 18:00	953.1
9/17/2023 18:00	9/17/2023 19:00	961.5
9/17/2023 19:00	9/17/2023 20:00	957.2
9/17/2023 20:00	9/17/2023 21:00	907.4

Start Time	End Time	ANL_MW
9/17/2023 21:00	9/17/2023 22:00	850.1
9/17/2023 22:00	9/17/2023 23:00	794.8
9/17/2023 23:00	9/18/2023 0:00	774.5
9/18/2023 0:00	9/18/2023 1:00	746.2
9/18/2023 1:00	9/18/2023 2:00	728.4
9/18/2023 2:00	9/18/2023 3:00	730.6
9/18/2023 3:00	9/18/2023 4:00	754.0
9/18/2023 4:00	9/18/2023 5:00	777.2
9/18/2023 5:00	9/18/2023 6:00	842.6
9/18/2023 6:00	9/18/2023 7:00	912.7
9/18/2023 7:00	9/18/2023 8:00	1007.5
9/18/2023 8:00	9/18/2023 9:00	1070.8
9/18/2023 9:00	9/18/2023 10:00	1100.6
9/18/2023 10:00	9/18/2023 11:00	1110.2
9/18/2023 11:00	9/18/2023 12:00	1137.5
9/18/2023 12:00	9/18/2023 13:00	1153.8
9/18/2023 13:00	9/18/2023 14:00	1169.4
9/18/2023 14:00	9/18/2023 15:00	1180.6
9/18/2023 15:00	9/18/2023 16:00	1189.0
9/18/2023 16:00	9/18/2023 17:00	1218.4
9/18/2023 17:00	9/18/2023 18:00	1240.9
9/18/2023 18:00	9/18/2023 19:00	1208.0
9/18/2023 19:00	9/18/2023 20:00	1208.6
9/18/2023 20:00	9/18/2023 21:00	1194.7
9/18/2023 21:00	9/18/2023 22:00	1109.4
9/18/2023 22:00	9/18/2023 23:00	1052.0
9/18/2023 23:00	9/19/2023 0:00	949.4
9/19/2023 0:00	9/19/2023 1:00	881.8
9/19/2023 1:00	9/19/2023 2:00	850.8
9/19/2023 2:00	9/19/2023 3:00	800.6
9/19/2023 3:00	9/19/2023 4:00	777.9
9/19/2023 4:00	9/19/2023 5:00	771.7
9/19/2023 5:00	9/19/2023 6:00	793.1
9/19/2023 6:00	9/19/2023 7:00	822.6
9/19/2023 7:00	9/19/2023 8:00	869.5
9/19/2023 8:00	9/19/2023 9:00	897.5
9/19/2023 9:00	9/19/2023 10:00	907.2
9/19/2023 10:00	9/19/2023 11:00	913.6
9/19/2023 11:00	9/19/2023 12:00	929.8
9/19/2023 12:00	9/19/2023 13:00	906.7
9/19/2023 13:00	9/19/2023 14:00	851.3
9/19/2023 14:00	9/19/2023 15:00	835.4
9/19/2023 15:00	9/19/2023 16:00	890.1
9/19/2023 16:00	9/19/2023 17:00	953.2
9/19/2023 17:00	9/19/2023 18:00	974.5
9/19/2023 18:00	9/19/2023 19:00	961.1
9/19/2023 19:00	9/19/2023 20:00	959.5
9/19/2023 20:00	9/19/2023 21:00	935.2
9/19/2023 21:00	9/19/2023 22:00	884.8
9/19/2023 22:00	9/19/2023 23:00	816.5
9/19/2023 23:00	9/20/2023 0:00	741.5
9/20/2023 0:00	9/20/2023 1:00	705.2
9/20/2023 1:00	9/20/2023 2:00	656.9
9/20/2023 2:00	9/20/2023 3:00	627.8
9/20/2023 3:00	9/20/2023 4:00	613.6
9/20/2023 4:00	9/20/2023 5:00	616.3
9/20/2023 5:00	9/20/2023 6:00	662.0
9/20/2023 6:00	9/20/2023 7:00	783.8
9/20/2023 7:00	9/20/2023 8:00	851.8
9/20/2023 8:00	9/20/2023 9:00	903.4
9/20/2023 9:00	9/20/2023 10:00	936.1
9/20/2023 10:00	9/20/2023 11:00	921.9
9/20/2023 11:00	9/20/2023 12:00	924.5
9/20/2023 12:00	9/20/2023 13:00	921.2
9/20/2023 13:00	9/20/2023 14:00	901.1
9/20/2023 14:00	9/20/2023 15:00	913.0
9/20/2023 15:00	9/20/2023 16:00	916.4
9/20/2023 16:00	9/20/2023 17:00	978.5
9/20/2023 17:00	9/20/2023 18:00	1035.1
9/20/2023 18:00	9/20/2023 19:00	1052.6

Start Time	End Time	ANL_MW
9/20/2023 19:00	9/20/2023 20:00	1032.3
9/20/2023 20:00	9/20/2023 21:00	1040.9
9/20/2023 21:00	9/20/2023 22:00	998.5
9/20/2023 22:00	9/20/2023 23:00	911.6
9/20/2023 23:00	9/21/2023 0:00	848.5
9/21/2023 0:00	9/21/2023 1:00	836.1
9/21/2023 1:00	9/21/2023 2:00	796.3
9/21/2023 2:00	9/21/2023 3:00	760.3
9/21/2023 3:00	9/21/2023 4:00	749.1
9/21/2023 4:00	9/21/2023 5:00	752.7
9/21/2023 5:00	9/21/2023 6:00	772.1
9/21/2023 6:00	9/21/2023 7:00	848.3
9/21/2023 7:00	9/21/2023 8:00	949.5
9/21/2023 8:00	9/21/2023 9:00	1017.2
9/21/2023 9:00	9/21/2023 10:00	1019.9
9/21/2023 10:00	9/21/2023 11:00	977.7
9/21/2023 11:00	9/21/2023 12:00	966.0
9/21/2023 12:00	9/21/2023 13:00	965.0
9/21/2023 13:00	9/21/2023 14:00	892.4
9/21/2023 14:00	9/21/2023 15:00	831.3
9/21/2023 15:00	9/21/2023 16:00	828.7
9/21/2023 16:00	9/21/2023 17:00	841.2
9/21/2023 17:00	9/21/2023 18:00	886.7
9/21/2023 18:00	9/21/2023 19:00	901.6
9/21/2023 19:00	9/21/2023 20:00	948.5
9/21/2023 20:00	9/21/2023 21:00	963.7
9/21/2023 21:00	9/21/2023 22:00	943.4
9/21/2023 22:00	9/21/2023 23:00	874.3
9/21/2023 23:00	9/22/2023 0:00	852.2
9/22/2023 0:00	9/22/2023 1:00	807.9
9/22/2023 1:00	9/22/2023 2:00	779.6
9/22/2023 2:00	9/22/2023 3:00	752.7
9/22/2023 3:00	9/22/2023 4:00	765.7
9/22/2023 4:00	9/22/2023 5:00	797.1
9/22/2023 5:00	9/22/2023 6:00	852.8
9/22/2023 6:00	9/22/2023 7:00	921.5
9/22/2023 7:00	9/22/2023 8:00	1026.3
9/22/2023 8:00	9/22/2023 9:00	1079.7
9/22/2023 9:00	9/22/2023 10:00	1095.8
9/22/2023 10:00	9/22/2023 11:00	1079.3
9/22/2023 11:00	9/22/2023 12:00	1076.4
9/22/2023 12:00	9/22/2023 13:00	1074.2
9/22/2023 13:00	9/22/2023 14:00	1058.3
9/22/2023 14:00	9/22/2023 15:00	1039.7
9/22/2023 15:00	9/22/2023 16:00	1046.2
9/22/2023 16:00	9/22/2023 17:00	1110.9
9/22/2023 17:00	9/22/2023 18:00	1146.5
9/22/2023 18:00	9/22/2023 19:00	1150.5
9/22/2023 19:00	9/22/2023 20:00	1147.4
9/22/2023 20:00	9/22/2023 21:00	1141.2
9/22/2023 21:00	9/22/2023 22:00	1065.7
9/22/2023 22:00	9/22/2023 23:00	967.6
9/22/2023 23:00	9/23/2023 0:00	879.5
9/23/2023 0:00	9/23/2023 1:00	804.4
9/23/2023 1:00	9/23/2023 2:00	750.8
9/23/2023 2:00	9/23/2023 3:00	721.9
9/23/2023 3:00	9/23/2023 4:00	687.4
9/23/2023 4:00	9/23/2023 5:00	687.3
9/23/2023 5:00	9/23/2023 6:00	697.8
9/23/2023 6:00	9/23/2023 7:00	730.7
9/23/2023 7:00	9/23/2023 8:00	782.3
9/23/2023 8:00	9/23/2023 9:00	856.4
9/23/2023 9:00	9/23/2023 10:00	917.3
9/23/2023 10:00	9/23/2023 11:00	921.0
9/23/2023 11:00	9/23/2023 12:00	902.0
9/23/2023 12:00	9/23/2023 13:00	884.4
9/23/2023 13:00	9/23/2023 14:00	853.4
9/23/2023 14:00	9/23/2023 15:00	862.2
9/23/2023 15:00	9/23/2023 16:00	884.8
9/23/2023 16:00	9/23/2023 17:00	929.9

Start Time	End Time	ANL_MW
9/23/2023 17:00	9/23/2023 18:00	980.8
9/23/2023 18:00	9/23/2023 19:00	965.4
9/23/2023 19:00	9/23/2023 20:00	985.4
9/23/2023 20:00	9/23/2023 21:00	986.4
9/23/2023 21:00	9/23/2023 22:00	953.6
9/23/2023 22:00	9/23/2023 23:00	900.5
9/23/2023 23:00	9/24/2023 0:00	856.9
9/24/2023 0:00	9/24/2023 1:00	851.1
9/24/2023 1:00	9/24/2023 2:00	819.5
9/24/2023 2:00	9/24/2023 3:00	804.5
9/24/2023 3:00	9/24/2023 4:00	811.7
9/24/2023 4:00	9/24/2023 5:00	831.8
9/24/2023 5:00	9/24/2023 6:00	853.1
9/24/2023 6:00	9/24/2023 7:00	888.9
9/24/2023 7:00	9/24/2023 8:00	944.1
9/24/2023 8:00	9/24/2023 9:00	967.4
9/24/2023 9:00	9/24/2023 10:00	1018.8
9/24/2023 10:00	9/24/2023 11:00	1051.9
9/24/2023 11:00	9/24/2023 12:00	1104.4
9/24/2023 12:00	9/24/2023 13:00	1108.2
9/24/2023 13:00	9/24/2023 14:00	1095.5
9/24/2023 14:00	9/24/2023 15:00	1078.1
9/24/2023 15:00	9/24/2023 16:00	1086.0
9/24/2023 16:00	9/24/2023 17:00	1128.6
9/24/2023 17:00	9/24/2023 18:00	1140.1
9/24/2023 18:00	9/24/2023 19:00	1116.0
9/24/2023 19:00	9/24/2023 20:00	1137.9
9/24/2023 20:00	9/24/2023 21:00	1113.9
9/24/2023 21:00	9/24/2023 22:00	1076.8
9/24/2023 22:00	9/24/2023 23:00	1018.4
9/24/2023 23:00	9/25/2023 0:00	942.9
9/25/2023 0:00	9/25/2023 1:00	899.7
9/25/2023 1:00	9/25/2023 2:00	871.1
9/25/2023 2:00	9/25/2023 3:00	858.3
9/25/2023 3:00	9/25/2023 4:00	814.8
9/25/2023 4:00	9/25/2023 5:00	760.0
9/25/2023 5:00	9/25/2023 6:00	775.2
9/25/2023 6:00	9/25/2023 7:00	863.5
9/25/2023 7:00	9/25/2023 8:00	897.4
9/25/2023 8:00	9/25/2023 9:00	906.7
9/25/2023 9:00	9/25/2023 10:00	920.8
9/25/2023 10:00	9/25/2023 11:00	862.6
9/25/2023 11:00	9/25/2023 12:00	829.3
9/25/2023 12:00	9/25/2023 13:00	800.3
9/25/2023 13:00	9/25/2023 14:00	769.8
9/25/2023 14:00	9/25/2023 15:00	735.4
9/25/2023 15:00	9/25/2023 16:00	738.1
9/25/2023 16:00	9/25/2023 17:00	770.4
9/25/2023 17:00	9/25/2023 18:00	840.9
9/25/2023 18:00	9/25/2023 19:00	859.6
9/25/2023 19:00	9/25/2023 20:00	900.6
9/25/2023 20:00	9/25/2023 21:00	883.9
9/25/2023 21:00	9/25/2023 22:00	825.1
9/25/2023 22:00	9/25/2023 23:00	746.6
9/25/2023 23:00	9/26/2023 0:00	696.6
9/26/2023 0:00	9/26/2023 1:00	720.8
9/26/2023 1:00	9/26/2023 2:00	749.2
9/26/2023 2:00	9/26/2023 3:00	743.1
9/26/2023 3:00	9/26/2023 4:00	736.4
9/26/2023 4:00	9/26/2023 5:00	745.8
9/26/2023 5:00	9/26/2023 6:00	770.1
9/26/2023 6:00	9/26/2023 7:00	838.3
9/26/2023 7:00	9/26/2023 8:00	914.3
9/26/2023 8:00	9/26/2023 9:00	962.2
9/26/2023 9:00	9/26/2023 10:00	994.1
9/26/2023 10:00	9/26/2023 11:00	983.5
9/26/2023 11:00	9/26/2023 12:00	965.9
9/26/2023 12:00	9/26/2023 13:00	974.5
9/26/2023 13:00	9/26/2023 14:00	968.2
9/26/2023 14:00	9/26/2023 15:00	969.8

Start Time	End Time	ANL_MW
9/26/2023 15:00	9/26/2023 16:00	984.8
9/26/2023 16:00	9/26/2023 17:00	1032.9
9/26/2023 17:00	9/26/2023 18:00	1072.4
9/26/2023 18:00	9/26/2023 19:00	1065.6
9/26/2023 19:00	9/26/2023 20:00	1075.7
9/26/2023 20:00	9/26/2023 21:00	1053.1
9/26/2023 21:00	9/26/2023 22:00	980.9
9/26/2023 22:00	9/26/2023 23:00	953.4
9/26/2023 23:00	9/27/2023 0:00	876.3
9/27/2023 0:00	9/27/2023 1:00	861.8
9/27/2023 1:00	9/27/2023 2:00	840.5
9/27/2023 2:00	9/27/2023 3:00	820.5
9/27/2023 3:00	9/27/2023 4:00	834.6
9/27/2023 4:00	9/27/2023 5:00	859.5
9/27/2023 5:00	9/27/2023 6:00	884.2
9/27/2023 6:00	9/27/2023 7:00	962.1
9/27/2023 7:00	9/27/2023 8:00	1099.2
9/27/2023 8:00	9/27/2023 9:00	1152.4
9/27/2023 9:00	9/27/2023 10:00	1159.2
9/27/2023 10:00	9/27/2023 11:00	1152.2
9/27/2023 11:00	9/27/2023 12:00	1147.8
9/27/2023 12:00	9/27/2023 13:00	1137.3
9/27/2023 13:00	9/27/2023 14:00	1123.5
9/27/2023 14:00	9/27/2023 15:00	1117.4
9/27/2023 15:00	9/27/2023 16:00	1125.7
9/27/2023 16:00	9/27/2023 17:00	1194.0
9/27/2023 17:00	9/27/2023 18:00	1251.2
9/27/2023 18:00	9/27/2023 19:00	1240.5
9/27/2023 19:00	9/27/2023 20:00	1257.0
9/27/2023 20:00	9/27/2023 21:00	1231.6
9/27/2023 21:00	9/27/2023 22:00	1159.3
9/27/2023 22:00	9/27/2023 23:00	1071.8
9/27/2023 23:00	9/28/2023 0:00	991.5
9/28/2023 0:00	9/28/2023 1:00	929.2
9/28/2023 1:00	9/28/2023 2:00	885.6
9/28/2023 2:00	9/28/2023 3:00	854.4
9/28/2023 3:00	9/28/2023 4:00	833.8
9/28/2023 4:00	9/28/2023 5:00	846.2
9/28/2023 5:00	9/28/2023 6:00	908.0
9/28/2023 6:00	9/28/2023 7:00	995.8
9/28/2023 7:00	9/28/2023 8:00	1084.9
9/28/2023 8:00	9/28/2023 9:00	1115.3
9/28/2023 9:00	9/28/2023 10:00	1136.3
9/28/2023 10:00	9/28/2023 11:00	1141.0
9/28/2023 11:00	9/28/2023 12:00	1134.1
9/28/2023 12:00	9/28/2023 13:00	1121.9
9/28/2023 13:00	9/28/2023 14:00	1109.3
9/28/2023 14:00	9/28/2023 15:00	1097.5
9/28/2023 15:00	9/28/2023 16:00	1101.8
9/28/2023 16:00	9/28/2023 17:00	1135.2
9/28/2023 17:00	9/28/2023 18:00	1152.3
9/28/2023 18:00	9/28/2023 19:00	1135.7
9/28/2023 19:00	9/28/2023 20:00	1158.3
9/28/2023 20:00	9/28/2023 21:00	1113.0
9/28/2023 21:00	9/28/2023 22:00	1035.3
9/28/2023 22:00	9/28/2023 23:00	969.9
9/28/2023 23:00	9/29/2023 0:00	908.7
9/29/2023 0:00	9/29/2023 1:00	872.8
9/29/2023 1:00	9/29/2023 2:00	848.9
9/29/2023 2:00	9/29/2023 3:00	843.2
9/29/2023 3:00	9/29/2023 4:00	863.8
9/29/2023 4:00	9/29/2023 5:00	875.5
9/29/2023 5:00	9/29/2023 6:00	913.1
9/29/2023 6:00	9/29/2023 7:00	1032.0
9/29/2023 7:00	9/29/2023 8:00	1147.7
9/29/2023 8:00	9/29/2023 9:00	1182.8
9/29/2023 9:00	9/29/2023 10:00	1175.3
9/29/2023 10:00	9/29/2023 11:00	1165.3
9/29/2023 11:00	9/29/2023 12:00	1139.3
9/29/2023 12:00	9/29/2023 13:00	1113.7

Start Time	End Time	ANL_MW
9/29/2023 13:00	9/29/2023 14:00	1095.5
9/29/2023 14:00	9/29/2023 15:00	1092.6
9/29/2023 15:00	9/29/2023 16:00	1091.3
9/29/2023 16:00	9/29/2023 17:00	1132.5
9/29/2023 17:00	9/29/2023 18:00	1148.4
9/29/2023 18:00	9/29/2023 19:00	1182.7
9/29/2023 19:00	9/29/2023 20:00	1205.4
9/29/2023 20:00	9/29/2023 21:00	1174.7
9/29/2023 21:00	9/29/2023 22:00	1136.3
9/29/2023 22:00	9/29/2023 23:00	1061.4
9/29/2023 23:00	9/30/2023 0:00	1016.7
9/30/2023 0:00	9/30/2023 1:00	958.0
9/30/2023 1:00	9/30/2023 2:00	897.2
9/30/2023 2:00	9/30/2023 3:00	860.8
9/30/2023 3:00	9/30/2023 4:00	876.0
9/30/2023 4:00	9/30/2023 5:00	882.8
9/30/2023 5:00	9/30/2023 6:00	905.6
9/30/2023 6:00	9/30/2023 7:00	959.5
9/30/2023 7:00	9/30/2023 8:00	1031.1
9/30/2023 8:00	9/30/2023 9:00	1072.3
9/30/2023 9:00	9/30/2023 10:00	1126.8
9/30/2023 10:00	9/30/2023 11:00	1147.2
9/30/2023 11:00	9/30/2023 12:00	1148.6
9/30/2023 12:00	9/30/2023 13:00	1127.2
9/30/2023 13:00	9/30/2023 14:00	1106.3
9/30/2023 14:00	9/30/2023 15:00	1128.2
9/30/2023 15:00	9/30/2023 16:00	1125.0
9/30/2023 16:00	9/30/2023 17:00	1151.7
9/30/2023 17:00	9/30/2023 18:00	1178.1
9/30/2023 18:00	9/30/2023 19:00	1174.1
9/30/2023 19:00	9/30/2023 20:00	1189.9
9/30/2023 20:00	9/30/2023 21:00	1150.3
9/30/2023 21:00	9/30/2023 22:00	1087.9
9/30/2023 22:00	9/30/2023 23:00	1035.2
9/30/2023 23:00	10/1/2023 0:00	1004.2
10/1/2023 0:00	10/1/2023 1:00	987.4
10/1/2023 1:00	10/1/2023 2:00	883.4
10/1/2023 2:00	10/1/2023 3:00	883.2
10/1/2023 3:00	10/1/2023 4:00	878.8
10/1/2023 4:00	10/1/2023 5:00	883.2
10/1/2023 5:00	10/1/2023 6:00	895.9
10/1/2023 6:00	10/1/2023 7:00	931.6
10/1/2023 7:00	10/1/2023 8:00	985.3
10/1/2023 8:00	10/1/2023 9:00	1073.4
10/1/2023 9:00	10/1/2023 10:00	1102.0
10/1/2023 10:00	10/1/2023 11:00	1114.3
10/1/2023 11:00	10/1/2023 12:00	1111.9
10/1/2023 12:00	10/1/2023 13:00	1105.3
10/1/2023 13:00	10/1/2023 14:00	1118.3
10/1/2023 14:00	10/1/2023 15:00	1103.9
10/1/2023 15:00	10/1/2023 16:00	1118.7
10/1/2023 16:00	10/1/2023 17:00	1164.7
10/1/2023 17:00	10/1/2023 18:00	1198.2
10/1/2023 18:00	10/1/2023 19:00	1189.9
10/1/2023 19:00	10/1/2023 20:00	1214.1
10/1/2023 20:00	10/1/2023 21:00	1190.7
10/1/2023 21:00	10/1/2023 22:00	1122.3
10/1/2023 22:00	10/1/2023 23:00	1012.9
10/1/2023 23:00	10/2/2023 0:00	870.7
10/2/2023 0:00	10/2/2023 1:00	783.7
10/2/2023 1:00	10/2/2023 2:00	749.8
10/2/2023 2:00	10/2/2023 3:00	733.5
10/2/2023 3:00	10/2/2023 4:00	723.4
10/2/2023 4:00	10/2/2023 5:00	722.8
10/2/2023 5:00	10/2/2023 6:00	745.3
10/2/2023 6:00	10/2/2023 7:00	753.9
10/2/2023 7:00	10/2/2023 8:00	813.9
10/2/2023 8:00	10/2/2023 9:00	936.1
10/2/2023 9:00	10/2/2023 10:00	1027.6
10/2/2023 10:00	10/2/2023 11:00	1063.2

Start Time	End Time	ANL_MW
10/2/2023 11:00	10/2/2023 12:00	1023.7
10/2/2023 12:00	10/2/2023 13:00	1037.1
10/2/2023 13:00	10/2/2023 14:00	1058.5
10/2/2023 14:00	10/2/2023 15:00	1054.3
10/2/2023 15:00	10/2/2023 16:00	1043.0
10/2/2023 16:00	10/2/2023 17:00	1098.4
10/2/2023 17:00	10/2/2023 18:00	1144.7
10/2/2023 18:00	10/2/2023 19:00	1117.9
10/2/2023 19:00	10/2/2023 20:00	1117.3
10/2/2023 20:00	10/2/2023 21:00	1076.6
10/2/2023 21:00	10/2/2023 22:00	1001.1
10/2/2023 22:00	10/2/2023 23:00	932.1
10/2/2023 23:00	10/3/2023 0:00	914.7
10/3/2023 0:00	10/3/2023 1:00	857.7
10/3/2023 1:00	10/3/2023 2:00	881.4
10/3/2023 2:00	10/3/2023 3:00	821.5
10/3/2023 3:00	10/3/2023 4:00	791.0
10/3/2023 4:00	10/3/2023 5:00	743.5
10/3/2023 5:00	10/3/2023 6:00	784.3
10/3/2023 6:00	10/3/2023 7:00	880.6
10/3/2023 7:00	10/3/2023 8:00	906.1
10/3/2023 8:00	10/3/2023 9:00	904.5
10/3/2023 9:00	10/3/2023 10:00	931.2
10/3/2023 10:00	10/3/2023 11:00	968.8
10/3/2023 11:00	10/3/2023 12:00	984.6
10/3/2023 12:00	10/3/2023 13:00	1015.7
10/3/2023 13:00	10/3/2023 14:00	1035.5
10/3/2023 14:00	10/3/2023 15:00	1050.2
10/3/2023 15:00	10/3/2023 16:00	1073.7
10/3/2023 16:00	10/3/2023 17:00	1110.8
10/3/2023 17:00	10/3/2023 18:00	1138.7
10/3/2023 18:00	10/3/2023 19:00	1025.1
10/3/2023 19:00	10/3/2023 20:00	998.5
10/3/2023 20:00	10/3/2023 21:00	938.9
10/3/2023 21:00	10/3/2023 22:00	850.7
10/3/2023 22:00	10/3/2023 23:00	761.1
10/3/2023 23:00	10/4/2023 0:00	683.1
10/4/2023 0:00	10/4/2023 1:00	646.3
10/4/2023 1:00	10/4/2023 2:00	639.3
10/4/2023 2:00	10/4/2023 3:00	658.0
10/4/2023 3:00	10/4/2023 4:00	654.6
10/4/2023 4:00	10/4/2023 5:00	668.1
10/4/2023 5:00	10/4/2023 6:00	766.7
10/4/2023 6:00	10/4/2023 7:00	867.3
10/4/2023 7:00	10/4/2023 8:00	980.3
10/4/2023 8:00	10/4/2023 9:00	1045.4
10/4/2023 9:00	10/4/2023 10:00	1075.4
10/4/2023 10:00	10/4/2023 11:00	1099.3
10/4/2023 11:00	10/4/2023 12:00	1107.4
10/4/2023 12:00	10/4/2023 13:00	1111.7
10/4/2023 13:00	10/4/2023 14:00	1110.0
10/4/2023 14:00	10/4/2023 15:00	1111.6
10/4/2023 15:00	10/4/2023 16:00	1132.9
10/4/2023 16:00	10/4/2023 17:00	1176.1
10/4/2023 17:00	10/4/2023 18:00	1213.8
10/4/2023 18:00	10/4/2023 19:00	1194.7
10/4/2023 19:00	10/4/2023 20:00	1209.8
10/4/2023 20:00	10/4/2023 21:00	1176.8
10/4/2023 21:00	10/4/2023 22:00	1095.6
10/4/2023 22:00	10/4/2023 23:00	992.7
10/4/2023 23:00	10/5/2023 0:00	949.7
10/5/2023 0:00	10/5/2023 1:00	869.9
10/5/2023 1:00	10/5/2023 2:00	825.7
10/5/2023 2:00	10/5/2023 3:00	792.1
10/5/2023 3:00	10/5/2023 4:00	779.2
10/5/2023 4:00	10/5/2023 5:00	793.1
10/5/2023 5:00	10/5/2023 6:00	796.0
10/5/2023 6:00	10/5/2023 7:00	928.4
10/5/2023 7:00	10/5/2023 8:00	1073.8
10/5/2023 8:00	10/5/2023 9:00	1103.9

Start Time	End Time	ANL_MW
10/5/2023 9:00	10/5/2023 10:00	1146.0
10/5/2023 10:00	10/5/2023 11:00	1100.0
10/5/2023 11:00	10/5/2023 12:00	1100.7
10/5/2023 12:00	10/5/2023 13:00	1081.7
10/5/2023 13:00	10/5/2023 14:00	1045.5
10/5/2023 14:00	10/5/2023 15:00	1023.1
10/5/2023 15:00	10/5/2023 16:00	1012.3
10/5/2023 16:00	10/5/2023 17:00	1050.3
10/5/2023 17:00	10/5/2023 18:00	1082.1
10/5/2023 18:00	10/5/2023 19:00	1054.8
10/5/2023 19:00	10/5/2023 20:00	1023.6
10/5/2023 20:00	10/5/2023 21:00	997.5
10/5/2023 21:00	10/5/2023 22:00	924.6
10/5/2023 22:00	10/5/2023 23:00	824.7
10/5/2023 23:00	10/6/2023 0:00	753.4
10/6/2023 0:00	10/6/2023 1:00	708.7
10/6/2023 1:00	10/6/2023 2:00	712.3
10/6/2023 2:00	10/6/2023 3:00	717.4
10/6/2023 3:00	10/6/2023 4:00	713.5
10/6/2023 4:00	10/6/2023 5:00	717.2
10/6/2023 5:00	10/6/2023 6:00	746.4
10/6/2023 6:00	10/6/2023 7:00	825.9
10/6/2023 7:00	10/6/2023 8:00	950.4
10/6/2023 8:00	10/6/2023 9:00	1000.0
10/6/2023 9:00	10/6/2023 10:00	1042.0
10/6/2023 10:00	10/6/2023 11:00	1047.8
10/6/2023 11:00	10/6/2023 12:00	1060.1
10/6/2023 12:00	10/6/2023 13:00	1074.7
10/6/2023 13:00	10/6/2023 14:00	1076.0
10/6/2023 14:00	10/6/2023 15:00	1076.2
10/6/2023 15:00	10/6/2023 16:00	1093.8
10/6/2023 16:00	10/6/2023 17:00	1108.3
10/6/2023 17:00	10/6/2023 18:00	1115.6
10/6/2023 18:00	10/6/2023 19:00	1082.8
10/6/2023 19:00	10/6/2023 20:00	1060.1
10/6/2023 20:00	10/6/2023 21:00	976.0
10/6/2023 21:00	10/6/2023 22:00	910.2
10/6/2023 22:00	10/6/2023 23:00	883.2
10/6/2023 23:00	10/7/2023 0:00	862.2
10/7/2023 0:00	10/7/2023 1:00	807.0
10/7/2023 1:00	10/7/2023 2:00	775.9
10/7/2023 2:00	10/7/2023 3:00	752.8
10/7/2023 3:00	10/7/2023 4:00	746.8
10/7/2023 4:00	10/7/2023 5:00	790.7
10/7/2023 5:00	10/7/2023 6:00	834.8
10/7/2023 6:00	10/7/2023 7:00	865.2
10/7/2023 7:00	10/7/2023 8:00	890.5
10/7/2023 8:00	10/7/2023 9:00	930.0
10/7/2023 9:00	10/7/2023 10:00	983.2
10/7/2023 10:00	10/7/2023 11:00	981.9
10/7/2023 11:00	10/7/2023 12:00	952.5
10/7/2023 12:00	10/7/2023 13:00	938.0
10/7/2023 13:00	10/7/2023 14:00	926.8
10/7/2023 14:00	10/7/2023 15:00	914.8
10/7/2023 15:00	10/7/2023 16:00	912.3
10/7/2023 16:00	10/7/2023 17:00	945.8
10/7/2023 17:00	10/7/2023 18:00	926.6
10/7/2023 18:00	10/7/2023 19:00	885.8
10/7/2023 19:00	10/7/2023 20:00	894.3
10/7/2023 20:00	10/7/2023 21:00	868.9
10/7/2023 21:00	10/7/2023 22:00	771.7
10/7/2023 22:00	10/7/2023 23:00	723.0
10/7/2023 23:00	10/8/2023 0:00	657.0
10/8/2023 0:00	10/8/2023 1:00	598.6
10/8/2023 1:00	10/8/2023 2:00	564.5
10/8/2023 2:00	10/8/2023 3:00	543.0
10/8/2023 3:00	10/8/2023 4:00	527.1
10/8/2023 4:00	10/8/2023 5:00	528.3
10/8/2023 5:00	10/8/2023 6:00	483.6
10/8/2023 6:00	10/8/2023 7:00	483.5

Start Time	End Time	ANL_MW
10/8/2023 7:00	10/8/2023 8:00	543.5
10/8/2023 8:00	10/8/2023 9:00	624.3
10/8/2023 9:00	10/8/2023 10:00	701.5
10/8/2023 10:00	10/8/2023 11:00	756.7
10/8/2023 11:00	10/8/2023 12:00	809.6
10/8/2023 12:00	10/8/2023 13:00	874.9
10/8/2023 13:00	10/8/2023 14:00	878.6
10/8/2023 14:00	10/8/2023 15:00	870.9
10/8/2023 15:00	10/8/2023 16:00	845.0
10/8/2023 16:00	10/8/2023 17:00	860.5
10/8/2023 17:00	10/8/2023 18:00	889.0
10/8/2023 18:00	10/8/2023 19:00	898.3
10/8/2023 19:00	10/8/2023 20:00	913.3
10/8/2023 20:00	10/8/2023 21:00	920.2
10/8/2023 21:00	10/8/2023 22:00	891.6
10/8/2023 22:00	10/8/2023 23:00	840.6
10/8/2023 23:00	10/9/2023 0:00	797.6
10/9/2023 0:00	10/9/2023 1:00	796.4
10/9/2023 1:00	10/9/2023 2:00	769.1
10/9/2023 2:00	10/9/2023 3:00	775.7
10/9/2023 3:00	10/9/2023 4:00	755.7
10/9/2023 4:00	10/9/2023 5:00	752.5
10/9/2023 5:00	10/9/2023 6:00	772.0
10/9/2023 6:00	10/9/2023 7:00	801.6
10/9/2023 7:00	10/9/2023 8:00	798.1
10/9/2023 8:00	10/9/2023 9:00	834.9
10/9/2023 9:00	10/9/2023 10:00	912.6
10/9/2023 10:00	10/9/2023 11:00	954.4
10/9/2023 11:00	10/9/2023 12:00	968.6
10/9/2023 12:00	10/9/2023 13:00	966.4
10/9/2023 13:00	10/9/2023 14:00	966.6
10/9/2023 14:00	10/9/2023 15:00	967.7
10/9/2023 15:00	10/9/2023 16:00	995.2
10/9/2023 16:00	10/9/2023 17:00	1040.6
10/9/2023 17:00	10/9/2023 18:00	1042.0
10/9/2023 18:00	10/9/2023 19:00	1014.6
10/9/2023 19:00	10/9/2023 20:00	954.2
10/9/2023 20:00	10/9/2023 21:00	895.7
10/9/2023 21:00	10/9/2023 22:00	837.5
10/9/2023 22:00	10/9/2023 23:00	721.5
10/9/2023 23:00	10/10/2023 0:00	642.7
10/10/2023 0:00	10/10/2023 1:00	609.0
10/10/2023 1:00	10/10/2023 2:00	601.4
10/10/2023 2:00	10/10/2023 3:00	604.2
10/10/2023 3:00	10/10/2023 4:00	615.0
10/10/2023 4:00	10/10/2023 5:00	629.5
10/10/2023 5:00	10/10/2023 6:00	680.5
10/10/2023 6:00	10/10/2023 7:00	817.6
10/10/2023 7:00	10/10/2023 8:00	947.9
10/10/2023 8:00	10/10/2023 9:00	1007.0
10/10/2023 9:00	10/10/2023 10:00	1022.3
10/10/2023 10:00	10/10/2023 11:00	1017.6
10/10/2023 11:00	10/10/2023 12:00	1004.4
10/10/2023 12:00	10/10/2023 13:00	975.2
10/10/2023 13:00	10/10/2023 14:00	936.2
10/10/2023 14:00	10/10/2023 15:00	918.1
10/10/2023 15:00	10/10/2023 16:00	929.6
10/10/2023 16:00	10/10/2023 17:00	978.3
10/10/2023 17:00	10/10/2023 18:00	1037.8
10/10/2023 18:00	10/10/2023 19:00	1045.3
10/10/2023 19:00	10/10/2023 20:00	1009.5
10/10/2023 20:00	10/10/2023 21:00	957.8
10/10/2023 21:00	10/10/2023 22:00	892.2
10/10/2023 22:00	10/10/2023 23:00	805.7
10/10/2023 23:00	10/11/2023 0:00	761.4
10/11/2023 0:00	10/11/2023 1:00	713.7
10/11/2023 1:00	10/11/2023 2:00	692.7
10/11/2023 2:00	10/11/2023 3:00	686.1
10/11/2023 3:00	10/11/2023 4:00	672.6
10/11/2023 4:00	10/11/2023 5:00	710.0

Start Time	End Time	ANL_MW
10/11/2023 5:00	10/11/2023 6:00	780.0
10/11/2023 6:00	10/11/2023 7:00	917.8
10/11/2023 7:00	10/11/2023 8:00	1025.6
10/11/2023 8:00	10/11/2023 9:00	1052.4
10/11/2023 9:00	10/11/2023 10:00	1036.4
10/11/2023 10:00	10/11/2023 11:00	1035.4
10/11/2023 11:00	10/11/2023 12:00	1024.5
10/11/2023 12:00	10/11/2023 13:00	1026.0
10/11/2023 13:00	10/11/2023 14:00	1030.2
10/11/2023 14:00	10/11/2023 15:00	1028.5
10/11/2023 15:00	10/11/2023 16:00	1035.3
10/11/2023 16:00	10/11/2023 17:00	1067.7
10/11/2023 17:00	10/11/2023 18:00	1091.5
10/11/2023 18:00	10/11/2023 19:00	1094.1
10/11/2023 19:00	10/11/2023 20:00	1127.1
10/11/2023 20:00	10/11/2023 21:00	1079.5
10/11/2023 21:00	10/11/2023 22:00	1007.0
10/11/2023 22:00	10/11/2023 23:00	926.1
10/11/2023 23:00	10/12/2023 0:00	859.9
10/12/2023 0:00	10/12/2023 1:00	797.7
10/12/2023 1:00	10/12/2023 2:00	769.6
10/12/2023 2:00	10/12/2023 3:00	756.4
10/12/2023 3:00	10/12/2023 4:00	754.9
10/12/2023 4:00	10/12/2023 5:00	766.3
10/12/2023 5:00	10/12/2023 6:00	813.3
10/12/2023 6:00	10/12/2023 7:00	934.8
10/12/2023 7:00	10/12/2023 8:00	1051.7
10/12/2023 8:00	10/12/2023 9:00	1085.4
10/12/2023 9:00	10/12/2023 10:00	1094.3
10/12/2023 10:00	10/12/2023 11:00	1086.3
10/12/2023 11:00	10/12/2023 12:00	1081.3
10/12/2023 12:00	10/12/2023 13:00	1065.3
10/12/2023 13:00	10/12/2023 14:00	1064.3
10/12/2023 14:00	10/12/2023 15:00	1056.2
10/12/2023 15:00	10/12/2023 16:00	1063.7
10/12/2023 16:00	10/12/2023 17:00	1103.6
10/12/2023 17:00	10/12/2023 18:00	1136.3
10/12/2023 18:00	10/12/2023 19:00	1145.4
10/12/2023 19:00	10/12/2023 20:00	1184.2
10/12/2023 20:00	10/12/2023 21:00	1147.1
10/12/2023 21:00	10/12/2023 22:00	1070.4
10/12/2023 22:00	10/12/2023 23:00	994.7
10/12/2023 23:00	10/13/2023 0:00	938.4
10/13/2023 0:00	10/13/2023 1:00	889.7
10/13/2023 1:00	10/13/2023 2:00	896.6
10/13/2023 2:00	10/13/2023 3:00	891.5
10/13/2023 3:00	10/13/2023 4:00	887.3
10/13/2023 4:00	10/13/2023 5:00	888.4
10/13/2023 5:00	10/13/2023 6:00	929.3
10/13/2023 6:00	10/13/2023 7:00	1034.6
10/13/2023 7:00	10/13/2023 8:00	1087.3
10/13/2023 8:00	10/13/2023 9:00	1150.8
10/13/2023 9:00	10/13/2023 10:00	1174.8
10/13/2023 10:00	10/13/2023 11:00	1158.6
10/13/2023 11:00	10/13/2023 12:00	1097.9
10/13/2023 12:00	10/13/2023 13:00	1096.2
10/13/2023 13:00	10/13/2023 14:00	1104.2
10/13/2023 14:00	10/13/2023 15:00	1094.6
10/13/2023 15:00	10/13/2023 16:00	1093.3
10/13/2023 16:00	10/13/2023 17:00	1118.8
10/13/2023 17:00	10/13/2023 18:00	1143.0
10/13/2023 18:00	10/13/2023 19:00	1150.1
10/13/2023 19:00	10/13/2023 20:00	1155.2
10/13/2023 20:00	10/13/2023 21:00	1084.1
10/13/2023 21:00	10/13/2023 22:00	1031.6
10/13/2023 22:00	10/13/2023 23:00	955.6
10/13/2023 23:00	10/14/2023 0:00	883.6
10/14/2023 0:00	10/14/2023 1:00	818.1
10/14/2023 1:00	10/14/2023 2:00	761.8
10/14/2023 2:00	10/14/2023 3:00	698.2

Start Time	End Time	ANL_MW
10/14/2023 3:00	10/14/2023 4:00	675.7
10/14/2023 4:00	10/14/2023 5:00	643.3
10/14/2023 5:00	10/14/2023 6:00	661.7
10/14/2023 6:00	10/14/2023 7:00	663.2
10/14/2023 7:00	10/14/2023 8:00	730.0
10/14/2023 8:00	10/14/2023 9:00	815.7
10/14/2023 9:00	10/14/2023 10:00	879.3
10/14/2023 10:00	10/14/2023 11:00	858.2
10/14/2023 11:00	10/14/2023 12:00	842.4
10/14/2023 12:00	10/14/2023 13:00	828.6
10/14/2023 13:00	10/14/2023 14:00	794.9
10/14/2023 14:00	10/14/2023 15:00	800.3
10/14/2023 15:00	10/14/2023 16:00	812.5
10/14/2023 16:00	10/14/2023 17:00	862.9
10/14/2023 17:00	10/14/2023 18:00	915.4
10/14/2023 18:00	10/14/2023 19:00	926.4
10/14/2023 19:00	10/14/2023 20:00	922.4
10/14/2023 20:00	10/14/2023 21:00	873.4
10/14/2023 21:00	10/14/2023 22:00	845.6
10/14/2023 22:00	10/14/2023 23:00	785.3
10/14/2023 23:00	10/15/2023 0:00	732.7
10/15/2023 0:00	10/15/2023 1:00	685.9
10/15/2023 1:00	10/15/2023 2:00	679.2
10/15/2023 2:00	10/15/2023 3:00	655.8
10/15/2023 3:00	10/15/2023 4:00	659.5
10/15/2023 4:00	10/15/2023 5:00	675.5
10/15/2023 5:00	10/15/2023 6:00	750.0
10/15/2023 6:00	10/15/2023 7:00	817.7
10/15/2023 7:00	10/15/2023 8:00	882.3
10/15/2023 8:00	10/15/2023 9:00	1005.5
10/15/2023 9:00	10/15/2023 10:00	1078.6
10/15/2023 10:00	10/15/2023 11:00	1087.5
10/15/2023 11:00	10/15/2023 12:00	1037.9
10/15/2023 12:00	10/15/2023 13:00	1004.5
10/15/2023 13:00	10/15/2023 14:00	1039.0
10/15/2023 14:00	10/15/2023 15:00	1065.0
10/15/2023 15:00	10/15/2023 16:00	1083.3
10/15/2023 16:00	10/15/2023 17:00	1140.3
10/15/2023 17:00	10/15/2023 18:00	1191.1
10/15/2023 18:00	10/15/2023 19:00	1190.0
10/15/2023 19:00	10/15/2023 20:00	1144.4
10/15/2023 20:00	10/15/2023 21:00	1037.8
10/15/2023 21:00	10/15/2023 22:00	940.2
10/15/2023 22:00	10/15/2023 23:00	864.9
10/15/2023 23:00	10/16/2023 0:00	776.0
10/16/2023 0:00	10/16/2023 1:00	731.5
10/16/2023 1:00	10/16/2023 2:00	686.0
10/16/2023 2:00	10/16/2023 3:00	688.3
10/16/2023 3:00	10/16/2023 4:00	687.0
10/16/2023 4:00	10/16/2023 5:00	696.3
10/16/2023 5:00	10/16/2023 6:00	709.6
10/16/2023 6:00	10/16/2023 7:00	838.6
10/16/2023 7:00	10/16/2023 8:00	975.4
10/16/2023 8:00	10/16/2023 9:00	1025.2
10/16/2023 9:00	10/16/2023 10:00	1058.3
10/16/2023 10:00	10/16/2023 11:00	1080.0
10/16/2023 11:00	10/16/2023 12:00	1091.4
10/16/2023 12:00	10/16/2023 13:00	1114.6
10/16/2023 13:00	10/16/2023 14:00	1113.6
10/16/2023 14:00	10/16/2023 15:00	1048.9
10/16/2023 15:00	10/16/2023 16:00	1029.2
10/16/2023 16:00	10/16/2023 17:00	1078.4
10/16/2023 17:00	10/16/2023 18:00	1096.8
10/16/2023 18:00	10/16/2023 19:00	1107.9
10/16/2023 19:00	10/16/2023 20:00	1104.1
10/16/2023 20:00	10/16/2023 21:00	1124.1
10/16/2023 21:00	10/16/2023 22:00	1067.0
10/16/2023 22:00	10/16/2023 23:00	998.2
10/16/2023 23:00	10/17/2023 0:00	944.5
10/17/2023 0:00	10/17/2023 1:00	907.6

Start Time	End Time	ANL_MW
10/17/2023 1:00	10/17/2023 2:00	883.2
10/17/2023 2:00	10/17/2023 3:00	890.7
10/17/2023 3:00	10/17/2023 4:00	885.8
10/17/2023 4:00	10/17/2023 5:00	883.9
10/17/2023 5:00	10/17/2023 6:00	924.2
10/17/2023 6:00	10/17/2023 7:00	1004.6
10/17/2023 7:00	10/17/2023 8:00	1046.0
10/17/2023 8:00	10/17/2023 9:00	1058.5
10/17/2023 9:00	10/17/2023 10:00	1059.4
10/17/2023 10:00	10/17/2023 11:00	1055.3
10/17/2023 11:00	10/17/2023 12:00	1053.9
10/17/2023 12:00	10/17/2023 13:00	1044.6
10/17/2023 13:00	10/17/2023 14:00	1036.7
10/17/2023 14:00	10/17/2023 15:00	1023.0
10/17/2023 15:00	10/17/2023 16:00	1028.6
10/17/2023 16:00	10/17/2023 17:00	1079.2
10/17/2023 17:00	10/17/2023 18:00	1112.8
10/17/2023 18:00	10/17/2023 19:00	1143.1
10/17/2023 19:00	10/17/2023 20:00	1153.6
10/17/2023 20:00	10/17/2023 21:00	1111.6
10/17/2023 21:00	10/17/2023 22:00	1042.7
10/17/2023 22:00	10/17/2023 23:00	973.6
10/17/2023 23:00	10/18/2023 0:00	928.7
10/18/2023 0:00	10/18/2023 1:00	895.2
10/18/2023 1:00	10/18/2023 2:00	878.3
10/18/2023 2:00	10/18/2023 3:00	869.0
10/18/2023 3:00	10/18/2023 4:00	870.0
10/18/2023 4:00	10/18/2023 5:00	886.1
10/18/2023 5:00	10/18/2023 6:00	943.8
10/18/2023 6:00	10/18/2023 7:00	1073.0
10/18/2023 7:00	10/18/2023 8:00	1204.4
10/18/2023 8:00	10/18/2023 9:00	1211.3
10/18/2023 9:00	10/18/2023 10:00	1178.2
10/18/2023 10:00	10/18/2023 11:00	1161.3
10/18/2023 11:00	10/18/2023 12:00	1123.3
10/18/2023 12:00	10/18/2023 13:00	1103.7
10/18/2023 13:00	10/18/2023 14:00	1084.1
10/18/2023 14:00	10/18/2023 15:00	1077.1
10/18/2023 15:00	10/18/2023 16:00	1077.3
10/18/2023 16:00	10/18/2023 17:00	1117.8
10/18/2023 17:00	10/18/2023 18:00	1167.7
10/18/2023 18:00	10/18/2023 19:00	1172.1
10/18/2023 19:00	10/18/2023 20:00	1171.4
10/18/2023 20:00	10/18/2023 21:00	1124.0
10/18/2023 21:00	10/18/2023 22:00	1089.3
10/18/2023 22:00	10/18/2023 23:00	1031.8
10/18/2023 23:00	10/19/2023 0:00	986.2
10/19/2023 0:00	10/19/2023 1:00	939.4
10/19/2023 1:00	10/19/2023 2:00	887.6
10/19/2023 2:00	10/19/2023 3:00	882.8
10/19/2023 3:00	10/19/2023 4:00	892.5
10/19/2023 4:00	10/19/2023 5:00	909.7
10/19/2023 5:00	10/19/2023 6:00	956.1
10/19/2023 6:00	10/19/2023 7:00	1067.7
10/19/2023 7:00	10/19/2023 8:00	1173.9
10/19/2023 8:00	10/19/2023 9:00	1219.0
10/19/2023 9:00	10/19/2023 10:00	1208.2
10/19/2023 10:00	10/19/2023 11:00	1197.5
10/19/2023 11:00	10/19/2023 12:00	1165.4
10/19/2023 12:00	10/19/2023 13:00	1134.2
10/19/2023 13:00	10/19/2023 14:00	1084.6
10/19/2023 14:00	10/19/2023 15:00	1063.6
10/19/2023 15:00	10/19/2023 16:00	1068.1
10/19/2023 16:00	10/19/2023 17:00	1111.4
10/19/2023 17:00	10/19/2023 18:00	1122.8
10/19/2023 18:00	10/19/2023 19:00	1116.7
10/19/2023 19:00	10/19/2023 20:00	1080.4
10/19/2023 20:00	10/19/2023 21:00	1034.1
10/19/2023 21:00	10/19/2023 22:00	949.0
10/19/2023 22:00	10/19/2023 23:00	899.3

Start Time	End Time	ANL_MW
10/19/2023 23:00	10/20/2023 0:00	819.2
10/20/2023 0:00	10/20/2023 1:00	787.4
10/20/2023 1:00	10/20/2023 2:00	778.6
10/20/2023 2:00	10/20/2023 3:00	797.3
10/20/2023 3:00	10/20/2023 4:00	799.0
10/20/2023 4:00	10/20/2023 5:00	823.4
10/20/2023 5:00	10/20/2023 6:00	900.7
10/20/2023 6:00	10/20/2023 7:00	1019.9
10/20/2023 7:00	10/20/2023 8:00	1047.4
10/20/2023 8:00	10/20/2023 9:00	1062.1
10/20/2023 9:00	10/20/2023 10:00	1089.0
10/20/2023 10:00	10/20/2023 11:00	1038.9
10/20/2023 11:00	10/20/2023 12:00	954.6
10/20/2023 12:00	10/20/2023 13:00	847.0
10/20/2023 13:00	10/20/2023 14:00	818.7
10/20/2023 14:00	10/20/2023 15:00	834.7
10/20/2023 15:00	10/20/2023 16:00	875.1
10/20/2023 16:00	10/20/2023 17:00	939.2
10/20/2023 17:00	10/20/2023 18:00	995.6
10/20/2023 18:00	10/20/2023 19:00	999.3
10/20/2023 19:00	10/20/2023 20:00	989.7
10/20/2023 20:00	10/20/2023 21:00	988.3
10/20/2023 21:00	10/20/2023 22:00	972.9
10/20/2023 22:00	10/20/2023 23:00	921.7
10/20/2023 23:00	10/21/2023 0:00	864.5
10/21/2023 0:00	10/21/2023 1:00	842.4
10/21/2023 1:00	10/21/2023 2:00	835.9
10/21/2023 2:00	10/21/2023 3:00	824.1
10/21/2023 3:00	10/21/2023 4:00	827.1
10/21/2023 4:00	10/21/2023 5:00	826.4
10/21/2023 5:00	10/21/2023 6:00	841.7
10/21/2023 6:00	10/21/2023 7:00	854.9
10/21/2023 7:00	10/21/2023 8:00	871.6
10/21/2023 8:00	10/21/2023 9:00	938.8
10/21/2023 9:00	10/21/2023 10:00	978.0
10/21/2023 10:00	10/21/2023 11:00	943.5
10/21/2023 11:00	10/21/2023 12:00	1017.1
10/21/2023 12:00	10/21/2023 13:00	1044.9
10/21/2023 13:00	10/21/2023 14:00	1032.3
10/21/2023 14:00	10/21/2023 15:00	1036.1
10/21/2023 15:00	10/21/2023 16:00	1054.2
10/21/2023 16:00	10/21/2023 17:00	1063.9
10/21/2023 17:00	10/21/2023 18:00	1103.2
10/21/2023 18:00	10/21/2023 19:00	1087.0
10/21/2023 19:00	10/21/2023 20:00	1034.0
10/21/2023 20:00	10/21/2023 21:00	993.7
10/21/2023 21:00	10/21/2023 22:00	925.5
10/21/2023 22:00	10/21/2023 23:00	845.2
10/21/2023 23:00	10/22/2023 0:00	742.7
10/22/2023 0:00	10/22/2023 1:00	786.4
10/22/2023 1:00	10/22/2023 2:00	773.9
10/22/2023 2:00	10/22/2023 3:00	777.8
10/22/2023 3:00	10/22/2023 4:00	742.1
10/22/2023 4:00	10/22/2023 5:00	686.8
10/22/2023 5:00	10/22/2023 6:00	669.9
10/22/2023 6:00	10/22/2023 7:00	694.8
10/22/2023 7:00	10/22/2023 8:00	737.2
10/22/2023 8:00	10/22/2023 9:00	764.7
10/22/2023 9:00	10/22/2023 10:00	806.8
10/22/2023 10:00	10/22/2023 11:00	865.5
10/22/2023 11:00	10/22/2023 12:00	841.7
10/22/2023 12:00	10/22/2023 13:00	838.4
10/22/2023 13:00	10/22/2023 14:00	807.4
10/22/2023 14:00	10/22/2023 15:00	819.6
10/22/2023 15:00	10/22/2023 16:00	835.9
10/22/2023 16:00	10/22/2023 17:00	883.1
10/22/2023 17:00	10/22/2023 18:00	948.3
10/22/2023 18:00	10/22/2023 19:00	985.9
10/22/2023 19:00	10/22/2023 20:00	1021.1
10/22/2023 20:00	10/22/2023 21:00	1012.9

Start Time	End Time	ANL_MW
10/22/2023 21:00	10/22/2023 22:00	978.9
10/22/2023 22:00	10/22/2023 23:00	892.4
10/22/2023 23:00	10/23/2023 0:00	862.2
10/23/2023 0:00	10/23/2023 1:00	814.8
10/23/2023 1:00	10/23/2023 2:00	780.9
10/23/2023 2:00	10/23/2023 3:00	784.4
10/23/2023 3:00	10/23/2023 4:00	800.5
10/23/2023 4:00	10/23/2023 5:00	818.1
10/23/2023 5:00	10/23/2023 6:00	828.5
10/23/2023 6:00	10/23/2023 7:00	855.5
10/23/2023 7:00	10/23/2023 8:00	969.0
10/23/2023 8:00	10/23/2023 9:00	1006.2
10/23/2023 9:00	10/23/2023 10:00	987.1
10/23/2023 10:00	10/23/2023 11:00	972.7
10/23/2023 11:00	10/23/2023 12:00	951.1
10/23/2023 12:00	10/23/2023 13:00	932.1
10/23/2023 13:00	10/23/2023 14:00	903.4
10/23/2023 14:00	10/23/2023 15:00	861.8
10/23/2023 15:00	10/23/2023 16:00	886.9
10/23/2023 16:00	10/23/2023 17:00	954.2
10/23/2023 17:00	10/23/2023 18:00	1013.4
10/23/2023 18:00	10/23/2023 19:00	1046.1
10/23/2023 19:00	10/23/2023 20:00	1070.8
10/23/2023 20:00	10/23/2023 21:00	1050.3
10/23/2023 21:00	10/23/2023 22:00	1025.8
10/23/2023 22:00	10/23/2023 23:00	975.9
10/23/2023 23:00	10/24/2023 0:00	925.1
10/24/2023 0:00	10/24/2023 1:00	869.6
10/24/2023 1:00	10/24/2023 2:00	878.9
10/24/2023 2:00	10/24/2023 3:00	874.3
10/24/2023 3:00	10/24/2023 4:00	871.8
10/24/2023 4:00	10/24/2023 5:00	898.2
10/24/2023 5:00	10/24/2023 6:00	960.5
10/24/2023 6:00	10/24/2023 7:00	1117.7
10/24/2023 7:00	10/24/2023 8:00	1280.9
10/24/2023 8:00	10/24/2023 9:00	1306.9
10/24/2023 9:00	10/24/2023 10:00	1260.5
10/24/2023 10:00	10/24/2023 11:00	1202.6
10/24/2023 11:00	10/24/2023 12:00	1150.2
10/24/2023 12:00	10/24/2023 13:00	1110.5
10/24/2023 13:00	10/24/2023 14:00	1071.3
10/24/2023 14:00	10/24/2023 15:00	1031.9
10/24/2023 15:00	10/24/2023 16:00	1017.0
10/24/2023 16:00	10/24/2023 17:00	1029.4
10/24/2023 17:00	10/24/2023 18:00	1062.7
10/24/2023 18:00	10/24/2023 19:00	1092.2
10/24/2023 19:00	10/24/2023 20:00	1076.4
10/24/2023 20:00	10/24/2023 21:00	1022.9
10/24/2023 21:00	10/24/2023 22:00	936.6
10/24/2023 22:00	10/24/2023 23:00	805.5
10/24/2023 23:00	10/25/2023 0:00	733.0
10/25/2023 0:00	10/25/2023 1:00	740.5
10/25/2023 1:00	10/25/2023 2:00	708.6
10/25/2023 2:00	10/25/2023 3:00	690.7
10/25/2023 3:00	10/25/2023 4:00	677.7
10/25/2023 4:00	10/25/2023 5:00	679.1
10/25/2023 5:00	10/25/2023 6:00	714.2
10/25/2023 6:00	10/25/2023 7:00	838.8
10/25/2023 7:00	10/25/2023 8:00	927.9
10/25/2023 8:00	10/25/2023 9:00	942.0
10/25/2023 9:00	10/25/2023 10:00	924.3
10/25/2023 10:00	10/25/2023 11:00	919.7
10/25/2023 11:00	10/25/2023 12:00	906.9
10/25/2023 12:00	10/25/2023 13:00	883.2
10/25/2023 13:00	10/25/2023 14:00	828.3
10/25/2023 14:00	10/25/2023 15:00	804.0
10/25/2023 15:00	10/25/2023 16:00	830.7
10/25/2023 16:00	10/25/2023 17:00	905.0
10/25/2023 17:00	10/25/2023 18:00	969.3
10/25/2023 18:00	10/25/2023 19:00	972.2

Start Time	End Time	ANL_MW
10/25/2023 19:00	10/25/2023 20:00	921.9
10/25/2023 20:00	10/25/2023 21:00	886.3
10/25/2023 21:00	10/25/2023 22:00	830.2
10/25/2023 22:00	10/25/2023 23:00	764.3
10/25/2023 23:00	10/26/2023 0:00	725.9
10/26/2023 0:00	10/26/2023 1:00	667.3
10/26/2023 1:00	10/26/2023 2:00	648.5
10/26/2023 2:00	10/26/2023 3:00	674.1
10/26/2023 3:00	10/26/2023 4:00	710.9
10/26/2023 4:00	10/26/2023 5:00	749.8
10/26/2023 5:00	10/26/2023 6:00	829.1
10/26/2023 6:00	10/26/2023 7:00	953.1
10/26/2023 7:00	10/26/2023 8:00	1076.1
10/26/2023 8:00	10/26/2023 9:00	1132.5
10/26/2023 9:00	10/26/2023 10:00	1112.9
10/26/2023 10:00	10/26/2023 11:00	1151.1
10/26/2023 11:00	10/26/2023 12:00	1143.8
10/26/2023 12:00	10/26/2023 13:00	1140.6
10/26/2023 13:00	10/26/2023 14:00	1140.9
10/26/2023 14:00	10/26/2023 15:00	1129.6
10/26/2023 15:00	10/26/2023 16:00	1143.4
10/26/2023 16:00	10/26/2023 17:00	1170.9
10/26/2023 17:00	10/26/2023 18:00	1200.5
10/26/2023 18:00	10/26/2023 19:00	1216.9
10/26/2023 19:00	10/26/2023 20:00	1225.6
10/26/2023 20:00	10/26/2023 21:00	1189.5
10/26/2023 21:00	10/26/2023 22:00	1129.5
10/26/2023 22:00	10/26/2023 23:00	1049.3
10/26/2023 23:00	10/27/2023 0:00	967.2
10/27/2023 0:00	10/27/2023 1:00	901.1
10/27/2023 1:00	10/27/2023 2:00	886.5
10/27/2023 2:00	10/27/2023 3:00	843.3
10/27/2023 3:00	10/27/2023 4:00	839.7
10/27/2023 4:00	10/27/2023 5:00	835.0
10/27/2023 5:00	10/27/2023 6:00	859.8
10/27/2023 6:00	10/27/2023 7:00	871.7
10/27/2023 7:00	10/27/2023 8:00	976.4
10/27/2023 8:00	10/27/2023 9:00	1008.7
10/27/2023 9:00	10/27/2023 10:00	1029.2
10/27/2023 10:00	10/27/2023 11:00	1034.5
10/27/2023 11:00	10/27/2023 12:00	1064.5
10/27/2023 12:00	10/27/2023 13:00	1052.1
10/27/2023 13:00	10/27/2023 14:00	1032.2
10/27/2023 14:00	10/27/2023 15:00	995.0
10/27/2023 15:00	10/27/2023 16:00	1002.7
10/27/2023 16:00	10/27/2023 17:00	1029.4
10/27/2023 17:00	10/27/2023 18:00	1059.0
10/27/2023 18:00	10/27/2023 19:00	1067.0
10/27/2023 19:00	10/27/2023 20:00	1038.5
10/27/2023 20:00	10/27/2023 21:00	1002.0
10/27/2023 21:00	10/27/2023 22:00	957.5
10/27/2023 22:00	10/27/2023 23:00	885.9
10/27/2023 23:00	10/28/2023 0:00	817.1
10/28/2023 0:00	10/28/2023 1:00	738.3
10/28/2023 1:00	10/28/2023 2:00	724.8
10/28/2023 2:00	10/28/2023 3:00	733.7
10/28/2023 3:00	10/28/2023 4:00	703.3
10/28/2023 4:00	10/28/2023 5:00	714.1
10/28/2023 5:00	10/28/2023 6:00	731.4
10/28/2023 6:00	10/28/2023 7:00	776.5
10/28/2023 7:00	10/28/2023 8:00	882.1
10/28/2023 8:00	10/28/2023 9:00	872.1
10/28/2023 9:00	10/28/2023 10:00	931.3
10/28/2023 10:00	10/28/2023 11:00	950.1
10/28/2023 11:00	10/28/2023 12:00	965.4
10/28/2023 12:00	10/28/2023 13:00	945.1
10/28/2023 13:00	10/28/2023 14:00	877.6
10/28/2023 14:00	10/28/2023 15:00	817.3
10/28/2023 15:00	10/28/2023 16:00	796.9
10/28/2023 16:00	10/28/2023 17:00	922.9

Start Time	End Time	ANL_MW
10/28/2023 17:00	10/28/2023 18:00	995.7
10/28/2023 18:00	10/28/2023 19:00	946.5
10/28/2023 19:00	10/28/2023 20:00	904.5
10/28/2023 20:00	10/28/2023 21:00	793.5
10/28/2023 21:00	10/28/2023 22:00	716.1
10/28/2023 22:00	10/28/2023 23:00	681.6
10/28/2023 23:00	10/29/2023 0:00	582.9
10/29/2023 0:00	10/29/2023 1:00	545.2
10/29/2023 1:00	10/29/2023 2:00	526.1
10/29/2023 2:00	10/29/2023 3:00	527.0
10/29/2023 3:00	10/29/2023 4:00	542.9
10/29/2023 4:00	10/29/2023 5:00	533.5
10/29/2023 5:00	10/29/2023 6:00	572.2
10/29/2023 6:00	10/29/2023 7:00	641.1
10/29/2023 7:00	10/29/2023 8:00	707.8
10/29/2023 8:00	10/29/2023 9:00	821.9
10/29/2023 9:00	10/29/2023 10:00	932.0
10/29/2023 10:00	10/29/2023 11:00	948.9
10/29/2023 11:00	10/29/2023 12:00	995.7
10/29/2023 12:00	10/29/2023 13:00	1035.7
10/29/2023 13:00	10/29/2023 14:00	1018.2
10/29/2023 14:00	10/29/2023 15:00	1008.0
10/29/2023 15:00	10/29/2023 16:00	1040.4
10/29/2023 16:00	10/29/2023 17:00	1128.8
10/29/2023 17:00	10/29/2023 18:00	1210.3
10/29/2023 18:00	10/29/2023 19:00	1210.7
10/29/2023 19:00	10/29/2023 20:00	1243.8
10/29/2023 20:00	10/29/2023 21:00	1199.8
10/29/2023 21:00	10/29/2023 22:00	1137.5
10/29/2023 22:00	10/29/2023 23:00	1083.6
10/29/2023 23:00	10/30/2023 0:00	1011.9
10/30/2023 0:00	10/30/2023 1:00	983.0
10/30/2023 1:00	10/30/2023 2:00	974.8
10/30/2023 2:00	10/30/2023 3:00	981.9
10/30/2023 3:00	10/30/2023 4:00	1016.0
10/30/2023 4:00	10/30/2023 5:00	1047.6
10/30/2023 5:00	10/30/2023 6:00	1094.1
10/30/2023 6:00	10/30/2023 7:00	1145.6
10/30/2023 7:00	10/30/2023 8:00	1262.2
10/30/2023 8:00	10/30/2023 9:00	1302.6
10/30/2023 9:00	10/30/2023 10:00	1326.7
10/30/2023 10:00	10/30/2023 11:00	1338.1
10/30/2023 11:00	10/30/2023 12:00	1352.3
10/30/2023 12:00	10/30/2023 13:00	1359.0
10/30/2023 13:00	10/30/2023 14:00	1345.2
10/30/2023 14:00	10/30/2023 15:00	1335.6
10/30/2023 15:00	10/30/2023 16:00	1343.1
10/30/2023 16:00	10/30/2023 17:00	1377.7
10/30/2023 17:00	10/30/2023 18:00	1400.2
10/30/2023 18:00	10/30/2023 19:00	1384.0
10/30/2023 19:00	10/30/2023 20:00	1362.3
10/30/2023 20:00	10/30/2023 21:00	1310.9
10/30/2023 21:00	10/30/2023 22:00	1253.6
10/30/2023 22:00	10/30/2023 23:00	1168.6
10/30/2023 23:00	10/31/2023 0:00	1114.4
10/31/2023 0:00	10/31/2023 1:00	1079.6
10/31/2023 1:00	10/31/2023 2:00	1052.6
10/31/2023 2:00	10/31/2023 3:00	1013.6
10/31/2023 3:00	10/31/2023 4:00	967.4
10/31/2023 4:00	10/31/2023 5:00	1002.2
10/31/2023 5:00	10/31/2023 6:00	1005.9
10/31/2023 6:00	10/31/2023 7:00	1078.0
10/31/2023 7:00	10/31/2023 8:00	1162.1
10/31/2023 8:00	10/31/2023 9:00	1209.1
10/31/2023 9:00	10/31/2023 10:00	1195.8
10/31/2023 10:00	10/31/2023 11:00	1182.9
10/31/2023 11:00	10/31/2023 12:00	1119.6
10/31/2023 12:00	10/31/2023 13:00	1084.5
10/31/2023 13:00	10/31/2023 14:00	1060.8
10/31/2023 14:00	10/31/2023 15:00	1077.0

Start Time	End Time	ANL_MW
10/31/2023 15:00	10/31/2023 16:00	1127.6
10/31/2023 16:00	10/31/2023 17:00	1207.8
10/31/2023 17:00	10/31/2023 18:00	1238.0
10/31/2023 18:00	10/31/2023 19:00	1248.4
10/31/2023 19:00	10/31/2023 20:00	1264.4
10/31/2023 20:00	10/31/2023 21:00	1286.2
10/31/2023 21:00	10/31/2023 22:00	1284.3
10/31/2023 22:00	10/31/2023 23:00	1202.5
10/31/2023 23:00	11/1/2023 0:00	1174.6
11/1/2023 0:00	11/1/2023 1:00	1155.9
11/1/2023 1:00	11/1/2023 2:00	1149.3
11/1/2023 2:00	11/1/2023 3:00	1123.7
11/1/2023 3:00	11/1/2023 4:00	1117.7
11/1/2023 4:00	11/1/2023 5:00	1142.2
11/1/2023 5:00	11/1/2023 6:00	1204.8
11/1/2023 6:00	11/1/2023 7:00	1302.9
11/1/2023 7:00	11/1/2023 8:00	1398.8
11/1/2023 8:00	11/1/2023 9:00	1425.0
11/1/2023 9:00	11/1/2023 10:00	1426.9
11/1/2023 10:00	11/1/2023 11:00	1428.6
11/1/2023 11:00	11/1/2023 12:00	1416.1
11/1/2023 12:00	11/1/2023 13:00	1406.7
11/1/2023 13:00	11/1/2023 14:00	1383.8
11/1/2023 14:00	11/1/2023 15:00	1374.5
11/1/2023 15:00	11/1/2023 16:00	1367.8
11/1/2023 16:00	11/1/2023 17:00	1391.4
11/1/2023 17:00	11/1/2023 18:00	1408.8
11/1/2023 18:00	11/1/2023 19:00	1366.7
11/1/2023 19:00	11/1/2023 20:00	1359.4
11/1/2023 20:00	11/1/2023 21:00	1312.9
11/1/2023 21:00	11/1/2023 22:00	1194.5
11/1/2023 22:00	11/1/2023 23:00	1083.1
11/1/2023 23:00	11/2/2023 0:00	992.1
11/2/2023 0:00	11/2/2023 1:00	934.1
11/2/2023 1:00	11/2/2023 2:00	924.6
11/2/2023 2:00	11/2/2023 3:00	898.5
11/2/2023 3:00	11/2/2023 4:00	879.7
11/2/2023 4:00	11/2/2023 5:00	891.9
11/2/2023 5:00	11/2/2023 6:00	961.3
11/2/2023 6:00	11/2/2023 7:00	1134.2
11/2/2023 7:00	11/2/2023 8:00	1258.7
11/2/2023 8:00	11/2/2023 9:00	1305.9
11/2/2023 9:00	11/2/2023 10:00	1293.0
11/2/2023 10:00	11/2/2023 11:00	1243.0
11/2/2023 11:00	11/2/2023 12:00	1201.8
11/2/2023 12:00	11/2/2023 13:00	1203.7
11/2/2023 13:00	11/2/2023 14:00	1184.1
11/2/2023 14:00	11/2/2023 15:00	1183.5
11/2/2023 15:00	11/2/2023 16:00	1210.8
11/2/2023 16:00	11/2/2023 17:00	1267.3
11/2/2023 17:00	11/2/2023 18:00	1362.6
11/2/2023 18:00	11/2/2023 19:00	1421.4
11/2/2023 19:00	11/2/2023 20:00	1398.3
11/2/2023 20:00	11/2/2023 21:00	1326.6
11/2/2023 21:00	11/2/2023 22:00	1287.6
11/2/2023 22:00	11/2/2023 23:00	1185.2
11/2/2023 23:00	11/3/2023 0:00	1131.5
11/3/2023 0:00	11/3/2023 1:00	1131.2
11/3/2023 1:00	11/3/2023 2:00	1134.6
11/3/2023 2:00	11/3/2023 3:00	1138.9
11/3/2023 3:00	11/3/2023 4:00	1168.4
11/3/2023 4:00	11/3/2023 5:00	1219.6
11/3/2023 5:00	11/3/2023 6:00	1227.6
11/3/2023 6:00	11/3/2023 7:00	1320.5
11/3/2023 7:00	11/3/2023 8:00	1413.7
11/3/2023 8:00	11/3/2023 9:00	1405.8
11/3/2023 9:00	11/3/2023 10:00	1346.0
11/3/2023 10:00	11/3/2023 11:00	1301.2
11/3/2023 11:00	11/3/2023 12:00	1270.3
11/3/2023 12:00	11/3/2023 13:00	1247.1

Start Time	End Time	ANL_MW
11/3/2023 13:00	11/3/2023 14:00	1226.4
11/3/2023 14:00	11/3/2023 15:00	1203.0
11/3/2023 15:00	11/3/2023 16:00	1198.7
11/3/2023 16:00	11/3/2023 17:00	1205.1
11/3/2023 17:00	11/3/2023 18:00	1253.6
11/3/2023 18:00	11/3/2023 19:00	1279.0
11/3/2023 19:00	11/3/2023 20:00	1209.0
11/3/2023 20:00	11/3/2023 21:00	1094.6
11/3/2023 21:00	11/3/2023 22:00	1008.9
11/3/2023 22:00	11/3/2023 23:00	891.0
11/3/2023 23:00	11/4/2023 0:00	880.2
11/4/2023 0:00	11/4/2023 1:00	832.2
11/4/2023 1:00	11/4/2023 2:00	780.9
11/4/2023 2:00	11/4/2023 3:00	744.0
11/4/2023 3:00	11/4/2023 4:00	735.0
11/4/2023 4:00	11/4/2023 5:00	715.8
11/4/2023 5:00	11/4/2023 6:00	725.2
11/4/2023 6:00	11/4/2023 7:00	761.2
11/4/2023 7:00	11/4/2023 8:00	813.6
11/4/2023 8:00	11/4/2023 9:00	873.2
11/4/2023 9:00	11/4/2023 10:00	897.6
11/4/2023 10:00	11/4/2023 11:00	931.4
11/4/2023 11:00	11/4/2023 12:00	887.8
11/4/2023 12:00	11/4/2023 13:00	878.5
11/4/2023 13:00	11/4/2023 14:00	869.5
11/4/2023 14:00	11/4/2023 15:00	881.0
11/4/2023 15:00	11/4/2023 16:00	954.1
11/4/2023 16:00	11/4/2023 17:00	1037.3
11/4/2023 17:00	11/4/2023 18:00	1102.6
11/4/2023 18:00	11/4/2023 19:00	1142.1
11/4/2023 19:00	11/4/2023 20:00	1125.0
11/4/2023 20:00	11/4/2023 21:00	1083.3
11/4/2023 21:00	11/4/2023 22:00	1079.4
11/4/2023 22:00	11/4/2023 23:00	1041.1
11/4/2023 23:00	11/5/2023 0:00	1042.6
11/5/2023 0:00	11/5/2023 1:00	1039.6
11/5/2023 1:00	11/5/2023 2:00	1014.7
11/5/2023 2:00	11/5/2023 3:00	1022.0
11/5/2023 3:00	11/5/2023 4:00	1028.1
11/5/2023 4:00	11/5/2023 5:00	1036.5
11/5/2023 5:00	11/5/2023 6:00	1067.6
11/5/2023 6:00	11/5/2023 7:00	1126.7
11/5/2023 7:00	11/5/2023 8:00	1202.1
11/5/2023 8:00	11/5/2023 9:00	1235.4
11/5/2023 9:00	11/5/2023 10:00	1285.0
11/5/2023 10:00	11/5/2023 11:00	1288.9
11/5/2023 11:00	11/5/2023 12:00	1256.8
11/5/2023 12:00	11/5/2023 13:00	1229.4
11/5/2023 13:00	11/5/2023 14:00	1200.3
11/5/2023 14:00	11/5/2023 15:00	1197.1
11/5/2023 15:00	11/5/2023 16:00	1233.3
11/5/2023 16:00	11/5/2023 17:00	1297.6
11/5/2023 17:00	11/5/2023 18:00	1363.3
11/5/2023 18:00	11/5/2023 19:00	1327.1
11/5/2023 19:00	11/5/2023 20:00	1316.7
11/5/2023 20:00	11/5/2023 21:00	1231.1
11/5/2023 21:00	11/5/2023 22:00	1115.3
11/5/2023 22:00	11/5/2023 23:00	1010.8
11/5/2023 23:00	11/6/2023 0:00	961.1
11/6/2023 0:00	11/6/2023 1:00	931.1
11/6/2023 1:00	11/6/2023 2:00	934.5
11/6/2023 2:00	11/6/2023 3:00	977.3
11/6/2023 3:00	11/6/2023 4:00	1016.6
11/6/2023 4:00	11/6/2023 5:00	1058.7
11/6/2023 5:00	11/6/2023 6:00	1134.6
11/6/2023 6:00	11/6/2023 7:00	1209.1
11/6/2023 7:00	11/6/2023 8:00	1334.8
11/6/2023 8:00	11/6/2023 9:00	1351.1
11/6/2023 9:00	11/6/2023 10:00	1302.5
11/6/2023 10:00	11/6/2023 11:00	1262.8

Start Time	End Time	ANL_MW
11/6/2023 11:00	11/6/2023 12:00	1239.9
11/6/2023 12:00	11/6/2023 13:00	1204.9
11/6/2023 13:00	11/6/2023 14:00	1178.2
11/6/2023 14:00	11/6/2023 15:00	1170.9
11/6/2023 15:00	11/6/2023 16:00	1198.1
11/6/2023 16:00	11/6/2023 17:00	1312.8
11/6/2023 17:00	11/6/2023 18:00	1437.8
11/6/2023 18:00	11/6/2023 19:00	1441.0
11/6/2023 19:00	11/6/2023 20:00	1421.8
11/6/2023 20:00	11/6/2023 21:00	1383.7
11/6/2023 21:00	11/6/2023 22:00	1316.7
11/6/2023 22:00	11/6/2023 23:00	1240.3
11/6/2023 23:00	11/7/2023 0:00	1192.5
11/7/2023 0:00	11/7/2023 1:00	1133.3
11/7/2023 1:00	11/7/2023 2:00	1073.8
11/7/2023 2:00	11/7/2023 3:00	1013.5
11/7/2023 3:00	11/7/2023 4:00	1002.0
11/7/2023 4:00	11/7/2023 5:00	1002.6
11/7/2023 5:00	11/7/2023 6:00	1034.0
11/7/2023 6:00	11/7/2023 7:00	1119.1
11/7/2023 7:00	11/7/2023 8:00	1168.2
11/7/2023 8:00	11/7/2023 9:00	1137.3
11/7/2023 9:00	11/7/2023 10:00	1086.3
11/7/2023 10:00	11/7/2023 11:00	1014.5
11/7/2023 11:00	11/7/2023 12:00	966.5
11/7/2023 12:00	11/7/2023 13:00	932.5
11/7/2023 13:00	11/7/2023 14:00	894.5
11/7/2023 14:00	11/7/2023 15:00	877.9
11/7/2023 15:00	11/7/2023 16:00	879.9
11/7/2023 16:00	11/7/2023 17:00	923.0
11/7/2023 17:00	11/7/2023 18:00	981.2
11/7/2023 18:00	11/7/2023 19:00	963.2
11/7/2023 19:00	11/7/2023 20:00	926.6
11/7/2023 20:00	11/7/2023 21:00	877.2
11/7/2023 21:00	11/7/2023 22:00	810.0
11/7/2023 22:00	11/7/2023 23:00	742.7
11/7/2023 23:00	11/8/2023 0:00	737.8
11/8/2023 0:00	11/8/2023 1:00	742.2
11/8/2023 1:00	11/8/2023 2:00	711.9
11/8/2023 2:00	11/8/2023 3:00	699.2
11/8/2023 3:00	11/8/2023 4:00	692.6
11/8/2023 4:00	11/8/2023 5:00	706.4
11/8/2023 5:00	11/8/2023 6:00	767.8
11/8/2023 6:00	11/8/2023 7:00	858.9
11/8/2023 7:00	11/8/2023 8:00	953.9
11/8/2023 8:00	11/8/2023 9:00	959.8
11/8/2023 9:00	11/8/2023 10:00	981.1
11/8/2023 10:00	11/8/2023 11:00	1023.1
11/8/2023 11:00	11/8/2023 12:00	1052.2
11/8/2023 12:00	11/8/2023 13:00	1058.7
11/8/2023 13:00	11/8/2023 14:00	1067.5
11/8/2023 14:00	11/8/2023 15:00	1104.6
11/8/2023 15:00	11/8/2023 16:00	1121.8
11/8/2023 16:00	11/8/2023 17:00	1178.8
11/8/2023 17:00	11/8/2023 18:00	1266.8
11/8/2023 18:00	11/8/2023 19:00	1243.7
11/8/2023 19:00	11/8/2023 20:00	1204.0
11/8/2023 20:00	11/8/2023 21:00	1184.7
11/8/2023 21:00	11/8/2023 22:00	1106.7
11/8/2023 22:00	11/8/2023 23:00	1025.6
11/8/2023 23:00	11/9/2023 0:00	968.1
11/9/2023 0:00	11/9/2023 1:00	938.2
11/9/2023 1:00	11/9/2023 2:00	898.4
11/9/2023 2:00	11/9/2023 3:00	867.0
11/9/2023 3:00	11/9/2023 4:00	862.5
11/9/2023 4:00	11/9/2023 5:00	896.1
11/9/2023 5:00	11/9/2023 6:00	956.5
11/9/2023 6:00	11/9/2023 7:00	1110.4
11/9/2023 7:00	11/9/2023 8:00	1175.1
11/9/2023 8:00	11/9/2023 9:00	1219.6

Start Time	End Time	ANL_MW
11/9/2023 9:00	11/9/2023 10:00	1225.0
11/9/2023 10:00	11/9/2023 11:00	1239.4
11/9/2023 11:00	11/9/2023 12:00	1230.9
11/9/2023 12:00	11/9/2023 13:00	1221.6
11/9/2023 13:00	11/9/2023 14:00	1218.3
11/9/2023 14:00	11/9/2023 15:00	1263.9
11/9/2023 15:00	11/9/2023 16:00	1333.5
11/9/2023 16:00	11/9/2023 17:00	1433.1
11/9/2023 17:00	11/9/2023 18:00	1512.8
11/9/2023 18:00	11/9/2023 19:00	1495.6
11/9/2023 19:00	11/9/2023 20:00	1478.4
11/9/2023 20:00	11/9/2023 21:00	1440.2
11/9/2023 21:00	11/9/2023 22:00	1372.3
11/9/2023 22:00	11/9/2023 23:00	1289.0
11/9/2023 23:00	11/10/2023 0:00	1236.1
11/10/2023 0:00	11/10/2023 1:00	1197.5
11/10/2023 1:00	11/10/2023 2:00	1193.5
11/10/2023 2:00	11/10/2023 3:00	1161.8
11/10/2023 3:00	11/10/2023 4:00	1152.6
11/10/2023 4:00	11/10/2023 5:00	1165.4
11/10/2023 5:00	11/10/2023 6:00	1205.0
11/10/2023 6:00	11/10/2023 7:00	1285.9
11/10/2023 7:00	11/10/2023 8:00	1336.5
11/10/2023 8:00	11/10/2023 9:00	1298.4
11/10/2023 9:00	11/10/2023 10:00	1234.3
11/10/2023 10:00	11/10/2023 11:00	1178.7
11/10/2023 11:00	11/10/2023 12:00	1139.7
11/10/2023 12:00	11/10/2023 13:00	1092.7
11/10/2023 13:00	11/10/2023 14:00	1058.0
11/10/2023 14:00	11/10/2023 15:00	1031.4
11/10/2023 15:00	11/10/2023 16:00	1076.4
11/10/2023 16:00	11/10/2023 17:00	1185.9
11/10/2023 17:00	11/10/2023 18:00	1276.9
11/10/2023 18:00	11/10/2023 19:00	1258.0
11/10/2023 19:00	11/10/2023 20:00	1220.0
11/10/2023 20:00	11/10/2023 21:00	1150.6
11/10/2023 21:00	11/10/2023 22:00	1099.6
11/10/2023 22:00	11/10/2023 23:00	1053.3
11/10/2023 23:00	11/11/2023 0:00	1091.6
11/11/2023 0:00	11/11/2023 1:00	1072.9
11/11/2023 1:00	11/11/2023 2:00	1026.4
11/11/2023 2:00	11/11/2023 3:00	1005.0
11/11/2023 3:00	11/11/2023 4:00	990.2
11/11/2023 4:00	11/11/2023 5:00	1009.4
11/11/2023 5:00	11/11/2023 6:00	1009.4
11/11/2023 6:00	11/11/2023 7:00	1075.0
11/11/2023 7:00	11/11/2023 8:00	1155.1
11/11/2023 8:00	11/11/2023 9:00	1236.7
11/11/2023 9:00	11/11/2023 10:00	1256.9
11/11/2023 10:00	11/11/2023 11:00	1224.6
11/11/2023 11:00	11/11/2023 12:00	1186.6
11/11/2023 12:00	11/11/2023 13:00	1185.6
11/11/2023 13:00	11/11/2023 14:00	1163.8
11/11/2023 14:00	11/11/2023 15:00	1153.7
11/11/2023 15:00	11/11/2023 16:00	1152.0
11/11/2023 16:00	11/11/2023 17:00	1206.9
11/11/2023 17:00	11/11/2023 18:00	1271.4
11/11/2023 18:00	11/11/2023 19:00	1205.2
11/11/2023 19:00	11/11/2023 20:00	1162.4
11/11/2023 20:00	11/11/2023 21:00	1148.8
11/11/2023 21:00	11/11/2023 22:00	1146.7
11/11/2023 22:00	11/11/2023 23:00	1126.2
11/11/2023 23:00	11/12/2023 0:00	1099.5
11/12/2023 0:00	11/12/2023 1:00	1050.6
11/12/2023 1:00	11/12/2023 2:00	1061.7
11/12/2023 2:00	11/12/2023 3:00	1064.6
11/12/2023 3:00	11/12/2023 4:00	1072.9
11/12/2023 4:00	11/12/2023 5:00	1077.5
11/12/2023 5:00	11/12/2023 6:00	1055.0
11/12/2023 6:00	11/12/2023 7:00	1091.8

Start Time	End Time	ANL_MW
11/12/2023 7:00	11/12/2023 8:00	1189.8
11/12/2023 8:00	11/12/2023 9:00	1237.6
11/12/2023 9:00	11/12/2023 10:00	1283.2
11/12/2023 10:00	11/12/2023 11:00	1274.3
11/12/2023 11:00	11/12/2023 12:00	1268.0
11/12/2023 12:00	11/12/2023 13:00	1255.2
11/12/2023 13:00	11/12/2023 14:00	1219.1
11/12/2023 14:00	11/12/2023 15:00	1211.9
11/12/2023 15:00	11/12/2023 16:00	1217.1
11/12/2023 16:00	11/12/2023 17:00	1322.6
11/12/2023 17:00	11/12/2023 18:00	1414.4
11/12/2023 18:00	11/12/2023 19:00	1394.6
11/12/2023 19:00	11/12/2023 20:00	1376.6
11/12/2023 20:00	11/12/2023 21:00	1336.5
11/12/2023 21:00	11/12/2023 22:00	1309.9
11/12/2023 22:00	11/12/2023 23:00	1267.1
11/12/2023 23:00	11/13/2023 0:00	1215.1
11/13/2023 0:00	11/13/2023 1:00	1172.7
11/13/2023 1:00	11/13/2023 2:00	1137.1
11/13/2023 2:00	11/13/2023 3:00	1143.3
11/13/2023 3:00	11/13/2023 4:00	1153.0
11/13/2023 4:00	11/13/2023 5:00	1177.1
11/13/2023 5:00	11/13/2023 6:00	1186.7
11/13/2023 6:00	11/13/2023 7:00	1263.2
11/13/2023 7:00	11/13/2023 8:00	1344.1
11/13/2023 8:00	11/13/2023 9:00	1391.0
11/13/2023 9:00	11/13/2023 10:00	1423.3
11/13/2023 10:00	11/13/2023 11:00	1428.5
11/13/2023 11:00	11/13/2023 12:00	1421.8
11/13/2023 12:00	11/13/2023 13:00	1392.7
11/13/2023 13:00	11/13/2023 14:00	1359.8
11/13/2023 14:00	11/13/2023 15:00	1344.0
11/13/2023 15:00	11/13/2023 16:00	1369.1
11/13/2023 16:00	11/13/2023 17:00	1475.4
11/13/2023 17:00	11/13/2023 18:00	1571.5
11/13/2023 18:00	11/13/2023 19:00	1540.9
11/13/2023 19:00	11/13/2023 20:00	1515.7
11/13/2023 20:00	11/13/2023 21:00	1472.6
11/13/2023 21:00	11/13/2023 22:00	1403.4
11/13/2023 22:00	11/13/2023 23:00	1324.2
11/13/2023 23:00	11/14/2023 0:00	1271.4
11/14/2023 0:00	11/14/2023 1:00	1228.9
11/14/2023 1:00	11/14/2023 2:00	1196.7
11/14/2023 2:00	11/14/2023 3:00	1171.5
11/14/2023 3:00	11/14/2023 4:00	1160.9
11/14/2023 4:00	11/14/2023 5:00	1162.4
11/14/2023 5:00	11/14/2023 6:00	1217.2
11/14/2023 6:00	11/14/2023 7:00	1351.3
11/14/2023 7:00	11/14/2023 8:00	1479.4
11/14/2023 8:00	11/14/2023 9:00	1494.4
11/14/2023 9:00	11/14/2023 10:00	1455.0
11/14/2023 10:00	11/14/2023 11:00	1414.2
11/14/2023 11:00	11/14/2023 12:00	1386.7
11/14/2023 12:00	11/14/2023 13:00	1350.7
11/14/2023 13:00	11/14/2023 14:00	1328.4
11/14/2023 14:00	11/14/2023 15:00	1318.5
11/14/2023 15:00	11/14/2023 16:00	1335.5
11/14/2023 16:00	11/14/2023 17:00	1422.2
11/14/2023 17:00	11/14/2023 18:00	1496.7
11/14/2023 18:00	11/14/2023 19:00	1458.8
11/14/2023 19:00	11/14/2023 20:00	1403.3
11/14/2023 20:00	11/14/2023 21:00	1344.9
11/14/2023 21:00	11/14/2023 22:00	1280.1
11/14/2023 22:00	11/14/2023 23:00	1202.9
11/14/2023 23:00	11/15/2023 0:00	1151.8
11/15/2023 0:00	11/15/2023 1:00	1112.2
11/15/2023 1:00	11/15/2023 2:00	1151.1
11/15/2023 2:00	11/15/2023 3:00	1150.8
11/15/2023 3:00	11/15/2023 4:00	1179.9
11/15/2023 4:00	11/15/2023 5:00	1183.2

Start Time	End Time	ANL_MW
11/15/2023 5:00	11/15/2023 6:00	1200.7
11/15/2023 6:00	11/15/2023 7:00	1355.1
11/15/2023 7:00	11/15/2023 8:00	1475.3
11/15/2023 8:00	11/15/2023 9:00	1517.1
11/15/2023 9:00	11/15/2023 10:00	1486.9
11/15/2023 10:00	11/15/2023 11:00	1429.8
11/15/2023 11:00	11/15/2023 12:00	1416.0
11/15/2023 12:00	11/15/2023 13:00	1395.6
11/15/2023 13:00	11/15/2023 14:00	1367.6
11/15/2023 14:00	11/15/2023 15:00	1358.7
11/15/2023 15:00	11/15/2023 16:00	1393.2
11/15/2023 16:00	11/15/2023 17:00	1429.6
11/15/2023 17:00	11/15/2023 18:00	1526.0
11/15/2023 18:00	11/15/2023 19:00	1496.0
11/15/2023 19:00	11/15/2023 20:00	1453.7
11/15/2023 20:00	11/15/2023 21:00	1379.9
11/15/2023 21:00	11/15/2023 22:00	1237.1
11/15/2023 22:00	11/15/2023 23:00	1127.8
11/15/2023 23:00	11/16/2023 0:00	1055.6
11/16/2023 0:00	11/16/2023 1:00	1013.9
11/16/2023 1:00	11/16/2023 2:00	981.1
11/16/2023 2:00	11/16/2023 3:00	1017.6
11/16/2023 3:00	11/16/2023 4:00	969.0
11/16/2023 4:00	11/16/2023 5:00	980.7
11/16/2023 5:00	11/16/2023 6:00	1007.7
11/16/2023 6:00	11/16/2023 7:00	1077.8
11/16/2023 7:00	11/16/2023 8:00	1174.2
11/16/2023 8:00	11/16/2023 9:00	1207.9
11/16/2023 9:00	11/16/2023 10:00	1198.6
11/16/2023 10:00	11/16/2023 11:00	1191.8
11/16/2023 11:00	11/16/2023 12:00	1171.6
11/16/2023 12:00	11/16/2023 13:00	1147.7
11/16/2023 13:00	11/16/2023 14:00	1122.4
11/16/2023 14:00	11/16/2023 15:00	1104.3
11/16/2023 15:00	11/16/2023 16:00	1149.4
11/16/2023 16:00	11/16/2023 17:00	1218.0
11/16/2023 17:00	11/16/2023 18:00	1286.2
11/16/2023 18:00	11/16/2023 19:00	1214.6
11/16/2023 19:00	11/16/2023 20:00	1155.4
11/16/2023 20:00	11/16/2023 21:00	1154.5
11/16/2023 21:00	11/16/2023 22:00	1127.3
11/16/2023 22:00	11/16/2023 23:00	1103.9
11/16/2023 23:00	11/17/2023 0:00	1090.9
11/17/2023 0:00	11/17/2023 1:00	1108.4
11/17/2023 1:00	11/17/2023 2:00	1122.6
11/17/2023 2:00	11/17/2023 3:00	1173.1
11/17/2023 3:00	11/17/2023 4:00	1205.5
11/17/2023 4:00	11/17/2023 5:00	1239.9
11/17/2023 5:00	11/17/2023 6:00	1298.0
11/17/2023 6:00	11/17/2023 7:00	1321.9
11/17/2023 7:00	11/17/2023 8:00	1325.0
11/17/2023 8:00	11/17/2023 9:00	1257.2
11/17/2023 9:00	11/17/2023 10:00	1146.3
11/17/2023 10:00	11/17/2023 11:00	1075.9
11/17/2023 11:00	11/17/2023 12:00	1014.4
11/17/2023 12:00	11/17/2023 13:00	981.4
11/17/2023 13:00	11/17/2023 14:00	901.2
11/17/2023 14:00	11/17/2023 15:00	864.5
11/17/2023 15:00	11/17/2023 16:00	877.6
11/17/2023 16:00	11/17/2023 17:00	927.6
11/17/2023 17:00	11/17/2023 18:00	944.7
11/17/2023 18:00	11/17/2023 19:00	897.6
11/17/2023 19:00	11/17/2023 20:00	871.6
11/17/2023 20:00	11/17/2023 21:00	845.0
11/17/2023 21:00	11/17/2023 22:00	779.1
11/17/2023 22:00	11/17/2023 23:00	732.8
11/17/2023 23:00	11/18/2023 0:00	731.5
11/18/2023 0:00	11/18/2023 1:00	672.6
11/18/2023 1:00	11/18/2023 2:00	652.5
11/18/2023 2:00	11/18/2023 3:00	652.4

Start Time	End Time	ANL_MW
11/18/2023 3:00	11/18/2023 4:00	656.3
11/18/2023 4:00	11/18/2023 5:00	648.2
11/18/2023 5:00	11/18/2023 6:00	663.7
11/18/2023 6:00	11/18/2023 7:00	693.9
11/18/2023 7:00	11/18/2023 8:00	686.8
11/18/2023 8:00	11/18/2023 9:00	677.4
11/18/2023 9:00	11/18/2023 10:00	697.0
11/18/2023 10:00	11/18/2023 11:00	706.9
11/18/2023 11:00	11/18/2023 12:00	729.1
11/18/2023 12:00	11/18/2023 13:00	748.9
11/18/2023 13:00	11/18/2023 14:00	764.1
11/18/2023 14:00	11/18/2023 15:00	818.8
11/18/2023 15:00	11/18/2023 16:00	849.6
11/18/2023 16:00	11/18/2023 17:00	959.8
11/18/2023 17:00	11/18/2023 18:00	1017.5
11/18/2023 18:00	11/18/2023 19:00	962.0
11/18/2023 19:00	11/18/2023 20:00	870.6
11/18/2023 20:00	11/18/2023 21:00	818.1
11/18/2023 21:00	11/18/2023 22:00	752.0
11/18/2023 22:00	11/18/2023 23:00	740.2
11/18/2023 23:00	11/19/2023 0:00	696.4
11/19/2023 0:00	11/19/2023 1:00	674.3
11/19/2023 1:00	11/19/2023 2:00	668.3
11/19/2023 2:00	11/19/2023 3:00	656.1
11/19/2023 3:00	11/19/2023 4:00	655.5
11/19/2023 4:00	11/19/2023 5:00	619.8
11/19/2023 5:00	11/19/2023 6:00	691.0
11/19/2023 6:00	11/19/2023 7:00	772.3
11/19/2023 7:00	11/19/2023 8:00	895.3
11/19/2023 8:00	11/19/2023 9:00	992.4
11/19/2023 9:00	11/19/2023 10:00	1036.8
11/19/2023 10:00	11/19/2023 11:00	1057.5
11/19/2023 11:00	11/19/2023 12:00	1076.3
11/19/2023 12:00	11/19/2023 13:00	1101.1
11/19/2023 13:00	11/19/2023 14:00	1086.7
11/19/2023 14:00	11/19/2023 15:00	1107.1
11/19/2023 15:00	11/19/2023 16:00	1166.9
11/19/2023 16:00	11/19/2023 17:00	1294.7
11/19/2023 17:00	11/19/2023 18:00	1394.6
11/19/2023 18:00	11/19/2023 19:00	1371.6
11/19/2023 19:00	11/19/2023 20:00	1330.6
11/19/2023 20:00	11/19/2023 21:00	1333.9
11/19/2023 21:00	11/19/2023 22:00	1298.6
11/19/2023 22:00	11/19/2023 23:00	1249.1
11/19/2023 23:00	11/20/2023 0:00	1199.4
11/20/2023 0:00	11/20/2023 1:00	1180.4
11/20/2023 1:00	11/20/2023 2:00	1141.9
11/20/2023 2:00	11/20/2023 3:00	1144.6
11/20/2023 3:00	11/20/2023 4:00	1138.1
11/20/2023 4:00	11/20/2023 5:00	1130.4
11/20/2023 5:00	11/20/2023 6:00	1115.4
11/20/2023 6:00	11/20/2023 7:00	1224.6
11/20/2023 7:00	11/20/2023 8:00	1306.6
11/20/2023 8:00	11/20/2023 9:00	1340.9
11/20/2023 9:00	11/20/2023 10:00	1328.5
11/20/2023 10:00	11/20/2023 11:00	1291.6
11/20/2023 11:00	11/20/2023 12:00	1219.4
11/20/2023 12:00	11/20/2023 13:00	1182.3
11/20/2023 13:00	11/20/2023 14:00	1144.6
11/20/2023 14:00	11/20/2023 15:00	1112.3
11/20/2023 15:00	11/20/2023 16:00	1153.6
11/20/2023 16:00	11/20/2023 17:00	1281.7
11/20/2023 17:00	11/20/2023 18:00	1365.6
11/20/2023 18:00	11/20/2023 19:00	1315.7
11/20/2023 19:00	11/20/2023 20:00	1264.1
11/20/2023 20:00	11/20/2023 21:00	1222.4
11/20/2023 21:00	11/20/2023 22:00	1161.1
11/20/2023 22:00	11/20/2023 23:00	1058.4
11/20/2023 23:00	11/21/2023 0:00	1032.6
11/21/2023 0:00	11/21/2023 1:00	998.1

Start Time	End Time	ANL_MW
11/21/2023 1:00	11/21/2023 2:00	986.8
11/21/2023 2:00	11/21/2023 3:00	957.5
11/21/2023 3:00	11/21/2023 4:00	944.8
11/21/2023 4:00	11/21/2023 5:00	977.9
11/21/2023 5:00	11/21/2023 6:00	1061.6
11/21/2023 6:00	11/21/2023 7:00	1211.4
11/21/2023 7:00	11/21/2023 8:00	1331.5
11/21/2023 8:00	11/21/2023 9:00	1373.7
11/21/2023 9:00	11/21/2023 10:00	1323.8
11/21/2023 10:00	11/21/2023 11:00	1285.8
11/21/2023 11:00	11/21/2023 12:00	1265.4
11/21/2023 12:00	11/21/2023 13:00	1237.9
11/21/2023 13:00	11/21/2023 14:00	1221.4
11/21/2023 14:00	11/21/2023 15:00	1229.4
11/21/2023 15:00	11/21/2023 16:00	1272.8
11/21/2023 16:00	11/21/2023 17:00	1399.4
11/21/2023 17:00	11/21/2023 18:00	1542.8
11/21/2023 18:00	11/21/2023 19:00	1548.0
11/21/2023 19:00	11/21/2023 20:00	1533.9
11/21/2023 20:00	11/21/2023 21:00	1523.5
11/21/2023 21:00	11/21/2023 22:00	1469.7
11/21/2023 22:00	11/21/2023 23:00	1407.4
11/21/2023 23:00	11/22/2023 0:00	1367.7
11/22/2023 0:00	11/22/2023 1:00	1331.2
11/22/2023 1:00	11/22/2023 2:00	1312.4
11/22/2023 2:00	11/22/2023 3:00	1290.3
11/22/2023 3:00	11/22/2023 4:00	1283.0
11/22/2023 4:00	11/22/2023 5:00	1291.7
11/22/2023 5:00	11/22/2023 6:00	1334.1
11/22/2023 6:00	11/22/2023 7:00	1452.4
11/22/2023 7:00	11/22/2023 8:00	1530.0
11/22/2023 8:00	11/22/2023 9:00	1483.8
11/22/2023 9:00	11/22/2023 10:00	1423.9
11/22/2023 10:00	11/22/2023 11:00	1410.1
11/22/2023 11:00	11/22/2023 12:00	1420.8
11/22/2023 12:00	11/22/2023 13:00	1406.9
11/22/2023 13:00	11/22/2023 14:00	1330.0
11/22/2023 14:00	11/22/2023 15:00	1299.9
11/22/2023 15:00	11/22/2023 16:00	1280.1
11/22/2023 16:00	11/22/2023 17:00	1290.9
11/22/2023 17:00	11/22/2023 18:00	1273.5
11/22/2023 18:00	11/22/2023 19:00	1206.8
11/22/2023 19:00	11/22/2023 20:00	1162.4
11/22/2023 20:00	11/22/2023 21:00	1112.8
11/22/2023 21:00	11/22/2023 22:00	1040.6
11/22/2023 22:00	11/22/2023 23:00	1005.3
11/22/2023 23:00	11/23/2023 0:00	953.4
11/23/2023 0:00	11/23/2023 1:00	898.3
11/23/2023 1:00	11/23/2023 2:00	839.9
11/23/2023 2:00	11/23/2023 3:00	817.0
11/23/2023 3:00	11/23/2023 4:00	820.9
11/23/2023 4:00	11/23/2023 5:00	865.7
11/23/2023 5:00	11/23/2023 6:00	971.3
11/23/2023 6:00	11/23/2023 7:00	1006.8
11/23/2023 7:00	11/23/2023 8:00	1074.2
11/23/2023 8:00	11/23/2023 9:00	1112.8
11/23/2023 9:00	11/23/2023 10:00	1135.9
11/23/2023 10:00	11/23/2023 11:00	1140.2
11/23/2023 11:00	11/23/2023 12:00	1154.6
11/23/2023 12:00	11/23/2023 13:00	1134.9
11/23/2023 13:00	11/23/2023 14:00	1124.2
11/23/2023 14:00	11/23/2023 15:00	1081.1
11/23/2023 15:00	11/23/2023 16:00	1054.2
11/23/2023 16:00	11/23/2023 17:00	1087.0
11/23/2023 17:00	11/23/2023 18:00	1086.0
11/23/2023 18:00	11/23/2023 19:00	1036.4
11/23/2023 19:00	11/23/2023 20:00	980.7
11/23/2023 20:00	11/23/2023 21:00	916.4
11/23/2023 21:00	11/23/2023 22:00	854.6
11/23/2023 22:00	11/23/2023 23:00	836.2

Start Time	End Time	ANL_MW
11/23/2023 23:00	11/24/2023 0:00	805.6
11/24/2023 0:00	11/24/2023 1:00	798.7
11/24/2023 1:00	11/24/2023 2:00	787.6
11/24/2023 2:00	11/24/2023 3:00	755.6
11/24/2023 3:00	11/24/2023 4:00	746.2
11/24/2023 4:00	11/24/2023 5:00	791.6
11/24/2023 5:00	11/24/2023 6:00	864.6
11/24/2023 6:00	11/24/2023 7:00	1027.4
11/24/2023 7:00	11/24/2023 8:00	1198.0
11/24/2023 8:00	11/24/2023 9:00	1237.2
11/24/2023 9:00	11/24/2023 10:00	1187.9
11/24/2023 10:00	11/24/2023 11:00	1156.6
11/24/2023 11:00	11/24/2023 12:00	1151.9
11/24/2023 12:00	11/24/2023 13:00	1145.5
11/24/2023 13:00	11/24/2023 14:00	1154.3
11/24/2023 14:00	11/24/2023 15:00	1187.8
11/24/2023 15:00	11/24/2023 16:00	1261.8
11/24/2023 16:00	11/24/2023 17:00	1376.0
11/24/2023 17:00	11/24/2023 18:00	1440.6
11/24/2023 18:00	11/24/2023 19:00	1405.5
11/24/2023 19:00	11/24/2023 20:00	1362.5
11/24/2023 20:00	11/24/2023 21:00	1291.0
11/24/2023 21:00	11/24/2023 22:00	1246.4
11/24/2023 22:00	11/24/2023 23:00	1173.3
11/24/2023 23:00	11/25/2023 0:00	1127.7
11/25/2023 0:00	11/25/2023 1:00	1090.2
11/25/2023 1:00	11/25/2023 2:00	1058.5
11/25/2023 2:00	11/25/2023 3:00	1035.2
11/25/2023 3:00	11/25/2023 4:00	1046.0
11/25/2023 4:00	11/25/2023 5:00	1065.0
11/25/2023 5:00	11/25/2023 6:00	1097.7
11/25/2023 6:00	11/25/2023 7:00	1190.3
11/25/2023 7:00	11/25/2023 8:00	1287.4
11/25/2023 8:00	11/25/2023 9:00	1353.5
11/25/2023 9:00	11/25/2023 10:00	1374.7
11/25/2023 10:00	11/25/2023 11:00	1403.5
11/25/2023 11:00	11/25/2023 12:00	1403.7
11/25/2023 12:00	11/25/2023 13:00	1398.3
11/25/2023 13:00	11/25/2023 14:00	1382.0
11/25/2023 14:00	11/25/2023 15:00	1402.8
11/25/2023 15:00	11/25/2023 16:00	1475.7
11/25/2023 16:00	11/25/2023 17:00	1548.0
11/25/2023 17:00	11/25/2023 18:00	1633.5
11/25/2023 18:00	11/25/2023 19:00	1545.8
11/25/2023 19:00	11/25/2023 20:00	1463.5
11/25/2023 20:00	11/25/2023 21:00	1416.2
11/25/2023 21:00	11/25/2023 22:00	1398.2
11/25/2023 22:00	11/25/2023 23:00	1331.3
11/25/2023 23:00	11/26/2023 0:00	1295.9
11/26/2023 0:00	11/26/2023 1:00	1251.8
11/26/2023 1:00	11/26/2023 2:00	1205.9
11/26/2023 2:00	11/26/2023 3:00	1203.3
11/26/2023 3:00	11/26/2023 4:00	1188.4
11/26/2023 4:00	11/26/2023 5:00	1190.6
11/26/2023 5:00	11/26/2023 6:00	1229.7
11/26/2023 6:00	11/26/2023 7:00	1257.4
11/26/2023 7:00	11/26/2023 8:00	1316.6
11/26/2023 8:00	11/26/2023 9:00	1404.2
11/26/2023 9:00	11/26/2023 10:00	1426.5
11/26/2023 10:00	11/26/2023 11:00	1420.7
11/26/2023 11:00	11/26/2023 12:00	1412.0
11/26/2023 12:00	11/26/2023 13:00	1367.0
11/26/2023 13:00	11/26/2023 14:00	1329.3
11/26/2023 14:00	11/26/2023 15:00	1309.3
11/26/2023 15:00	11/26/2023 16:00	1370.9
11/26/2023 16:00	11/26/2023 17:00	1486.2
11/26/2023 17:00	11/26/2023 18:00	1550.8
11/26/2023 18:00	11/26/2023 19:00	1502.7
11/26/2023 19:00	11/26/2023 20:00	1459.9
11/26/2023 20:00	11/26/2023 21:00	1396.5

Start Time	End Time	ANL_MW
11/26/2023 21:00	11/26/2023 22:00	1310.5
11/26/2023 22:00	11/26/2023 23:00	1218.6
11/26/2023 23:00	11/27/2023 0:00	1145.8
11/27/2023 0:00	11/27/2023 1:00	1057.0
11/27/2023 1:00	11/27/2023 2:00	1022.8
11/27/2023 2:00	11/27/2023 3:00	1017.1
11/27/2023 3:00	11/27/2023 4:00	964.3
11/27/2023 4:00	11/27/2023 5:00	932.9
11/27/2023 5:00	11/27/2023 6:00	961.2
11/27/2023 6:00	11/27/2023 7:00	1085.0
11/27/2023 7:00	11/27/2023 8:00	1171.0
11/27/2023 8:00	11/27/2023 9:00	1188.4
11/27/2023 9:00	11/27/2023 10:00	1175.9
11/27/2023 10:00	11/27/2023 11:00	1145.1
11/27/2023 11:00	11/27/2023 12:00	1163.4
11/27/2023 12:00	11/27/2023 13:00	1152.5
11/27/2023 13:00	11/27/2023 14:00	1166.0
11/27/2023 14:00	11/27/2023 15:00	1134.5
11/27/2023 15:00	11/27/2023 16:00	1130.9
11/27/2023 16:00	11/27/2023 17:00	1184.8
11/27/2023 17:00	11/27/2023 18:00	1268.7
11/27/2023 18:00	11/27/2023 19:00	1229.0
11/27/2023 19:00	11/27/2023 20:00	1187.0
11/27/2023 20:00	11/27/2023 21:00	1168.4
11/27/2023 21:00	11/27/2023 22:00	1043.0
11/27/2023 22:00	11/27/2023 23:00	980.8
11/27/2023 23:00	11/28/2023 0:00	957.6
11/28/2023 0:00	11/28/2023 1:00	877.6
11/28/2023 1:00	11/28/2023 2:00	906.1
11/28/2023 2:00	11/28/2023 3:00	936.3
11/28/2023 3:00	11/28/2023 4:00	927.6
11/28/2023 4:00	11/28/2023 5:00	967.7
11/28/2023 5:00	11/28/2023 6:00	1082.9
11/28/2023 6:00	11/28/2023 7:00	1235.3
11/28/2023 7:00	11/28/2023 8:00	1308.4
11/28/2023 8:00	11/28/2023 9:00	1359.5
11/28/2023 9:00	11/28/2023 10:00	1393.3
11/28/2023 10:00	11/28/2023 11:00	1384.8
11/28/2023 11:00	11/28/2023 12:00	1395.2
11/28/2023 12:00	11/28/2023 13:00	1420.2
11/28/2023 13:00	11/28/2023 14:00	1441.0
11/28/2023 14:00	11/28/2023 15:00	1412.7
11/28/2023 15:00	11/28/2023 16:00	1377.7
11/28/2023 16:00	11/28/2023 17:00	1459.3
11/28/2023 17:00	11/28/2023 18:00	1501.9
11/28/2023 18:00	11/28/2023 19:00	1424.1
11/28/2023 19:00	11/28/2023 20:00	1363.2
11/28/2023 20:00	11/28/2023 21:00	1377.9
11/28/2023 21:00	11/28/2023 22:00	1345.1
11/28/2023 22:00	11/28/2023 23:00	1294.2
11/28/2023 23:00	11/29/2023 0:00	1256.9
11/29/2023 0:00	11/29/2023 1:00	1226.1
11/29/2023 1:00	11/29/2023 2:00	1173.6
11/29/2023 2:00	11/29/2023 3:00	1145.4
11/29/2023 3:00	11/29/2023 4:00	1130.2
11/29/2023 4:00	11/29/2023 5:00	1139.6
11/29/2023 5:00	11/29/2023 6:00	1145.0
11/29/2023 6:00	11/29/2023 7:00	1257.2
11/29/2023 7:00	11/29/2023 8:00	1344.4
11/29/2023 8:00	11/29/2023 9:00	1335.7
11/29/2023 9:00	11/29/2023 10:00	1257.9
11/29/2023 10:00	11/29/2023 11:00	1170.4
11/29/2023 11:00	11/29/2023 12:00	1167.3
11/29/2023 12:00	11/29/2023 13:00	1189.6
11/29/2023 13:00	11/29/2023 14:00	1192.4
11/29/2023 14:00	11/29/2023 15:00	1215.3
11/29/2023 15:00	11/29/2023 16:00	1290.9
11/29/2023 16:00	11/29/2023 17:00	1439.7
11/29/2023 17:00	11/29/2023 18:00	1557.8
11/29/2023 18:00	11/29/2023 19:00	1537.4

Start Time	End Time	ANL_MW
11/29/2023 19:00	11/29/2023 20:00	1508.9
11/29/2023 20:00	11/29/2023 21:00	1501.4
11/29/2023 21:00	11/29/2023 22:00	1432.6
11/29/2023 22:00	11/29/2023 23:00	1363.5
11/29/2023 23:00	11/30/2023 0:00	1345.4
11/30/2023 0:00	11/30/2023 1:00	1318.3
11/30/2023 1:00	11/30/2023 2:00	1322.9
11/30/2023 2:00	11/30/2023 3:00	1339.3
11/30/2023 3:00	11/30/2023 4:00	1361.8
11/30/2023 4:00	11/30/2023 5:00	1393.8
11/30/2023 5:00	11/30/2023 6:00	1456.9
11/30/2023 6:00	11/30/2023 7:00	1576.5
11/30/2023 7:00	11/30/2023 8:00	1631.7
11/30/2023 8:00	11/30/2023 9:00	1598.4
11/30/2023 9:00	11/30/2023 10:00	1509.9
11/30/2023 10:00	11/30/2023 11:00	1446.7
11/30/2023 11:00	11/30/2023 12:00	1423.4
11/30/2023 12:00	11/30/2023 13:00	1378.8
11/30/2023 13:00	11/30/2023 14:00	1294.0
11/30/2023 14:00	11/30/2023 15:00	1250.1
11/30/2023 15:00	11/30/2023 16:00	1286.0
11/30/2023 16:00	11/30/2023 17:00	1392.5
11/30/2023 17:00	11/30/2023 18:00	1470.1
11/30/2023 18:00	11/30/2023 19:00	1420.0
11/30/2023 19:00	11/30/2023 20:00	1363.3
11/30/2023 20:00	11/30/2023 21:00	1269.6
11/30/2023 21:00	11/30/2023 22:00	1203.2
11/30/2023 22:00	11/30/2023 23:00	1103.5
11/30/2023 23:00	12/1/2023 0:00	1053.8
12/1/2023 0:00	12/1/2023 1:00	962.6
12/1/2023 1:00	12/1/2023 2:00	903.2
12/1/2023 2:00	12/1/2023 3:00	857.3
12/1/2023 3:00	12/1/2023 4:00	841.5
12/1/2023 4:00	12/1/2023 5:00	842.9
12/1/2023 5:00	12/1/2023 6:00	862.4
12/1/2023 6:00	12/1/2023 7:00	967.1
12/1/2023 7:00	12/1/2023 8:00	1084.4
12/1/2023 8:00	12/1/2023 9:00	1106.8
12/1/2023 9:00	12/1/2023 10:00	1085.1
12/1/2023 10:00	12/1/2023 11:00	1055.8
12/1/2023 11:00	12/1/2023 12:00	1046.1
12/1/2023 12:00	12/1/2023 13:00	1019.5
12/1/2023 13:00	12/1/2023 14:00	1018.0
12/1/2023 14:00	12/1/2023 15:00	1042.4
12/1/2023 15:00	12/1/2023 16:00	1085.8
12/1/2023 16:00	12/1/2023 17:00	1181.7
12/1/2023 17:00	12/1/2023 18:00	1207.5
12/1/2023 18:00	12/1/2023 19:00	1167.2
12/1/2023 19:00	12/1/2023 20:00	1163.6
12/1/2023 20:00	12/1/2023 21:00	1165.6
12/1/2023 21:00	12/1/2023 22:00	1109.5
12/1/2023 22:00	12/1/2023 23:00	1073.3
12/1/2023 23:00	12/2/2023 0:00	1067.2
12/2/2023 0:00	12/2/2023 1:00	1063.6
12/2/2023 1:00	12/2/2023 2:00	1031.4
12/2/2023 2:00	12/2/2023 3:00	1013.5
12/2/2023 3:00	12/2/2023 4:00	997.5
12/2/2023 4:00	12/2/2023 5:00	1018.2
12/2/2023 5:00	12/2/2023 6:00	1052.4
12/2/2023 6:00	12/2/2023 7:00	1106.6
12/2/2023 7:00	12/2/2023 8:00	1168.2
12/2/2023 8:00	12/2/2023 9:00	1224.0
12/2/2023 9:00	12/2/2023 10:00	1272.2
12/2/2023 10:00	12/2/2023 11:00	1283.5
12/2/2023 11:00	12/2/2023 12:00	1305.8
12/2/2023 12:00	12/2/2023 13:00	1315.4
12/2/2023 13:00	12/2/2023 14:00	1322.6
12/2/2023 14:00	12/2/2023 15:00	1322.1
12/2/2023 15:00	12/2/2023 16:00	1344.6
12/2/2023 16:00	12/2/2023 17:00	1408.2

Start Time	End Time	ANL_MW
12/2/2023 17:00	12/2/2023 18:00	1443.7
12/2/2023 18:00	12/2/2023 19:00	1368.5
12/2/2023 19:00	12/2/2023 20:00	1276.4
12/2/2023 20:00	12/2/2023 21:00	1165.0
12/2/2023 21:00	12/2/2023 22:00	1119.1
12/2/2023 22:00	12/2/2023 23:00	1057.3
12/2/2023 23:00	12/3/2023 0:00	1012.4
12/3/2023 0:00	12/3/2023 1:00	976.4
12/3/2023 1:00	12/3/2023 2:00	982.8
12/3/2023 2:00	12/3/2023 3:00	1001.7
12/3/2023 3:00	12/3/2023 4:00	1041.4
12/3/2023 4:00	12/3/2023 5:00	1039.4
12/3/2023 5:00	12/3/2023 6:00	1040.6
12/3/2023 6:00	12/3/2023 7:00	1098.7
12/3/2023 7:00	12/3/2023 8:00	1186.7
12/3/2023 8:00	12/3/2023 9:00	1249.6
12/3/2023 9:00	12/3/2023 10:00	1313.8
12/3/2023 10:00	12/3/2023 11:00	1350.4
12/3/2023 11:00	12/3/2023 12:00	1376.3
12/3/2023 12:00	12/3/2023 13:00	1395.5
12/3/2023 13:00	12/3/2023 14:00	1402.1
12/3/2023 14:00	12/3/2023 15:00	1403.5
12/3/2023 15:00	12/3/2023 16:00	1412.4
12/3/2023 16:00	12/3/2023 17:00	1487.8
12/3/2023 17:00	12/3/2023 18:00	1530.2
12/3/2023 18:00	12/3/2023 19:00	1492.1
12/3/2023 19:00	12/3/2023 20:00	1454.9
12/3/2023 20:00	12/3/2023 21:00	1410.5
12/3/2023 21:00	12/3/2023 22:00	1327.4
12/3/2023 22:00	12/3/2023 23:00	1262.4
12/3/2023 23:00	12/4/2023 0:00	1223.4
12/4/2023 0:00	12/4/2023 1:00	1202.0
12/4/2023 1:00	12/4/2023 2:00	1178.6
12/4/2023 2:00	12/4/2023 3:00	1146.5
12/4/2023 3:00	12/4/2023 4:00	1123.7
12/4/2023 4:00	12/4/2023 5:00	1151.6
12/4/2023 5:00	12/4/2023 6:00	1125.2
12/4/2023 6:00	12/4/2023 7:00	1234.1
12/4/2023 7:00	12/4/2023 8:00	1293.3
12/4/2023 8:00	12/4/2023 9:00	1403.3
12/4/2023 9:00	12/4/2023 10:00	1440.0
12/4/2023 10:00	12/4/2023 11:00	1463.6
12/4/2023 11:00	12/4/2023 12:00	1497.7
12/4/2023 12:00	12/4/2023 13:00	1488.6
12/4/2023 13:00	12/4/2023 14:00	1433.3
12/4/2023 14:00	12/4/2023 15:00	1434.0
12/4/2023 15:00	12/4/2023 16:00	1452.5
12/4/2023 16:00	12/4/2023 17:00	1528.1
12/4/2023 17:00	12/4/2023 18:00	1608.9
12/4/2023 18:00	12/4/2023 19:00	1584.4
12/4/2023 19:00	12/4/2023 20:00	1557.6
12/4/2023 20:00	12/4/2023 21:00	1513.5
12/4/2023 21:00	12/4/2023 22:00	1443.1
12/4/2023 22:00	12/4/2023 23:00	1356.1
12/4/2023 23:00	12/5/2023 0:00	1315.1
12/5/2023 0:00	12/5/2023 1:00	1341.4
12/5/2023 1:00	12/5/2023 2:00	1345.1
12/5/2023 2:00	12/5/2023 3:00	1320.8
12/5/2023 3:00	12/5/2023 4:00	1255.5
12/5/2023 4:00	12/5/2023 5:00	1244.3
12/5/2023 5:00	12/5/2023 6:00	1296.0
12/5/2023 6:00	12/5/2023 7:00	1411.1
12/5/2023 7:00	12/5/2023 8:00	1476.8
12/5/2023 8:00	12/5/2023 9:00	1506.8
12/5/2023 9:00	12/5/2023 10:00	1496.0
12/5/2023 10:00	12/5/2023 11:00	1475.9
12/5/2023 11:00	12/5/2023 12:00	1458.7
12/5/2023 12:00	12/5/2023 13:00	1422.1
12/5/2023 13:00	12/5/2023 14:00	1369.6
12/5/2023 14:00	12/5/2023 15:00	1366.0

Start Time	End Time	ANL_MW
12/5/2023 15:00	12/5/2023 16:00	1407.2
12/5/2023 16:00	12/5/2023 17:00	1525.5
12/5/2023 17:00	12/5/2023 18:00	1604.6
12/5/2023 18:00	12/5/2023 19:00	1575.1
12/5/2023 19:00	12/5/2023 20:00	1559.3
12/5/2023 20:00	12/5/2023 21:00	1525.2
12/5/2023 21:00	12/5/2023 22:00	1472.9
12/5/2023 22:00	12/5/2023 23:00	1420.9
12/5/2023 23:00	12/6/2023 0:00	1368.7
12/6/2023 0:00	12/6/2023 1:00	1351.6
12/6/2023 1:00	12/6/2023 2:00	1334.4
12/6/2023 2:00	12/6/2023 3:00	1318.1
12/6/2023 3:00	12/6/2023 4:00	1337.8
12/6/2023 4:00	12/6/2023 5:00	1372.4
12/6/2023 5:00	12/6/2023 6:00	1438.5
12/6/2023 6:00	12/6/2023 7:00	1570.9
12/6/2023 7:00	12/6/2023 8:00	1646.1
12/6/2023 8:00	12/6/2023 9:00	1680.9
12/6/2023 9:00	12/6/2023 10:00	1623.7
12/6/2023 10:00	12/6/2023 11:00	1585.1
12/6/2023 11:00	12/6/2023 12:00	1548.8
12/6/2023 12:00	12/6/2023 13:00	1516.0
12/6/2023 13:00	12/6/2023 14:00	1482.0
12/6/2023 14:00	12/6/2023 15:00	1455.0
12/6/2023 15:00	12/6/2023 16:00	1502.9
12/6/2023 16:00	12/6/2023 17:00	1615.1
12/6/2023 17:00	12/6/2023 18:00	1699.1
12/6/2023 18:00	12/6/2023 19:00	1635.0
12/6/2023 19:00	12/6/2023 20:00	1569.8
12/6/2023 20:00	12/6/2023 21:00	1520.7
12/6/2023 21:00	12/6/2023 22:00	1450.5
12/6/2023 22:00	12/6/2023 23:00	1381.3
12/6/2023 23:00	12/7/2023 0:00	1344.5
12/7/2023 0:00	12/7/2023 1:00	1293.0
12/7/2023 1:00	12/7/2023 2:00	1322.1
12/7/2023 2:00	12/7/2023 3:00	1321.5
12/7/2023 3:00	12/7/2023 4:00	1301.6
12/7/2023 4:00	12/7/2023 5:00	1271.3
12/7/2023 5:00	12/7/2023 6:00	1350.4
12/7/2023 6:00	12/7/2023 7:00	1415.3
12/7/2023 7:00	12/7/2023 8:00	1502.7
12/7/2023 8:00	12/7/2023 9:00	1525.2
12/7/2023 9:00	12/7/2023 10:00	1486.5
12/7/2023 10:00	12/7/2023 11:00	1452.4
12/7/2023 11:00	12/7/2023 12:00	1438.3
12/7/2023 12:00	12/7/2023 13:00	1427.1
12/7/2023 13:00	12/7/2023 14:00	1432.6
12/7/2023 14:00	12/7/2023 15:00	1459.0
12/7/2023 15:00	12/7/2023 16:00	1507.1
12/7/2023 16:00	12/7/2023 17:00	1614.0
12/7/2023 17:00	12/7/2023 18:00	1686.7
12/7/2023 18:00	12/7/2023 19:00	1648.9
12/7/2023 19:00	12/7/2023 20:00	1628.0
12/7/2023 20:00	12/7/2023 21:00	1601.6
12/7/2023 21:00	12/7/2023 22:00	1517.8
12/7/2023 22:00	12/7/2023 23:00	1462.0
12/7/2023 23:00	12/8/2023 0:00	1405.8
12/8/2023 0:00	12/8/2023 1:00	1351.8
12/8/2023 1:00	12/8/2023 2:00	1279.8
12/8/2023 2:00	12/8/2023 3:00	1269.6
12/8/2023 3:00	12/8/2023 4:00	1250.1
12/8/2023 4:00	12/8/2023 5:00	1227.6
12/8/2023 5:00	12/8/2023 6:00	1260.0
12/8/2023 6:00	12/8/2023 7:00	1351.1
12/8/2023 7:00	12/8/2023 8:00	1421.2
12/8/2023 8:00	12/8/2023 9:00	1421.7
12/8/2023 9:00	12/8/2023 10:00	1368.7
12/8/2023 10:00	12/8/2023 11:00	1323.8
12/8/2023 11:00	12/8/2023 12:00	1262.6
12/8/2023 12:00	12/8/2023 13:00	1221.7

Start Time	End Time	ANL_MW
12/8/2023 13:00	12/8/2023 14:00	1163.8
12/8/2023 14:00	12/8/2023 15:00	1170.9
12/8/2023 15:00	12/8/2023 16:00	1199.7
12/8/2023 16:00	12/8/2023 17:00	1269.8
12/8/2023 17:00	12/8/2023 18:00	1349.0
12/8/2023 18:00	12/8/2023 19:00	1317.7
12/8/2023 19:00	12/8/2023 20:00	1307.4
12/8/2023 20:00	12/8/2023 21:00	1305.6
12/8/2023 21:00	12/8/2023 22:00	1251.0
12/8/2023 22:00	12/8/2023 23:00	1224.7
12/8/2023 23:00	12/9/2023 0:00	1201.8
12/9/2023 0:00	12/9/2023 1:00	1140.9
12/9/2023 1:00	12/9/2023 2:00	1164.0
12/9/2023 2:00	12/9/2023 3:00	1175.4
12/9/2023 3:00	12/9/2023 4:00	1208.6
12/9/2023 4:00	12/9/2023 5:00	1234.7
12/9/2023 5:00	12/9/2023 6:00	1281.8
12/9/2023 6:00	12/9/2023 7:00	1357.8
12/9/2023 7:00	12/9/2023 8:00	1515.0
12/9/2023 8:00	12/9/2023 9:00	1571.4
12/9/2023 9:00	12/9/2023 10:00	1561.6
12/9/2023 10:00	12/9/2023 11:00	1553.5
12/9/2023 11:00	12/9/2023 12:00	1520.1
12/9/2023 12:00	12/9/2023 13:00	1490.0
12/9/2023 13:00	12/9/2023 14:00	1439.1
12/9/2023 14:00	12/9/2023 15:00	1423.3
12/9/2023 15:00	12/9/2023 16:00	1457.5
12/9/2023 16:00	12/9/2023 17:00	1524.6
12/9/2023 17:00	12/9/2023 18:00	1619.4
12/9/2023 18:00	12/9/2023 19:00	1586.2
12/9/2023 19:00	12/9/2023 20:00	1549.5
12/9/2023 20:00	12/9/2023 21:00	1522.1
12/9/2023 21:00	12/9/2023 22:00	1468.7
12/9/2023 22:00	12/9/2023 23:00	1402.7
12/9/2023 23:00	12/10/2023 0:00	1322.0
12/10/2023 0:00	12/10/2023 1:00	1293.4
12/10/2023 1:00	12/10/2023 2:00	1234.1
12/10/2023 2:00	12/10/2023 3:00	1184.6
12/10/2023 3:00	12/10/2023 4:00	1146.3
12/10/2023 4:00	12/10/2023 5:00	1136.4
12/10/2023 5:00	12/10/2023 6:00	1121.9
12/10/2023 6:00	12/10/2023 7:00	1128.7
12/10/2023 7:00	12/10/2023 8:00	1173.8
12/10/2023 8:00	12/10/2023 9:00	1219.0
12/10/2023 9:00	12/10/2023 10:00	1243.3
12/10/2023 10:00	12/10/2023 11:00	1240.5
12/10/2023 11:00	12/10/2023 12:00	1207.7
12/10/2023 12:00	12/10/2023 13:00	1211.4
12/10/2023 13:00	12/10/2023 14:00	1174.5
12/10/2023 14:00	12/10/2023 15:00	1168.1
12/10/2023 15:00	12/10/2023 16:00	1187.5
12/10/2023 16:00	12/10/2023 17:00	1289.1
12/10/2023 17:00	12/10/2023 18:00	1350.2
12/10/2023 18:00	12/10/2023 19:00	1254.8
12/10/2023 19:00	12/10/2023 20:00	1210.5
12/10/2023 20:00	12/10/2023 21:00	1092.1
12/10/2023 21:00	12/10/2023 22:00	989.5
12/10/2023 22:00	12/10/2023 23:00	857.9
12/10/2023 23:00	12/11/2023 0:00	748.8
12/11/2023 0:00	12/11/2023 1:00	687.6
12/11/2023 1:00	12/11/2023 2:00	680.4
12/11/2023 2:00	12/11/2023 3:00	647.2
12/11/2023 3:00	12/11/2023 4:00	661.9
12/11/2023 4:00	12/11/2023 5:00	675.3
12/11/2023 5:00	12/11/2023 6:00	708.0
12/11/2023 6:00	12/11/2023 7:00	745.2
12/11/2023 7:00	12/11/2023 8:00	880.3
12/11/2023 8:00	12/11/2023 9:00	918.4
12/11/2023 9:00	12/11/2023 10:00	927.6
12/11/2023 10:00	12/11/2023 11:00	931.2

Start Time	End Time	ANL_MW
12/11/2023 11:00	12/11/2023 12:00	963.3
12/11/2023 12:00	12/11/2023 13:00	1006.8
12/11/2023 13:00	12/11/2023 14:00	1022.1
12/11/2023 14:00	12/11/2023 15:00	1048.9
12/11/2023 15:00	12/11/2023 16:00	1067.7
12/11/2023 16:00	12/11/2023 17:00	1138.1
12/11/2023 17:00	12/11/2023 18:00	1153.3
12/11/2023 18:00	12/11/2023 19:00	1091.5
12/11/2023 19:00	12/11/2023 20:00	1024.6
12/11/2023 20:00	12/11/2023 21:00	940.8
12/11/2023 21:00	12/11/2023 22:00	890.8
12/11/2023 22:00	12/11/2023 23:00	836.4
12/11/2023 23:00	12/12/2023 0:00	800.0
12/12/2023 0:00	12/12/2023 1:00	842.4
12/12/2023 1:00	12/12/2023 2:00	872.5
12/12/2023 2:00	12/12/2023 3:00	885.3
12/12/2023 3:00	12/12/2023 4:00	860.9
12/12/2023 4:00	12/12/2023 5:00	878.6
12/12/2023 5:00	12/12/2023 6:00	938.6
12/12/2023 6:00	12/12/2023 7:00	1090.9
12/12/2023 7:00	12/12/2023 8:00	1180.4
12/12/2023 8:00	12/12/2023 9:00	1200.0
12/12/2023 9:00	12/12/2023 10:00	1170.7
12/12/2023 10:00	12/12/2023 11:00	1138.4
12/12/2023 11:00	12/12/2023 12:00	1127.3
12/12/2023 12:00	12/12/2023 13:00	1145.0
12/12/2023 13:00	12/12/2023 14:00	1159.5
12/12/2023 14:00	12/12/2023 15:00	1165.5
12/12/2023 15:00	12/12/2023 16:00	1236.1
12/12/2023 16:00	12/12/2023 17:00	1366.3
12/12/2023 17:00	12/12/2023 18:00	1497.9
12/12/2023 18:00	12/12/2023 19:00	1507.9
12/12/2023 19:00	12/12/2023 20:00	1499.9
12/12/2023 20:00	12/12/2023 21:00	1462.7
12/12/2023 21:00	12/12/2023 22:00	1372.7
12/12/2023 22:00	12/12/2023 23:00	1254.0
12/12/2023 23:00	12/13/2023 0:00	1205.3
12/13/2023 0:00	12/13/2023 1:00	1134.1
12/13/2023 1:00	12/13/2023 2:00	1113.6
12/13/2023 2:00	12/13/2023 3:00	1042.3
12/13/2023 3:00	12/13/2023 4:00	1038.9
12/13/2023 4:00	12/13/2023 5:00	1036.5
12/13/2023 5:00	12/13/2023 6:00	1077.9
12/13/2023 6:00	12/13/2023 7:00	1161.1
12/13/2023 7:00	12/13/2023 8:00	1230.3
12/13/2023 8:00	12/13/2023 9:00	1284.1
12/13/2023 9:00	12/13/2023 10:00	1333.1
12/13/2023 10:00	12/13/2023 11:00	1318.9
12/13/2023 11:00	12/13/2023 12:00	1331.4
12/13/2023 12:00	12/13/2023 13:00	1357.4
12/13/2023 13:00	12/13/2023 14:00	1367.7
12/13/2023 14:00	12/13/2023 15:00	1313.0
12/13/2023 15:00	12/13/2023 16:00	1260.0
12/13/2023 16:00	12/13/2023 17:00	1335.5
12/13/2023 17:00	12/13/2023 18:00	1439.4
12/13/2023 18:00	12/13/2023 19:00	1386.5
12/13/2023 19:00	12/13/2023 20:00	1348.4
12/13/2023 20:00	12/13/2023 21:00	1270.3
12/13/2023 21:00	12/13/2023 22:00	1216.0
12/13/2023 22:00	12/13/2023 23:00	1115.0
12/13/2023 23:00	12/14/2023 0:00	1112.1
12/14/2023 0:00	12/14/2023 1:00	1112.0
12/14/2023 1:00	12/14/2023 2:00	1042.1
12/14/2023 2:00	12/14/2023 3:00	1037.6
12/14/2023 3:00	12/14/2023 4:00	1051.9
12/14/2023 4:00	12/14/2023 5:00	1103.0
12/14/2023 5:00	12/14/2023 6:00	1198.9
12/14/2023 6:00	12/14/2023 7:00	1331.3
12/14/2023 7:00	12/14/2023 8:00	1436.4
12/14/2023 8:00	12/14/2023 9:00	1427.8

Start Time	End Time	ANL_MW
12/14/2023 9:00	12/14/2023 10:00	1382.1
12/14/2023 10:00	12/14/2023 11:00	1374.2
12/14/2023 11:00	12/14/2023 12:00	1357.2
12/14/2023 12:00	12/14/2023 13:00	1328.7
12/14/2023 13:00	12/14/2023 14:00	1317.7
12/14/2023 14:00	12/14/2023 15:00	1302.0
12/14/2023 15:00	12/14/2023 16:00	1362.5
12/14/2023 16:00	12/14/2023 17:00	1539.7
12/14/2023 17:00	12/14/2023 18:00	1645.8
12/14/2023 18:00	12/14/2023 19:00	1576.2
12/14/2023 19:00	12/14/2023 20:00	1528.8
12/14/2023 20:00	12/14/2023 21:00	1543.1
12/14/2023 21:00	12/14/2023 22:00	1461.8
12/14/2023 22:00	12/14/2023 23:00	1369.7
12/14/2023 23:00	12/15/2023 0:00	1336.4
12/15/2023 0:00	12/15/2023 1:00	1257.2
12/15/2023 1:00	12/15/2023 2:00	1190.9
12/15/2023 2:00	12/15/2023 3:00	1120.7
12/15/2023 3:00	12/15/2023 4:00	1080.5
12/15/2023 4:00	12/15/2023 5:00	1055.6
12/15/2023 5:00	12/15/2023 6:00	1069.7
12/15/2023 6:00	12/15/2023 7:00	1177.8
12/15/2023 7:00	12/15/2023 8:00	1247.8
12/15/2023 8:00	12/15/2023 9:00	1256.7
12/15/2023 9:00	12/15/2023 10:00	1229.3
12/15/2023 10:00	12/15/2023 11:00	1180.6
12/15/2023 11:00	12/15/2023 12:00	1120.6
12/15/2023 12:00	12/15/2023 13:00	1085.8
12/15/2023 13:00	12/15/2023 14:00	1082.1
12/15/2023 14:00	12/15/2023 15:00	1084.9
12/15/2023 15:00	12/15/2023 16:00	1120.3
12/15/2023 16:00	12/15/2023 17:00	1237.7
12/15/2023 17:00	12/15/2023 18:00	1319.8
12/15/2023 18:00	12/15/2023 19:00	1325.3
12/15/2023 19:00	12/15/2023 20:00	1312.7
12/15/2023 20:00	12/15/2023 21:00	1269.2
12/15/2023 21:00	12/15/2023 22:00	1241.5
12/15/2023 22:00	12/15/2023 23:00	1155.9
12/15/2023 23:00	12/16/2023 0:00	1119.3
12/16/2023 0:00	12/16/2023 1:00	1135.3
12/16/2023 1:00	12/16/2023 2:00	1102.0
12/16/2023 2:00	12/16/2023 3:00	1085.6
12/16/2023 3:00	12/16/2023 4:00	1063.2
12/16/2023 4:00	12/16/2023 5:00	1075.6
12/16/2023 5:00	12/16/2023 6:00	1092.2
12/16/2023 6:00	12/16/2023 7:00	1118.6
12/16/2023 7:00	12/16/2023 8:00	1159.7
12/16/2023 8:00	12/16/2023 9:00	1145.9
12/16/2023 9:00	12/16/2023 10:00	1120.1
12/16/2023 10:00	12/16/2023 11:00	1085.0
12/16/2023 11:00	12/16/2023 12:00	1070.2
12/16/2023 12:00	12/16/2023 13:00	1086.4
12/16/2023 13:00	12/16/2023 14:00	1098.0
12/16/2023 14:00	12/16/2023 15:00	1116.9
12/16/2023 15:00	12/16/2023 16:00	1221.8
12/16/2023 16:00	12/16/2023 17:00	1400.2
12/16/2023 17:00	12/16/2023 18:00	1486.2
12/16/2023 18:00	12/16/2023 19:00	1481.5
12/16/2023 19:00	12/16/2023 20:00	1481.1
12/16/2023 20:00	12/16/2023 21:00	1493.2
12/16/2023 21:00	12/16/2023 22:00	1477.6
12/16/2023 22:00	12/16/2023 23:00	1439.1
12/16/2023 23:00	12/17/2023 0:00	1426.2
12/17/2023 0:00	12/17/2023 1:00	1399.6
12/17/2023 1:00	12/17/2023 2:00	1399.2
12/17/2023 2:00	12/17/2023 3:00	1413.4
12/17/2023 3:00	12/17/2023 4:00	1390.4
12/17/2023 4:00	12/17/2023 5:00	1362.3
12/17/2023 5:00	12/17/2023 6:00	1337.4
12/17/2023 6:00	12/17/2023 7:00	1319.5

Start Time	End Time	ANL_MW
12/17/2023 7:00	12/17/2023 8:00	1305.9
12/17/2023 8:00	12/17/2023 9:00	1314.2
12/17/2023 9:00	12/17/2023 10:00	1300.6
12/17/2023 10:00	12/17/2023 11:00	1258.6
12/17/2023 11:00	12/17/2023 12:00	1218.2
12/17/2023 12:00	12/17/2023 13:00	1200.5
12/17/2023 13:00	12/17/2023 14:00	1197.6
12/17/2023 14:00	12/17/2023 15:00	1238.4
12/17/2023 15:00	12/17/2023 16:00	1300.6
12/17/2023 16:00	12/17/2023 17:00	1383.8
12/17/2023 17:00	12/17/2023 18:00	1465.2
12/17/2023 18:00	12/17/2023 19:00	1415.7
12/17/2023 19:00	12/17/2023 20:00	1319.0
12/17/2023 20:00	12/17/2023 21:00	1179.3
12/17/2023 21:00	12/17/2023 22:00	1135.2
12/17/2023 22:00	12/17/2023 23:00	1042.0
12/17/2023 23:00	12/18/2023 0:00	927.9
12/18/2023 0:00	12/18/2023 1:00	866.5
12/18/2023 1:00	12/18/2023 2:00	803.7
12/18/2023 2:00	12/18/2023 3:00	760.7
12/18/2023 3:00	12/18/2023 4:00	717.8
12/18/2023 4:00	12/18/2023 5:00	739.7
12/18/2023 5:00	12/18/2023 6:00	786.3
12/18/2023 6:00	12/18/2023 7:00	900.9
12/18/2023 7:00	12/18/2023 8:00	1026.7
12/18/2023 8:00	12/18/2023 9:00	1089.3
12/18/2023 9:00	12/18/2023 10:00	1088.6
12/18/2023 10:00	12/18/2023 11:00	1086.2
12/18/2023 11:00	12/18/2023 12:00	1089.3
12/18/2023 12:00	12/18/2023 13:00	1127.2
12/18/2023 13:00	12/18/2023 14:00	1141.6
12/18/2023 14:00	12/18/2023 15:00	1149.9
12/18/2023 15:00	12/18/2023 16:00	1188.9
12/18/2023 16:00	12/18/2023 17:00	1264.4
12/18/2023 17:00	12/18/2023 18:00	1306.2
12/18/2023 18:00	12/18/2023 19:00	1272.7
12/18/2023 19:00	12/18/2023 20:00	1263.1
12/18/2023 20:00	12/18/2023 21:00	1197.9
12/18/2023 21:00	12/18/2023 22:00	1097.6
12/18/2023 22:00	12/18/2023 23:00	1019.3
12/18/2023 23:00	12/19/2023 0:00	958.9
12/19/2023 0:00	12/19/2023 1:00	893.1
12/19/2023 1:00	12/19/2023 2:00	823.2
12/19/2023 2:00	12/19/2023 3:00	764.5
12/19/2023 3:00	12/19/2023 4:00	772.3
12/19/2023 4:00	12/19/2023 5:00	783.4
12/19/2023 5:00	12/19/2023 6:00	826.3
12/19/2023 6:00	12/19/2023 7:00	939.5
12/19/2023 7:00	12/19/2023 8:00	1028.6
12/19/2023 8:00	12/19/2023 9:00	994.2
12/19/2023 9:00	12/19/2023 10:00	1058.1
12/19/2023 10:00	12/19/2023 11:00	1123.8
12/19/2023 11:00	12/19/2023 12:00	1128.3
12/19/2023 12:00	12/19/2023 13:00	1162.8
12/19/2023 13:00	12/19/2023 14:00	1185.6
12/19/2023 14:00	12/19/2023 15:00	1154.2
12/19/2023 15:00	12/19/2023 16:00	1184.5
12/19/2023 16:00	12/19/2023 17:00	1277.0
12/19/2023 17:00	12/19/2023 18:00	1314.5
12/19/2023 18:00	12/19/2023 19:00	1289.0
12/19/2023 19:00	12/19/2023 20:00	1280.2
12/19/2023 20:00	12/19/2023 21:00	1226.9
12/19/2023 21:00	12/19/2023 22:00	1216.2
12/19/2023 22:00	12/19/2023 23:00	1192.9
12/19/2023 23:00	12/20/2023 0:00	1132.0
12/20/2023 0:00	12/20/2023 1:00	1083.4
12/20/2023 1:00	12/20/2023 2:00	1063.6
12/20/2023 2:00	12/20/2023 3:00	1025.1
12/20/2023 3:00	12/20/2023 4:00	1015.1
12/20/2023 4:00	12/20/2023 5:00	1032.3

Start Time	End Time	ANL_MW
12/20/2023 5:00	12/20/2023 6:00	1054.5
12/20/2023 6:00	12/20/2023 7:00	1160.7
12/20/2023 7:00	12/20/2023 8:00	1259.9
12/20/2023 8:00	12/20/2023 9:00	1246.4
12/20/2023 9:00	12/20/2023 10:00	1211.8
12/20/2023 10:00	12/20/2023 11:00	1199.1
12/20/2023 11:00	12/20/2023 12:00	1153.2
12/20/2023 12:00	12/20/2023 13:00	1085.4
12/20/2023 13:00	12/20/2023 14:00	1095.3
12/20/2023 14:00	12/20/2023 15:00	1101.1
12/20/2023 15:00	12/20/2023 16:00	1090.8
12/20/2023 16:00	12/20/2023 17:00	1164.7
12/20/2023 17:00	12/20/2023 18:00	1215.9
12/20/2023 18:00	12/20/2023 19:00	1180.0
12/20/2023 19:00	12/20/2023 20:00	1160.9
12/20/2023 20:00	12/20/2023 21:00	1177.7
12/20/2023 21:00	12/20/2023 22:00	1169.7
12/20/2023 22:00	12/20/2023 23:00	1152.3
12/20/2023 23:00	12/21/2023 0:00	1179.4
12/21/2023 0:00	12/21/2023 1:00	1209.8
12/21/2023 1:00	12/21/2023 2:00	1204.5
12/21/2023 2:00	12/21/2023 3:00	1160.6
12/21/2023 3:00	12/21/2023 4:00	1126.7
12/21/2023 4:00	12/21/2023 5:00	1129.8
12/21/2023 5:00	12/21/2023 6:00	1180.3
12/21/2023 6:00	12/21/2023 7:00	1284.9
12/21/2023 7:00	12/21/2023 8:00	1336.9
12/21/2023 8:00	12/21/2023 9:00	1435.1
12/21/2023 9:00	12/21/2023 10:00	1498.1
12/21/2023 10:00	12/21/2023 11:00	1499.9
12/21/2023 11:00	12/21/2023 12:00	1532.9
12/21/2023 12:00	12/21/2023 13:00	1528.9
12/21/2023 13:00	12/21/2023 14:00	1501.4
12/21/2023 14:00	12/21/2023 15:00	1497.8
12/21/2023 15:00	12/21/2023 16:00	1522.4
12/21/2023 16:00	12/21/2023 17:00	1544.8
12/21/2023 17:00	12/21/2023 18:00	1562.3
12/21/2023 18:00	12/21/2023 19:00	1531.8
12/21/2023 19:00	12/21/2023 20:00	1542.9
12/21/2023 20:00	12/21/2023 21:00	1521.0
12/21/2023 21:00	12/21/2023 22:00	1449.8
12/21/2023 22:00	12/21/2023 23:00	1342.0
12/21/2023 23:00	12/22/2023 0:00	1285.0
12/22/2023 0:00	12/22/2023 1:00	1245.7
12/22/2023 1:00	12/22/2023 2:00	1177.5
12/22/2023 2:00	12/22/2023 3:00	1167.5
12/22/2023 3:00	12/22/2023 4:00	1174.8
12/22/2023 4:00	12/22/2023 5:00	1208.0
12/22/2023 5:00	12/22/2023 6:00	1247.9
12/22/2023 6:00	12/22/2023 7:00	1336.8
12/22/2023 7:00	12/22/2023 8:00	1412.2
12/22/2023 8:00	12/22/2023 9:00	1482.4
12/22/2023 9:00	12/22/2023 10:00	1515.1
12/22/2023 10:00	12/22/2023 11:00	1559.3
12/22/2023 11:00	12/22/2023 12:00	1600.9
12/22/2023 12:00	12/22/2023 13:00	1583.3
12/22/2023 13:00	12/22/2023 14:00	1584.3
12/22/2023 14:00	12/22/2023 15:00	1600.2
12/22/2023 15:00	12/22/2023 16:00	1623.3
12/22/2023 16:00	12/22/2023 17:00	1695.5
12/22/2023 17:00	12/22/2023 18:00	1740.5
12/22/2023 18:00	12/22/2023 19:00	1688.1
12/22/2023 19:00	12/22/2023 20:00	1664.1
12/22/2023 20:00	12/22/2023 21:00	1667.9
12/22/2023 21:00	12/22/2023 22:00	1643.7
12/22/2023 22:00	12/22/2023 23:00	1595.7
12/22/2023 23:00	12/23/2023 0:00	1561.0
12/23/2023 0:00	12/23/2023 1:00	1521.3
12/23/2023 1:00	12/23/2023 2:00	1547.6
12/23/2023 2:00	12/23/2023 3:00	1530.1

Start Time	End Time	ANL_MW
12/23/2023 3:00	12/23/2023 4:00	1529.4
12/23/2023 4:00	12/23/2023 5:00	1560.9
12/23/2023 5:00	12/23/2023 6:00	1616.2
12/23/2023 6:00	12/23/2023 7:00	1694.5
12/23/2023 7:00	12/23/2023 8:00	1725.2
12/23/2023 8:00	12/23/2023 9:00	1755.1
12/23/2023 9:00	12/23/2023 10:00	1760.5
12/23/2023 10:00	12/23/2023 11:00	1714.2
12/23/2023 11:00	12/23/2023 12:00	1669.8
12/23/2023 12:00	12/23/2023 13:00	1618.1
12/23/2023 13:00	12/23/2023 14:00	1606.0
12/23/2023 14:00	12/23/2023 15:00	1590.9
12/23/2023 15:00	12/23/2023 16:00	1615.4
12/23/2023 16:00	12/23/2023 17:00	1709.6
12/23/2023 17:00	12/23/2023 18:00	1732.1
12/23/2023 18:00	12/23/2023 19:00	1685.2
12/23/2023 19:00	12/23/2023 20:00	1652.6
12/23/2023 20:00	12/23/2023 21:00	1584.6
12/23/2023 21:00	12/23/2023 22:00	1511.6
12/23/2023 22:00	12/23/2023 23:00	1393.7
12/23/2023 23:00	12/24/2023 0:00	1315.3
12/24/2023 0:00	12/24/2023 1:00	1281.0
12/24/2023 1:00	12/24/2023 2:00	1233.2
12/24/2023 2:00	12/24/2023 3:00	1191.6
12/24/2023 3:00	12/24/2023 4:00	1166.8
12/24/2023 4:00	12/24/2023 5:00	1176.4
12/24/2023 5:00	12/24/2023 6:00	1213.9
12/24/2023 6:00	12/24/2023 7:00	1246.4
12/24/2023 7:00	12/24/2023 8:00	1311.1
12/24/2023 8:00	12/24/2023 9:00	1397.5
12/24/2023 9:00	12/24/2023 10:00	1377.6
12/24/2023 10:00	12/24/2023 11:00	1373.8
12/24/2023 11:00	12/24/2023 12:00	1381.8
12/24/2023 12:00	12/24/2023 13:00	1407.4
12/24/2023 13:00	12/24/2023 14:00	1372.1
12/24/2023 14:00	12/24/2023 15:00	1349.9
12/24/2023 15:00	12/24/2023 16:00	1366.7
12/24/2023 16:00	12/24/2023 17:00	1383.1
12/24/2023 17:00	12/24/2023 18:00	1377.0
12/24/2023 18:00	12/24/2023 19:00	1316.5
12/24/2023 19:00	12/24/2023 20:00	1266.3
12/24/2023 20:00	12/24/2023 21:00	1234.1
12/24/2023 21:00	12/24/2023 22:00	1216.4
12/24/2023 22:00	12/24/2023 23:00	1194.6
12/24/2023 23:00	12/25/2023 0:00	1170.1
12/25/2023 0:00	12/25/2023 1:00	1130.4
12/25/2023 1:00	12/25/2023 2:00	1108.9
12/25/2023 2:00	12/25/2023 3:00	1111.9
12/25/2023 3:00	12/25/2023 4:00	1119.0
12/25/2023 4:00	12/25/2023 5:00	1148.7
12/25/2023 5:00	12/25/2023 6:00	1206.9
12/25/2023 6:00	12/25/2023 7:00	1278.6
12/25/2023 7:00	12/25/2023 8:00	1343.8
12/25/2023 8:00	12/25/2023 9:00	1409.5
12/25/2023 9:00	12/25/2023 10:00	1432.2
12/25/2023 10:00	12/25/2023 11:00	1406.0
12/25/2023 11:00	12/25/2023 12:00	1390.7
12/25/2023 12:00	12/25/2023 13:00	1354.6
12/25/2023 13:00	12/25/2023 14:00	1300.8
12/25/2023 14:00	12/25/2023 15:00	1272.5
12/25/2023 15:00	12/25/2023 16:00	1265.6
12/25/2023 16:00	12/25/2023 17:00	1281.2
12/25/2023 17:00	12/25/2023 18:00	1271.5
12/25/2023 18:00	12/25/2023 19:00	1228.2
12/25/2023 19:00	12/25/2023 20:00	1192.0
12/25/2023 20:00	12/25/2023 21:00	1153.4
12/25/2023 21:00	12/25/2023 22:00	1105.0
12/25/2023 22:00	12/25/2023 23:00	1019.0
12/25/2023 23:00	12/26/2023 0:00	952.6
12/26/2023 0:00	12/26/2023 1:00	912.3

Start Time	End Time	ANL_MW
12/26/2023 1:00	12/26/2023 2:00	857.0
12/26/2023 2:00	12/26/2023 3:00	820.9
12/26/2023 3:00	12/26/2023 4:00	811.1
12/26/2023 4:00	12/26/2023 5:00	808.6
12/26/2023 5:00	12/26/2023 6:00	825.7
12/26/2023 6:00	12/26/2023 7:00	862.8
12/26/2023 7:00	12/26/2023 8:00	914.9
12/26/2023 8:00	12/26/2023 9:00	975.9
12/26/2023 9:00	12/26/2023 10:00	1024.1
12/26/2023 10:00	12/26/2023 11:00	1075.3
12/26/2023 11:00	12/26/2023 12:00	1101.4
12/26/2023 12:00	12/26/2023 13:00	1085.9
12/26/2023 13:00	12/26/2023 14:00	1100.8
12/26/2023 14:00	12/26/2023 15:00	1114.9
12/26/2023 15:00	12/26/2023 16:00	1138.5
12/26/2023 16:00	12/26/2023 17:00	1171.0
12/26/2023 17:00	12/26/2023 18:00	1225.3
12/26/2023 18:00	12/26/2023 19:00	1193.2
12/26/2023 19:00	12/26/2023 20:00	1178.4
12/26/2023 20:00	12/26/2023 21:00	1166.5
12/26/2023 21:00	12/26/2023 22:00	1128.9
12/26/2023 22:00	12/26/2023 23:00	1068.4
12/26/2023 23:00	12/27/2023 0:00	1060.0
12/27/2023 0:00	12/27/2023 1:00	1018.1
12/27/2023 1:00	12/27/2023 2:00	972.2
12/27/2023 2:00	12/27/2023 3:00	966.6
12/27/2023 3:00	12/27/2023 4:00	986.1
12/27/2023 4:00	12/27/2023 5:00	1003.9
12/27/2023 5:00	12/27/2023 6:00	1070.5
12/27/2023 6:00	12/27/2023 7:00	1148.6
12/27/2023 7:00	12/27/2023 8:00	1228.5
12/27/2023 8:00	12/27/2023 9:00	1314.4
12/27/2023 9:00	12/27/2023 10:00	1366.3
12/27/2023 10:00	12/27/2023 11:00	1401.4
12/27/2023 11:00	12/27/2023 12:00	1413.0
12/27/2023 12:00	12/27/2023 13:00	1411.8
12/27/2023 13:00	12/27/2023 14:00	1392.2
12/27/2023 14:00	12/27/2023 15:00	1382.0
12/27/2023 15:00	12/27/2023 16:00	1384.5
12/27/2023 16:00	12/27/2023 17:00	1441.3
12/27/2023 17:00	12/27/2023 18:00	1492.6
12/27/2023 18:00	12/27/2023 19:00	1456.4
12/27/2023 19:00	12/27/2023 20:00	1424.3
12/27/2023 20:00	12/27/2023 21:00	1400.1
12/27/2023 21:00	12/27/2023 22:00	1358.8
12/27/2023 22:00	12/27/2023 23:00	1291.4
12/27/2023 23:00	12/28/2023 0:00	1253.4
12/28/2023 0:00	12/28/2023 1:00	1235.3
12/28/2023 1:00	12/28/2023 2:00	1235.8
12/28/2023 2:00	12/28/2023 3:00	1227.3
12/28/2023 3:00	12/28/2023 4:00	1215.9
12/28/2023 4:00	12/28/2023 5:00	1219.5
12/28/2023 5:00	12/28/2023 6:00	1227.2
12/28/2023 6:00	12/28/2023 7:00	1322.4
12/28/2023 7:00	12/28/2023 8:00	1387.3
12/28/2023 8:00	12/28/2023 9:00	1410.8
12/28/2023 9:00	12/28/2023 10:00	1457.2
12/28/2023 10:00	12/28/2023 11:00	1469.0
12/28/2023 11:00	12/28/2023 12:00	1472.0
12/28/2023 12:00	12/28/2023 13:00	1474.2
12/28/2023 13:00	12/28/2023 14:00	1432.6
12/28/2023 14:00	12/28/2023 15:00	1409.1
12/28/2023 15:00	12/28/2023 16:00	1413.7
12/28/2023 16:00	12/28/2023 17:00	1464.9
12/28/2023 17:00	12/28/2023 18:00	1504.8
12/28/2023 18:00	12/28/2023 19:00	1429.0
12/28/2023 19:00	12/28/2023 20:00	1376.2
12/28/2023 20:00	12/28/2023 21:00	1346.0
12/28/2023 21:00	12/28/2023 22:00	1269.0
12/28/2023 22:00	12/28/2023 23:00	1177.9

Start Time	End Time	ANL_MW
12/28/2023 23:00	12/29/2023 0:00	1140.4
12/29/2023 0:00	12/29/2023 1:00	1085.7
12/29/2023 1:00	12/29/2023 2:00	1031.1
12/29/2023 2:00	12/29/2023 3:00	1003.7
12/29/2023 3:00	12/29/2023 4:00	989.9
12/29/2023 4:00	12/29/2023 5:00	988.1
12/29/2023 5:00	12/29/2023 6:00	1033.4
12/29/2023 6:00	12/29/2023 7:00	1124.4
12/29/2023 7:00	12/29/2023 8:00	1238.3
12/29/2023 8:00	12/29/2023 9:00	1367.3
12/29/2023 9:00	12/29/2023 10:00	1431.0
12/29/2023 10:00	12/29/2023 11:00	1484.9
12/29/2023 11:00	12/29/2023 12:00	1488.8
12/29/2023 12:00	12/29/2023 13:00	1546.2
12/29/2023 13:00	12/29/2023 14:00	1489.0
12/29/2023 14:00	12/29/2023 15:00	1460.9
12/29/2023 15:00	12/29/2023 16:00	1494.9
12/29/2023 16:00	12/29/2023 17:00	1554.9
12/29/2023 17:00	12/29/2023 18:00	1541.7
12/29/2023 18:00	12/29/2023 19:00	1521.8
12/29/2023 19:00	12/29/2023 20:00	1495.1
12/29/2023 20:00	12/29/2023 21:00	1486.5
12/29/2023 21:00	12/29/2023 22:00	1447.0
12/29/2023 22:00	12/29/2023 23:00	1405.6
12/29/2023 23:00	12/30/2023 0:00	1403.8
12/30/2023 0:00	12/30/2023 1:00	1352.2
12/30/2023 1:00	12/30/2023 2:00	1333.0
12/30/2023 2:00	12/30/2023 3:00	1303.5
12/30/2023 3:00	12/30/2023 4:00	1296.2
12/30/2023 4:00	12/30/2023 5:00	1305.2
12/30/2023 5:00	12/30/2023 6:00	1326.3
12/30/2023 6:00	12/30/2023 7:00	1379.0
12/30/2023 7:00	12/30/2023 8:00	1404.4
12/30/2023 8:00	12/30/2023 9:00	1403.2
12/30/2023 9:00	12/30/2023 10:00	1455.3
12/30/2023 10:00	12/30/2023 11:00	1485.8
12/30/2023 11:00	12/30/2023 12:00	1509.5
12/30/2023 12:00	12/30/2023 13:00	1529.3
12/30/2023 13:00	12/30/2023 14:00	1523.4
12/30/2023 14:00	12/30/2023 15:00	1507.0
12/30/2023 15:00	12/30/2023 16:00	1508.8
12/30/2023 16:00	12/30/2023 17:00	1569.6
12/30/2023 17:00	12/30/2023 18:00	1620.3
12/30/2023 18:00	12/30/2023 19:00	1581.1
12/30/2023 19:00	12/30/2023 20:00	1547.9
12/30/2023 20:00	12/30/2023 21:00	1513.9
12/30/2023 21:00	12/30/2023 22:00	1515.5
12/30/2023 22:00	12/30/2023 23:00	1473.2
12/30/2023 23:00	12/31/2023 0:00	1432.4
12/31/2023 0:00	12/31/2023 1:00	1352.9
12/31/2023 1:00	12/31/2023 2:00	1299.4
12/31/2023 2:00	12/31/2023 3:00	1253.0
12/31/2023 3:00	12/31/2023 4:00	1218.4
12/31/2023 4:00	12/31/2023 5:00	1216.3
12/31/2023 5:00	12/31/2023 6:00	1235.7
12/31/2023 6:00	12/31/2023 7:00	1277.1
12/31/2023 7:00	12/31/2023 8:00	1321.1
12/31/2023 8:00	12/31/2023 9:00	1401.7
12/31/2023 9:00	12/31/2023 10:00	1471.5
12/31/2023 10:00	12/31/2023 11:00	1486.1
12/31/2023 11:00	12/31/2023 12:00	1451.5
12/31/2023 12:00	12/31/2023 13:00	1471.2
12/31/2023 13:00	12/31/2023 14:00	1486.3
12/31/2023 14:00	12/31/2023 15:00	1499.1
12/31/2023 15:00	12/31/2023 16:00	1518.3
12/31/2023 16:00	12/31/2023 17:00	1531.5
12/31/2023 17:00	12/31/2023 18:00	1593.0
12/31/2023 18:00	12/31/2023 19:00	1537.3
12/31/2023 19:00	12/31/2023 20:00	1487.2
12/31/2023 20:00	12/31/2023 21:00	1489.0

Start Time	End Time	ANL_MW
12/31/2023 21:00	12/31/2023 22:00	1446.2
12/31/2023 22:00	12/31/2023 23:00	1461.6
12/31/2023 23:00	1/1/2024 0:00	1443.1

Request DR-10:

Please identify the similarities and differences between the calculation of ELCC for run-of-river hydro, Wreck Cove, Maritime Link NS Block (main and supplemental portions), and Maritime Link surplus/market energy resources.

Response DR-10:

For run-of-river hydro and Wreck Cove the inputs that vary by unit are:

- Daily MWh availability
- Maximum output & sustaining peaking limits
- Minimum output

In E3's ELCC study, run-of-river generation is modelled using historical hydro generation data which captures the annual variability in hydro generation due to differences in precipitation. RECAP dispatches water within a day, week, month, or other defined period to maximize reliability, subject to operating characteristics such as min output, max output, and/or sustained peaking limits.[1]

Run-of-river hydro are treated as dispatchable hydro and modeled similar to thermal resources because they are deemed to have sufficient pondage such that they are equivalent to firm resources from a reliability perspective.[2]

Wreck Cove was modelled as a dispatch-limited hydro resource in the E3 ELCC study. To maximize the reliability value of a hydro resource with limited daily energy generation, Wreck Cove is dispatched into the highest net load hours, subject to maximum output constraints[1] and

[1] Planning Reserve Margin and Capacity Value Study, July 2019, Section 2.2.3
[2] Planning Reserve Margin and Capacity Value Study, July 2019, Section 3.3.2

using a daily "hydro budget" of 500, 800, or 1,100 MWh depending on month of year which the model dispatches into the highest net load hours.[2]

The NS Block of energy delivered to NS over the Maritime Link is a firm energy import and treated as such for ELCC. The ELCC for the basic block is mainly influenced by the assumed forced outage rate of the generation (Muskrat Falls) and transmission (Labrador Island Link and Maritime Link) systems which combine to deliver the energy to Nova Scotia.[3] While the Supplemental energy delivered to NS over the Maritime Link is also a firm import, it is delivered between the hours of 11 pm and 7 am which does not coincide with NS Power's hours of greatest loss of load probability. Given the timing of its delivery, the ELCC for supplemental energy is assumed to be zero. The surplus/market energy is a non-firm import and as such the ELCC is assumed to be zero.

[3] Planning Reserve Margin and Capacity Value Study, July 2019, Section 3.3.5

NON-CONFIDENTIAL

Request DR-11:

Please provide the estimated ELCC for what NS Power has referenced as intermediate resources in its proposal.

(a) Please provide information on the effect of placing units in cold start status on each unit's ELCC. For example, does NS Power anticipate that some reliability events may develop more quickly than such units can be placed into service?

Response DR-11:

Please refer to IG DR-5(b) and PHP DR-3 for the estimated ELCC of intermediate generation units.

(a) Currently only one unit, Lingan 2, has been placed into cold start status and no change in the units' ELCC has been assumed. NS Power continues to follow its asset management process to guide investment and maintenance decisions, such that Lingan 2 will operate reliably when recalled from cold reserve.

NON-CONFIDENTIAL

Request DR-12:

Please provide the hourly operating cost, including fuel, purchased power, and any other relevant variable costs (transmission fees, environmental control inputs, disposal costs, etc.) for the 2019-2023 time period. Please provide the calculation in Excel format with formulas intact and including original source data for all inputs and assumptions.

Response DR-12:

The company does not track actual cost data on an hourly period and only tracks on a monthly basis. Actual costs are provided in the monthly and quarterly FAM reports.

REDACTED

Request DR-13:

Please provide the following hourly data for the 2019-2023 time period:

(a) System load, both above-the-line and below-the line.

(b) Marginal costs, both above-the-line and below-the line.

(c) Day-ahead and real-time power prices at market nodes that NS Power uses for trading.

(d) Unit dispatch for each NS Power-owned unit.

(e) Unit status for each NS Power-owned unit (e.g., committed, derated by X amount, offline, curtailed by X amount, etc.)

Response DR-13:

(a) Hourly system load, including hourly below-the-line load, is included in the response to CA DR-58.

(b) Please refer to the table below for average marginal costs by month. These costs are also included in the appropriate years Short Run Marginal Cost (SRMS) Test to Rates Reports.

REDACTED

2019-2023 Average Marginal Cost in MWh

Months	Average MC				
	2019	2020	2021	2022	2023
Jan	[redacted]				
Feb					
Mar					
Apr					
May					
Jun					
Jul					
Aug					
Sep					
Oct					
Nov					
Dec					
Average MC (1)	$54.23	$44.34	$57.36	$124.88	$70.79

(1)

2019	M09701: P-878 - Nova Scotia Power Inc. - 2019 Short Run Marginal Cost (SRMC) Test to Rates Report
2020	M10098: P-878 - Nova Scotia Power Inc. - 2020 Short Run Marginal Cost (SRMC) Test to Rates Report
2021	M10566: P-878 - Nova Scotia Power Inc. - 2021 Short Run Marginal Cost (SRMC) Test to Rates Report
2022	M11110: P-878-Nova Scotia Power Inc: 2022 Short Run Marginal Cost (SRMC)Test to Rates Report
2023	M11683: Nova Scotia Power Inc: 2023 Short Run Marginal Cost (SRMC) Test to Rates Report

(c) Please refer to Attachment 1.

(d) Please refer to Confidential Attachment 2.

(e) Please refer to Confidential Attachment 3 for thermal unit and Wreck Cove unit status. Small hydro unit status not readily available. Unit status acronyms and corresponding descriptions are shown in table below.

Acronym	Description
ABNO	available but not operating
ABNO(SC)	available and operating in synchronous condenser mode

REDACTED

Acronym	Description
ABNO(FD)	available but not operating with forced derate
ABNO(SD)	available but not operating with scheduled derate
FEMO	forced extension of maintenance outage
FEPO	forced extension of planned outage
FO Deferrable	forced outage deferrable from 10 minutes to next weekend
FO Immediately Deferrable	forced outage required within 10 minutes
FO Starting	forced outage due to starting failure
FO Sudden	forced outage due to unit trip
MO	maintenance outage
O(FD)	operating with forced derate
O(SD)	operating with scheduled derate
Operating	operating
PO	planned outage
PEMO	planned extension of maintenance outage
PEPO	planned extension of planned outage

1

COSS CA DR-13 Attachment 1 has been filed electronically.

COSS CA DR-13 Confidential Attachment 2 has been removed due to confidentiality.

COSS CA DR-13 Confidential Attachment 3 has been removed due to confidentiality.

NON-CONFIDENTIAL

Request DR-14:

Please provide current transmission costs associated with the extra-high voltage transmission system (EHV, 138 kV and greater) and the high voltage transmission system (HV, 69 kV).

(a) Is the NS Power system best characterized as a mesh or radial transmission system? If the answer is both, please provide the estimated portions of EHV and HV transmission that fall into each category.

(b) Do the HV transmission lines provide complementary or incremental services to the EHV system? For example, are there significant portions of the EHV system that receive power stepped-up from HV lines?

Response DR-14:

In 2023, $7,457,524 was spent on 69 kV lines and $24,058,687 was spent on 138 kV or greater lines.

(a) NS Power system is characterized as both a mesh and radial transmission system.

- HV (69kV): 27% Mesh, 73% Radial
- EHV (138kV and greater): 91% Mesh, 9% Radial

(b) Approximately 25 percent of NS Power's load capacity is supplied by the Company's HV transmission system. Attachment 1 is a list of the generator types that are transmitted through our HV transmission system.

List	Generator Type	Name and Substation	Capacity (MW)	Transmission or Distribution
1	Thermal	TUC 1 - 91H	83 MW	69 KV
2	Thermal	TUC 2 - 91H	97 MW	69 KV
3	CT	VJ 1 - 83S	28 MW	69 KV
4	CT	VJ 2 - 83S	28MW	69 KV
5	CT	TUSKET – 10W	28.4 MW	69 KV
6	Hydro	AVN 1 – 1V	4 MW	Distr
7	Hydro	AVN 2 – 2V	5 MW	Distr
8	Hydro	Hells Gate 1 – 3V	5.1 MW	Distr
9	Hydro	Hells Gate 2 – 3V	5.0 MW	Distr
10	Hydro	White Rock – 4V	4 MW	Distr
11	Hydro	Lumsden – 5V	3.5 MW	69 KV
12	Hydro	Hollow Bridge - 6V	6.3 MW	69 KV
13	Hydro	Methals – 7V	3.8 MW	69 KV
14	Hydro	Nictaux - 10V	8.5 MW	69 KV
15	Hydro	Paradise – 11V	6.2 MW	69 KV
16	Hydro	Lequile – 12V	13 MW	69 KV
17	Hydro	Gulch – 13V	7.5 MW	69 KV
18	Hydro	Ridge – 14V	4 MW	69 KV
19	Hydro	Sissiboo – 15V	6.5 MW	69 KV
20	Hydro	Weymouth 1 – 16V	10 MW	69 KV
21	Hydro	Weymouth 1 – 16V	10 MW	69 KV
22	Hydro	Annapolis – 81V	20 MW	69 KV
23	Hydro	Fourth lake – 91V	3 MW	69 KV
24	Hydro	Upper Lake Falls 1 – 1W	3 MW	69 KV
25	Hydro	Upper Lake Falls 2 – 1W	3 MW	69 KV
26	Hydro	Lower lake Falls 3 – 2W	3.7 MW	69 KV
27	Hydro	Lower Lake Falls 4 – 2W	3.7 MW	69 KV
28	Hydro	Big Falls 5 – 3W	5.4 MW	69 KV

29	Hydro	Big Falls 6 – 3W	5.4 MW	69 KV
30	Hydro	Lower Great Brook 7 – 4W	2.3 MW	69 KV
31	Hydro	Lower Great Brook 8 – 4W	2.3 MW	69 KV
32	Hydro	Deep Brook 9 – 5W	4.7 MW	69 KV
33	Hydro	Deep Brook 10 – 5W	4.8 MW	69 KV
34	Hydro	Cowie Falls 11 – 6W	3.9 MW	69 KV
35	Hydro	Cowie Falls 12 – 6W	3.7 MW	69 KV
36	Hydro	Salmon River – 8V	-	Distr
37	Hydro	St. Croix - 9V	-	Distr
38	Hydro	Malay Falls 1 – 96H	2.3 MW	69 KV
39	Hydro	Malay Falls 2 – 96H	2.5 MW	69 KV
40	Hydro	Malay Falls 3 – 96H	2.3 MW	69 KV
41	Hydro	Malay Falls 4 – 95H	1 MW	69 KV
42	Hydro	Malay Falls 5 – 95H	1 MW	69 KV
43	Hydro	Malay Falls 6 – 95H	1 MW	69 KV
44	Hydro	Dickie Brook 1 – 24C	1.5 MW	69 KV
45	Hydro	Dickie Brook 2 – 24C	1.6 MW	69 KV
46	Wind	Canso (Sable) 19C	13.8 MW	69KV
47	Wind	Bear Head 120C	22.6 MW	Distr – 138KV
48	Wind	Nuttby Mountain 89N	49.5 MW	69 KV
49	Wind	Lingan 109S	14 MW	69 KV
50	Wind	Gulliver's Cove 98V	30 MW	69 KV
51	Wind	Ellershouse 102V	23.5 MW	69 KV
52	Wind	Pubnico Pt. 106W	30.6 MW	69 KV

NON-CONFIDENTIAL

Request DR-15:

Please identify any generators that are connected to load with voltage at or below 69 kV and provide the following:

(a) Line voltage

(b) Length of line from the generator to a substation connecting to a voltage above 69 Kv

(c) Length of line from the generator to load exceeding the generator's capacity

(d) Whether the line is included in generation, transmission or distribution plant

Response DR-15:

Please refer to Attachment 1 which provides a list of transmission and distribution-connected generation at or below 69 kV.

(a) Line voltage is provided for the transmission or distribution line which connects each generating facility.

(b) For transmission, the table includes the lengths of radial lines between the generating facility substation and the point of interconnection. Where the voltage is stepped down from 69 kV, it also includes the radial line between the step-down transformer and the generating facility. It is not practical to track the line length back to the 138 kV transmission system as the majority of the Valley and Western Region generation is connected at 69 kV. Instead, the line lengths are tracked back to the 69 kV network connection point.

For distribution, the length of distribution line between the generating facility and the substation is provided. The substation supply voltage is also indicated.

(c) For transmission, the generator's capacity is exceeded by customer load where the generating facility radial line connects to the transmission system (i.e. the point of interconnection).

Most distribution generation interconnections are limited such that the aggregate generation in a distribution zone does not exceed the minimum load, where a distribution zone is defined as all feeders emanating from a single substation transformer. By this design, the generation capacity should always be exceeded by customer load where the distribution feeder connects to the low-voltage bus of the substation transformer. The exception to this is when distribution-connected generation has been studied for transmission system impacts and has been approved to export onto the transmission system – these facilities have been included in the Transmission tab of Attachment 1.

It is not practical to break this down further as the customer load is a dynamic value. The point on the transmission or distribution line at which local generation capacity exceeds customer load changes for every hour of the year.

(d) All the generating facilities listed in the Distribution tab are connected via distribution plant.

For the Transmission tab, some radial 12.5kV or 23kV lines are exclusively connecting generation facilities and would still be considered transmission plant. The one exception on this list is 120C-Point Tupper Wind, which is connected via distribution plant, but was studied as a transmission generating facility, which is why it was included in the Transmission tab.

COSS CA DR-15 Attachment 1 Page 1 of 3

Name	Region	Owner	Type	Capacity (MW)	Line Voltage (kV)	<69kV Radial Line	Length (km)	69kV Radial Line	Length (km)	Supplies Local Distribution?
1V-Avon 1	Valley	NSPI	Hydro	3.75	25	-	0	L-5015	19	1V-413
2V-Avon 2	Valley	NSPI	Hydro	3	25	L-4038	1.5			-
3V-Hells Gate	Valley	NSPI	Hydro	4.2	23	-	0	L-5035	0.8	-
	Valley	NSPI	Hydro	5.1						-
4V-White Rock	Valley	NSPI	Hydro	3.2	23	L-4049	3.6			-
5V-Lumsden Hydro	Valley	NSPI	Hydro	2.8	69	-	-	L-5019	6.5	-
6V-Hollow Bridge	Valley	NSPI	Hydro	5.3	69	-	-			-
7V-Methals Hydro	Valley	NSPI	Hydro	3.4	69	-	-	L-5020	9.2	-
8V-Upper St. Croix	Valley	IPP	Hydro	2	23	L-4047 / L-4046	20.4	-	0	-
9V-St. Croix Hydro	Valley	IPP	Hydro	3	23	L-4045	1.3	-	0	-
10V-Nictaux Hydro	Valley	NSPI	Hydro	8.5	69	-	-	L-5025	0.1	-
11V-Paradise Hydro	Valley	NSPI	Hydro	3.6	69	-	-	L-5025	0.1	-
12V-Lequille Hydro	Valley	NSPI	Hydro	11.2	69	-	-	L-5026	0.1	12V-302, 12V-303, 12V-304
13V-Gulch Hydro	Valley	NSPI	Hydro	6	69	-	-	L-5026	0.1	-
14V-Ridge Hydro	Valley	NSPI	Hydro	4	69	-	-	L-5532	0.1	50kVA local distribution
15V-Sissiboo hydro	Valley	NSPI	Hydro	6	69	-	-	L-5531	0.1	-
16V-Weymouth Hydro	Valley	NSPI	Hydro	9	69	-	-	L-5538	6.9	16V-314
	Valley	NSPI	Hydro	9						16V-315
81V-Annapolis Royal Hydro *	Valley	NSPI	Hydro	0	69	-	-	L-5056	3.9	-
91V-Fourth Lake Hydro	Valley	NSPI	Hydro	3	69	-	-	L-5050	16.3	-
98V-Gullivers Cove	Valley	NSPI	Wind	30	69	-	-	L-5581	16.6	-
102V-Ellershouse Wind Farm	Valley	IPP	Wind	23.5	69			L-5060	2.8	-
1W-Upper Lake Falls No. 1 Hydro	Western	NSPI	Hydro	2.7	69	-	-	L-5544	12.5	-
	Western	NSPI	Hydro	2.7		-	-			-
2W-Lower Lake Falls No. 2 Hydro	Western	NSPI	Hydro	3.7	69	-	-			-
	Western	NSPI	Hydro	3.7		-	-			-
3W-Big Falls No. 3 Hydro	Western	NSPI	Hydro	4.5	69	-	-			-
	Western	NSPI	Hydro	4.5		-	-			-
4W-Lower Great Brook No. 4 Hydro	Western	NSPI	Hydro	2.3	69	-	-	L-5541A	0.5	50kVA local distribution
	Western	NSPI	Hydro	2.3		-	-			
5W-Deep Brook No. 5 Hydro	Western	NSPI	Hydro	4.5	69	-	-	L-5540b	1.8	-
	Western	NSPI	Hydro	4.5		-	-			-
6W-Cowie Falls No. 6 Hydro	Western	NSPI	Hydro	3.6	69	-	-	L-5540a	0.5	-
	Western	NSPI	Hydro	3.6		-	-			-
9W-Tusket Sw. Stn. & Hydro	Western	NSPI	Hydro	0.7	69	-	0.1	-	0	-
	Western	NSPI	Hydro	0.7						-
	Western	NSPI	Hydro	0.7						-
10W-Tusket Gas Turbine	Western	NSPI	Thermal	30	69	-	-	L-5537	3.3	-
106W-Pubnico Point Wind Farm	Western	IPP	Wind	30	69	-	-	L-5027	0.6	-
92H-Tidewater	Halifax	NSPI	Hydro	2.5	12.5	-	0.1	-	-	
	Halifax	NSPI	Hydro	2.8		-	0.1	-	-	
93H-Sandy Lake	Halifax	NSPI	Hydro	2	12.5	L-3202	3.1	-	-	
	Halifax	NSPI	Hydro	2				-	-	
94H-Mill Lake	Halifax	NSPI	Hydro	1.6	12.5	L-3202	3.1	-	-	
	Halifax	NSPI	Hydro	1.6				-	-	
95H-Malay Falls Hydro	Halifax	NSPI	Hydro	1.2	69	-	-	L-5510	38	Some local distribution - fused
	Halifax	NSPI	Hydro	1.2		-	-			
	Halifax	NSPI	Hydro	1.2		-	-			
96H-Ruth Falls Hydro	Halifax	NSPI	Hydro	2	69	-	-	L-5512	6.5	-
	Halifax	NSPI	Hydro	2		-	-			-
	Halifax	NSPI	Hydro	2		-	-			-
91H-Tufts Cove	Halifax	NSPI	Thermal	100	69	-	-	-	0.1	-
	Halifax	NSPI	Thermal	100		-	-	-	0.1	-
89N-Nuttby Wind Farm	Central	IPP	Wind	50	69	-	-	L-5040 tap	0.3	-
19C-Canso Town	Canso	IPP	Wind	13.8	69			L-5027 tap	0.2	-
24C-Dickie Brook Hydro	Canso	NSPI	Hydro	1.2	69	-	-	L-5027 tap	0.1	-
	Canso	NSPI	Hydro	1.2		-	-			-
120C-Point Tupper (Bear Head)	Canso	IPP/NSPI	Wind	22	25	1C-413	2.7	-	-	1C-413

Project Name	Region	Owner	Type	Capacity (MW)	Distribution Line Voltage (kV)	Distance from Substation (km)	Substation Supply Voltage (kV)
Point Tupper	East	IPP	Wind	0.8	25	2.5	138
Agricultural Campus	Central	IPP	Biomass	1	25	9.2	138
Kemptown	Central	IPP	Wind	4.99	25	27.7	138
Creignish Rear	East	IPP	Wind	1.99	25	16.6	138
Point Aconi	East	IPP	Wind	2.35	25	14.1	69
Hillside	East	IPP	Wind	4	12.5	11.7	69
Maryvale	East	IPP	Wind	6	25	20.1	138
Fairmount	East	IPP	Wind	4.6	25	12.5	138
TE Boyle Farm Forestry II	East	IPP	Biogas	0.5	25	29.0	138
Marshville (River John)	Central	IPP	Wind	0.8	12.5	19.3	69
Spiddle Hill II	Central	IPP	Wind	1.6	12.5	17.2	69
Springhill	East	IPP	Wind	2.1	12.5	8.3	69
Barrachois	East	IPP	Wind	4	12.5	19.4	69
Granville Ferry	West	IPP	Wind	2	12.5	13.7	69
Greenfield	Central	IPP	Wind	3.2	25	15.2	69
Truro Heights	Central	IPP	Wind	4	25	8.4	69
Lingan	East	IPP	Wind	2.3	12.5	7.7	69
Gays River	Central	IPP	Biogas	0.5	12.5	12.0	69
Hassets	West	IPP	Biomass	0.3	12.5	5.4	69
Brenton	West	IPP	Wind	1.99	12.5	12.4	69
Walton	Central	IPP	Wind	2	25	23.0	69
Old Sambro Rd./Ketch Harbour (Harrietsfield)	Central	IPP	Wind	4.6	12.5	12.4	69
Isle Madame	East	IPP	Wind	1.99	25	26.8	138
Amherst	Central	IPP	Wind	6	25	5.2	138
Doctors Cove	West	IPP	Wind	3.2	12.5	5.5	69
Aulds Mountain II	East	IPP	Wind	1.6	25	35.2	69
Aulds Mountain	East	IPP	Wind	4.6	25	34.3	69
Avondale	East	IPP	Wind	1.6	25	40.8	69
Brooklyn Wind Project	West	IPP	Wind	3.6	25	13.4	69
Fitzpatrick Mountain	East	IPP	Wind	1.4	25	17.2	69
Fitzpatrick Mountain	East	IPP	Wind	1.6	25	16.7	69
Marion Bridge/Bateston	East	IPP	Wind	2.3	25	18.0	69
Dunvegan	East	IPP	Wind	1.99	25	16.8	69
Forbes Lake	East	IPP	Wind	6.4	25	12.2	69
Limerock	East	IPP	Wind	4.99	25	17.9	69
Irish Mountain	East	IPP	Wind	1.99	25	9.5	69
Forbes Lake	East	IPP	Wind	6.4	25	12.2	69
Limerock	East	IPP	Wind	4.99	25	17.9	69
Irish Mountain	East	IPP	Wind	1.99	25	9.5	69
South Cape Mabou	East	IPP	Wind	1.7	25	35.3	138
Morgan Falls	West	IPP	Hydro	0.85	25	36.2	69
Digby	West	IPP	Wind	0.8	12.5	9.8	69
Tiverton (Digby Neck)	West	IPP	Wind	0.9	25	44.2	69
Three Mile Plains	Central	IPP	Wind	6	25	5.2	69

Project Name	Region	Owner	Type	Capacity (MW)	Distribution Line Voltage (kV)	Distance from Substation (km)	Substation Supply Voltage (kV)
Gardiner Mines 1	East	IPP	Wind	3.1	12.5	9.3	69
Port Caledonia (Donkin)	East	IPP	Wind	0.8	12.5	11.3	69
Glace Bay	East	IPP	Wind	0.8	12.5	4.6	69
New Victoria	East	IPP	Wind	2.35	12.5	13.8	69
Hardwood Lands	Central	IPP	Wind	6	25	29.6	138
Nine Mile River	Central	IPP	Wind	4	25	21.3	138
Courthouse Hill Farm	Central	IPP	Biogas	0.5	25	28.5	138
Gardiner Mines 2	East	IPP	Wind	2.3	12.5	5.3	69
Kaizer Meadow	Central	IPP	Wind	2	12.5	21.8	69
Gaetz Brook	Central	IPP	Wind	2.3	12.5	6.6	138
Comeaus Hill	West	IPP	Wind	1.99	12.5	20.7	69
Black Pond Rd.	West	IPP	Wind	2	12.5	19.0	69
Comeaus Hill	West	IPP	Wind	1.99	12.5	20.7	69
Black Pond Rd.	West	IPP	Wind	2	12.5	19.0	69
Watt Section	Central	IPP	Wind	1.5	25	7.2	69
Wedgeport	West	IPP	Wind	1.6	12.5	16.6	69
Grand Etang/Cheticamp	East	IPP	Wind	0.9	12.5	8.5	69
Terance Bay	Central	IPP	Wind	7.05	25	25.0	138
Baddeck	East	IPP	Wind	1.7	12.5	6.9	138
Porters Lake	Central	IPP	Wind	3.2	12.5	5.4	138
Fall River Hydro	Central	NSPI	Hydro	0.5	25	7.8	138
Middle Sackville	Central	IPP	Biomass	3.1	25	0.7	138
Highland Energy	Central	IPP	Biogas	2.1	25	9.4	138
Lucasville	Central	IPP	Wind	8	25	22.5	138
Pockwock	Central	IPP	Wind	10	25	14.2	138

Request DR-16:

Please explain how NS Power's substation plant is functionalized between EHV, HV, and distribution, including addressing the following points.

(a) Does NS Power maintain separate plant accounts for each substation or more generally by transmission and distribution?

(b) How are substations with secondary or tertiary voltage below 69 kV functionalized?

(c) How are transmission substation costs functionalized between voltage levels?

Response DR-16:

Broadly speaking, substations fall into five groups on NS Power's grid:

1. Generation substations stepping power up from generation to transmission.

2. Transmission substations with both primary and secondary transmission voltages of 69 kV or above.

3. Hybrid transmission substations which contain auto-transformers stepping power down from 138kV to 69kV transmission voltage, while also supplying 25kV or 12.5kV distribution voltages via the transformer tertiary winding.

4. Bulk power substations stepping power down exclusively from 138kV or 69kV transmission to 25kV, 12.5kV, or 4.2kV distribution.

5. Distribution substations, referred to in the COS as general substations with a high side voltage level below 69 kV.

NON-CONFIDENTIAL

In determining capital investment by functions, NS Power follows the FERC Uniform System of Accounts supported by more detailed accounting activities at a project code level. Capital projects are assigned a functional class at activation based upon the scope of the work. To the extent possible, NS Power aligns the design of its project codes with the function served by the investment. In general, NS Power is able to accurately track investment and costs of purely transmission and distribution substations on an asset class basis as all of their costs are properly recorded under the transmission service area. However, there are challenges with the tracking of investment in hybrid transmission and bulk power substations.

NS Power's practice has been to record investment in bulk power and hybrid substations under transmission.

Out of 154 substations recorded in the transmission account, 13 are pure transmission substations, 2 are hybrid comprised of transmission and bulk power transformers, 21 have a mix of generation, transmission and bulk power and the remaining 118 substations are bulk power substations. The Company does not maintain a separate record of investments by the above types of substations in its financial accounting records. To satisfy industry principles of good COSS design, the Company adjusts, or re-functionalizes, its substation investment records by transferring the estimated amount of the bulk power-related investment, recorded under transmission, to distribution.

NS Power uses a pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets. As such, NS Power is unable to provide the capital costs by the EHV, HV and Bulk Power substations using information from the Company's accounting system. Instead, an examination of historical data would be required to estimate the approximate value in rate base associated with the above substations.

(a) NS Power maintains separate plant accounts for substations falling into transmission and distribution service areas on asset pool basis.

(b) NS Power uses either hybrid or bulk power substations to step power down from a primary transmission voltage of either 138 kV or 69 kV to a secondary distribution voltage of 25 kV, 12.5 kV or 4.2 kV. NS Power also has substations which utilize the delta tertiary winding of a 138kV to 69kV transmission auto-transformer to supply distribution feeder load (i.e., 1N-T1, 1N-T4). In some cases, a delta tertiary winding is available for use as a contingency supply, as is the case with 4C-T2. This tertiary can be used to supply feeder load if the 138kV-25kV transformer[1] 4C-T63 were to fail. Where the delta tertiary winding is used to supply a distribution circuit, a grounding transformer is also used.

(c) There is no explicit sub-functionalization of substations between EHV and HV levels in the COSS. Rather, total investment in transmission inclusive of all other equipment such poles, wires, land, buildings etc. are broken out by EHV and HV related categories in the proportion of 3 to 1. This proportion was originally developed for the purposes of the ELI 2P-RTP Rate in the 2007 GRA. This ratio was confirmed by NS Power for the purposes of the COSS model used in the 2022-2024 GRA.

[1] Years ago, a use of the tertiary voltage was seen as a good way to reduce costs and avoid purchasing an additional distribution supply transformer. This approach introduces new challenges since loss of a unit requires two mobile transformers if there is no contingency 69kV or distribution voltage contingency supply available.

Request DR-17:

Please list each distribution system region, provide its load, and identify its connection(s) to the transmission system, by voltage level. For example, distribution region X serving approximately 50 MW is directly connected to both 69 kV and 138 kV transmission voltage transmission lines.

(a) Please update the following table from the 2013 proceeding.

Bulk Power Substation Capacity

	Transformer Capacity			
High-side Voltage	**Direct to Distribution**	**Tertiary Voltage**	**Total**	**Percentage**
69 kV	**1,459**	**–**	**1,459**	**44%**
138 kV	**1,154**	**100**	**1,255**	**37%**
345 kV	**–**	**637**	**637**	**19%**
Total	**2,613**	**737**	**3,350**	

Response DR-17:

(a) The following table provides a list of each distribution region with the transformer nameplate capacity and peak load by transmission supply voltage. The transmission supply voltage refers to the high-side voltage connection of the transformer. The peak load is the value recorded in 2023 (please refer to CA DR-39).

Region	Transmission Supply Voltage (kV)	Transformer Nameplate Capacity (MW)	Peak Load (MW)
Canso	69	59	36
	138	183	113
Halifax	69	350	221
	138	945	731
Northern	69	277	218
	138	163	109
Sydney	69	377	213
	138	49	34
Valley	69	306	256
	138	114	85
Western	69	313	250
	138	25	22

Please refer to the following update to the transformer capacity table. There are no distribution customers supplied from 230 kV or 345 kV transformers. The value indicated for 345 kV supplied via tertiary in the 2013 table is referring to reactors which are connected at distribution voltage levels. These are not distribution plant, so this line has been removed.

High-side Voltage	Direct to Distribution (MW)	Tertiary Voltage (kV)	Total (MW)	Percentage
69 kV	1681		1681	53%
138 kV	1407	71	1478	47%
Total	3088	71	3158	

Request DR-18:

Please provide NS Power's transmission substation investment by transmission voltage. If not available, please provide typical costs for substation transformers of the sizes and voltages used by NS Power.

Response DR-18:

NS Power does not track transmission substation investment by transmission voltage. NS Power uses pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets. As such, NS Power is unable to provide the net book value of the company's investment in transmission substations by transmission voltage using information from the Company's accounting system. Instead, an examination of historical data would be required to estimate the approximate value in rate base associated with the transmission substation investment by transmission voltage.

The below table includes estimated costs for transformers by size and voltage. Estimates are based on the Company's recent transformer purchases and are reflective of the total purchase cost from the manufacturer, which is inclusive of freight, assembly and testing and commissioning costs among others.

TX Details	**Type**	**Distribution**				**Transmission**
	Capacity Class	**Small**		**Medium**	**Large**	**Large Auto**
	Capacity [MVA]	7.5/10/12.5		15/20/25	25/33/42	56/75/93
	HV Voltage [kV]	69		138	138	138
	LV Voltage [kV]	26.4	13.2	26.4	26.4	69
Cost		**$1,600,000**	**$1,300,000**	**$2,200,000**	**$2,500,000**	**$4,600,000**

Request DR-19:

Please identify all occasions in the past 15 years in which NS Power has either retired a lower-voltage transmission line because a higher-voltage line had been extended, or converted a lower-voltage transmission line to a higher voltage to increase capacity.

Response DR-19:

NS Power is not aware of any instances in the past 15 years where a transmission line has been retired due to a higher voltage line being built or extended or a lower voltage transmission line be increased to a higher voltage.

Request DR-20:

In 2013, NS Power witness Whalen's evidence stated that "only about 25% of transmission investment in the last ten years has been for the purpose of accommodating load growth or new generation. The balance has been for the purpose of replacing or improving the performance of existing assets; i.e. [energy-classified] assets that were in place in 1995." (Whalen Direct Evidence, p. 17-18) Please provide equivalent data for the 2014-2023 time period. In other words, please provide a breakdown of transmission investment over the last ten years between the following purposes:

(a) Accommodating load growth

(b) Accommodating new generation

(c) Replacing or improving the performance of energy-classified assets

(d) Any other specified purposes

Response DR-20:

(a) The majority of transmission investments made between 2014-2023 were for replacing or improving the performance of energy-classified assets (please refer to part (c)).

(b) In 2014, the L-6053 South Canoe (17km 138kV tap) wind project entered service which totaled approximately $5 million.

The upgrades on L-7005 Strait of Canso 230kV steel tower crossing 1.5km; L-7011 (1.1km), L-7012 (0.3km), L-7021 (1.2km) and L-7022 (0.5km) 230kV from the Maritime Link Project and replacement of L6513 with L6613 (64.7 km) 138 kV were to accommodate for new generation imports from Newfoundland/Labrador which totaled

approximately $44 million over the last 10 years. Pursuant to the 2023-24 GRA Decision (M10431), these assets have not been included in rate base, until:

> NS Power can demonstrate that, for a minimum of four consecutive quarters:
>
> (a) the wheeling tariff revenue;
> (b) the economic value of NS Power purchases of additional Nalcor surplus energy (based on actual results following the methodology used in Undertaking U-64); or
> (c) a combination of wheeling tariff revenue and the economic value of purchased Nalcor surplus energy, is at least equal to the combination of depreciation, financing costs, operating costs, and re-dispatch costs.

(c) The majority of transmission investments made between 2014-2023 were to replace deteriorated assets that have been identified through NS Power's inspection program, these investments totaled approximately $255 million.

(d) N/A

Request DR-21:

Regarding the maintenance requirements for transmission equipment,

(a) Please provide the basis for forecast for maintenance requirements for classes of transmission equipment, such as hours in service, hours in service at elevated demand, calendar year(s), or other metrics.

(b) To the extent that it differs from the above, please explain NS Power's understanding of the key drivers affecting the lifetime of transmission equipment. For example, does operating transmission equipment above its rated capacity for more than one hour have a greater adverse effect on its lifetime than exceeding rated capacity for just one hour?

(c) Please provide any available analysis that relates the operating history of transmission equipment to the cost of maintaining and replacing that equipment. Please provide either NS Power-sourced analysis or external analysis that is typically relied upon by NS Power in the planning or operation of its transmission system.

Response DR-21:

(a) NS Power utilizes a maintenance strategy informed by a variety of inputs, including but not limited to: Manufacturer recommendations, operational experience, industry best practice, and engineering analysis. In the case of substation equipment, the baseline of the maintenance strategy is a suite of inspection and maintenance activities on a variety of standard intervals. Monthly and annual inspections are performed routinely, and each year the equipment that is due for a major maintenance (based upon its standard interval) is reviewed and executed or reprioritized based upon condition data gathered from on-site telemetry, other inspections, and any trouble reports or operational issues that would indicate a possible change in the equipment's condition. For transmission line equipment,

any interventions would be driven by the condition assessment results of regular inspection programs as well as performance data collected throughout the year. Corrective actions are developed and prioritized as appropriate to mitigate any identified risks as a result of the condition assessment or past performance.

(b) In the case of substation equipment, the lifetime is determined primarily by the health of the current-carrying components and the insulation. Equipment that is operated over its design capacity will experience accelerated loss of life. The rate of life loss increases as a function of the magnitude and the duration of the over-capacity operation. Operating above rated conditions can similarly have a deleterious effect on transmission conductor due to increased heating, and potentially lead to negative metallurgical impacts and increased loss of life.

(c) Equipment is operating as per design conditions and any equipment that may be operated outside of standard operating parameters is not normal operation. NS Power deploys protection and controls elements to maintain equipment within equipment design parameters. Equipment operating history cannot be linearly tied to a cost of maintenance or replacement because the combination of environmental conditions, material specifications, and any design margins or conservative operating limits mean that each case is different. Some cases where existing design limits have been exceeded may necessitate a complete asset replacement, while others may only require a change to system operating parameters, component upgrades, or other small-scale measures, or if exceedances are small or over limited timeframes, no further actions may be required.

Request DR-22:

Regarding the units proposed in the Battery Energy Storage Application (M11539)

(a) Please identify all material differences between the proposed units and those analyzed by E3 to forecast the ELCC for battery energy storage devices. Please include both technical specifications (e.g., those related to grid-forming capabilities) and operational intent (e.g., storage dispatch constraints to maintain operational capabilities).

(b) Please provide forecast operational data for the proposed units such as forecast days and duration of operation.

(c) Please provide the anticipated ELCC.

(d) Would the battery energy storage units duplicate services provided by new wind generators? For example, would they provide reactive power, freeing up the wind generators to increase true power output?

Response DR-22:

(a) The main variables that impact the ELCC value calculated by E3 for a battery energy storage system (BESS) are:

- maximum storage capacity
- the storage duration capability of the BESS
- roundtrip efficiency factor
- forced outage rate

The assumptions for maximum storage capacity (150 MW) and storage duration capability (4 hours), are the same in the E3 study and NS Power proposed units in the BES application. The roundtrip efficiency for the proposed BESS units (87%) is better than the efficiency assumed in the E3 study (84%). NS Power does not have a record of the forced outage rate assumed in the E3 study.

(b) Please refer to Attachment 1, for operation statistics from the 2022 Evergreen IRP scenario CE1-E1-R2.

(c) The ELCC used by system planning for these units is the same as the ELCC for a 4 hour duration, 150 MW storage solution in E3's study, which is 62% or 93 MW. An additional 4 MW of diversity benefit from the combination of wind and BESS can be counted for a total ELCC of 97 MW.

(d) No, the active power from a wind energy conversion system delivered to the turbine terminals is not increased by reducing reactive power demands. Inverter based resources (IBR) active/reactive power curves are not the same as for a synchronous machine. The reactive power for IBR is delivered via inverter design and, in a weak grid, often needs a STATCOM or capacitor bank and On Load Tap Changer (OLTC) to meet minimum requirements.

The specification for the BESS was for reactive power sufficient to allow it to ride through grid events and support the discharge or charge rates of up to 50MW. When active power is passed through a line, it can cause voltage at the BESS Point of Connection to rise or fall depending on the grid conditions and line loading. The reactive power specified by the design team for the BESS projects is required to maintain the voltage at the BESS within NERC required operating limits under credible scenarios for operation.

*Battery operation statistics from 2022 Evergreen IRP Scenario CE1-E1-R2

Year	Installed Capacity (MW)	Load/ Charging (GWh)	Generation/Discharging (GWh)	Losses (GWh)	Hours Charging (h)	Hours Discharging (h)	Hours Idle (h)
2025	0	0	0	0	0	0	0
2026	30	29	25	4	1274	1666	5820
2027	40	42	35	6	1387	1612	5761
2028	90	114	96	18	2010	2137	4637
2029	140	202	171	31	2359	2506	3895
2030	140	178	151	27	2193	2302	4265
2031	200	284	240	44	2584	2580	3596
2032	200	259	219	40	2430	2517	3837
2033	200	300	254	46	2398	2667	3695
2034	200	407	345	63	2866	2958	2936
2035	200	428	362	66	2911	2984	2881
2036	200	428	362	66	2931	3051	2802
2037	200	424	359	65	2916	3043	2801
2038	200	425	359	65	2940	3030	2810
2039	200	415	351	64	2868	2972	2920
2040	200	448	379	69	3031	3180	2573
2041	200	430	364	66	2954	3079	2727
2042	200	443	375	68	3012	3144	2604
2043	200	448	379	69	3049	3136	2575
2044	200	435	368	67	3000	3065	2719
2045	200	457	387	70	3136	3175	2490
2046	200	439	372	67	3671	3873	1216
2047	200	444	376	68	3687	3848	1225
2048	200	468	396	72	3849	3869	1042
2049	320	687	582	106	4094	4260	406
2050	400	797	675	122	4064	4214	482

Request DR-23:

Please indicate whether NS Power is currently developing plans to deploy static var compensators (STATCOMs) or synchronous condensers. If so, please answer the following.

(a) Would the STATCOMs or synchronous condensers duplicate services provided by new wind generators? For example, would they provide reactive power, freeing up the wind generators to increase true power output?

Response DR-23:

NS Power is assessing the use of available technologies including static var compensators (SVCs), STATCOMs, and synchronous condensers as potential grid support mechanism as the NS Power grid moves to large scale integration of renewable resources such as wind and battery energy storage systems (BESS). At this time, synchronous condensers are expected to be needed to support frequency response for the NS Power grid, as well as, for our requirements to support the Eastern Interconnection during frequency events.

(a) In NS Power's Transmission System Interconnection Requirements (TSIR) there is currently an inertia requirement and reactive power requirements for wind facilities. These are required to enable the wind plant to stay online and continue to deliver active and reactive power when there is a grid disturbance. NS Power continues to assess the requirements for wind facilities as knowledge in the field of integrating large scale inverter based resources (IBR) evolves. The support required is the minimum to allow for reliable operation of the wind facility and there is no plan to have any margin to redivert to other purposes.

A wind facility's active power delivered to the turbine terminals is not increased by reducing reactive power demands. For some wind facilities, additional STATCOM or capacitor banks are required to meet the power factor requirements.

NON-CONFIDENTIAL

Request DR-24:

Please provide the forecast use of the Reliability Tie based on stochastic or dispatch modeling, as applicable, including but not limited to the following:

(a) Hours/MWh in which the Reliability Tie is providing firm and non-firm power imports.

(b) Hours/MWh in which the Reliability Tie is providing firm and non-firm power exports.

(c) Hours/MWh in which the Reliability Tie is providing essential grid support services due to outages of other transmission connections.

(d) Any other intended services/uses.

Response DR-24:

(a-d) In the 2022 Evergreen IRP modelling the Reliability Tie does not provide access to additional firm and non-firm power imports or exports. The NS/NB interface limits were not increased via the presence of the Reliability Tie and exports were not modelled. In NS Power's Evergreen IRP modeling the main purpose of the Reliability Tie is to reduce the minimum online inertia requirement allowing for a greater penetration of inverter-based resources.

NON-CONFIDENTIAL

Request DR-25:

Please confirm that using the SLF/CP3 method, costs are assigned to classes on an annual basis and that it is not feasible to directly assign costs to seasonal, time-of-use, or hourly periods for purposes of cost-based ratemaking. In other words, such ratemaking designs require application of marginal-cost or other factors to approximate the allocation of SLF/CP3-based costs to seasonal, time-of-use, or hourly periods.

(a) If not confirmed, please explain how the SLF/CP3 method can be used to directly assign costs as described above.

Response DR-25:

Using the SLF/3CP method, NS Power assigns costs to classes on an annual basis, however, because the 3CPs take place during peak hour periods of the three winter months of January, February and December these costs can be used directly to set winter season, on-peak demand charges. In the 2021 TVP proceeding (M09777), NS Power used this approach to set the initial levels of the on-peak winter charges before they were scaled down to achieve a desired on-peak to off-peak winter charge ratio of 2 to 1. Please refer to CA DR-2 for justification of a continued use of the 3CP-based allocation.

Request DR-26:

Please provide 2023 actual plus 2024-2027 forecast unamortized balances related to the early retirement of assets for environmental reasons. Please distinguish between assets that NS Power anticipates including in the decarbonization deferral account and other assets.

Response DR-26:

The unrecovered net book values associated with assets expected to be retired to meet the decarbonization legislation are included in the table below. Assumptions on early retirement dates align with the Company's 2023 10-Year System Outlook and are subject to change. Assets required to be retired to meet the 2030 decarbonization legislation will be included in the Decarbonization Deferral Account (DDA).

($ millions)	
	Net Book Value at December 31, 2023[1]
Point Aconi	319.8
Trenton	281.0
International Coal Pier	15.8
Point Tupper Marine Terminal	17.2
Steam General	8.2

NS Power has not completed a forecast denoting the unrecovered net book value for these assets for 2024-2027. NS Power would expect to complete this analysis in conjunction with a GRA proceeding.

In addition, in response to the Canadian Environmental Protection Act 1999, 2008 Polychlorinated Biphenyl ("PCB") Regulations to phase out electrical equipment and liquids containing PCBs, NS Power is in the process of eliminating transformers and other oil-filled electrical equipment on its system that fall under the 2008 PCB Regulations Standard by December 31, 2025. NS Power has

[1] These figures do not include the unrecovered cost of removal or accretion expense.

recognized an ARO liability on the balance sheet of $3 million as at December 31, 2023 associated with the PCB phase-out program. NS Power has not done an assessment to determine the unrecovered net book value associated with PCB equipment. Retirements of PCB equipment are made in the normal course of NS Power's operations and completed using Accounting Policy 6420.

NON-CONFIDENTIAL

Request DR-27:

Please provide a summary (or a complete copy) of NS Power's distribution engineering standards, including examples of any analysis of the need for a distribution upgrade that relies on a class NCP estimate in whole or in part.

Response DR-27:

Please refer to Attachment 1.

NS Power does not rely on class NCP estimates when performing the analysis of the need for a distribution upgrade, but rather uses direct load measurements from distribution assets such as breakers, reclosure and transformers as well as customer meter data to create the models used in these studies.

Name	Section	Title
A-1M.pdf	Section A - Anchoring and Guying	Offset Method of Measuring Line Angles
A-2M .pdf	Section A - Anchoring and Guying	Guy Lead and Height Measurements
A-3M.pdf	Section A - Anchoring and Guying	Guy Selection Chart
A-4M .pdf	Section A - Anchoring and Guying	Double Circuit Guy Selection Chart
A-ED-10M.pdf	Section A - Anchoring and Guying	Guying Angle Pole
A-ED-11M .pdf	Section A - Anchoring and Guying	Guying Horizontal Deadend
A-ED-12M.pdf	Section A - Anchoring and Guying	Guying Vertical Deadend Line Angle 61°-90°
A-ED-13M.pdf	Section A - Anchoring and Guying	Stub Guy
A-ED-14M.pdf	Section A - Anchoring and Guying	Strut Guy
A-ED-15M.pdf	Section A - Anchoring and Guying	Storm Guy
A-ED-16M.pdf	Section A - Anchoring and Guying	Guying Double Circuit Pole Line Angle 1 to 5
A-ED-17M.pdf	Section A - Anchoring and Guying	Guying Double Circuit Pole Distribution & Transmission Line Angle 1°-5°
A-ED-18M.pdf	Section A - Anchoring and Guying	Guying Double Circuit Pole Distribution & Transmission Stub Guy Position for Line Angle 1°-5°
A-ED-19M.pdf	Section A - Anchoring and Guying	Guying Double Circuit Pole Distribution & Transmission Line Angle 6°-20°
A-ED-20M.pdf	Section A - Anchoring and Guying	Guying Double Circuit Pole Distribution & Transmission Mid - Guy Position
A-ED-22M.pdf	Section A - Anchoring and Guying	Guying Double Circuit Pole, Dist. and Trans. , Mid Guy Position
A-ED-23M.pdf	Section A - Anchoring and Guying	Guying Locations 1ph and Secondary or 1ph and Neutral 1-3 guys
A-ED-24M.pdf	Section A - Anchoring and Guying	Guying Locations 1ph and Secondary or 1ph and Neutral 2-4 guys
A-ED-25M.pdf	Section A - Anchoring and Guying	Guying Locations 1ph and Secondary or 1ph and Neutral 4-5 guys
A-ED-26M.pdf	Section A - Anchoring and Guying	Guying Locations 3ph and Secondary or 3ph and Neutral 1-3 guys
A-ED-27M.pdf	Section A - Anchoring and Guying	Guying Locations 3ph and Secondary or 3ph and Neutral 3-4guys
A-ED-28M.pdf	Section A - Anchoring and Guying	Guying Locations 3ph and Secondary or 3ph and Neutral 4-5 guys
A-ED-29M.pdf	Section A - Anchoring and Guying	Guying Locations 3ph and Secondary or 3ph and Neutral Horizontal Deadend
A-ED-30M.pdf	Section A - Anchoring and Guying	Double Circuit Guying Locations Double Circuit and Secondary or Neutral Line Angle 1°-20° 1-4 guys
A-ED-31M.pdf	Section A - Anchoring and Guying	Double Circuit Guying Locations Double Circuit and Secondary or Neutral Line Angle 21°-60° 2-7 guys
A-ED-32M.pdf	Section A - Anchoring and Guying	Double Circuit Guying Locations Double Circuit and Secondary or Neutral Line Angle 61°-90° 4-5 guys
A-ED-33M.pdf	Section A - Anchoring and Guying	Double Circuit Guying Locations Double Circuit and Secondary or Neutral Line Angle 61°-90° 6-7 guys
A-ED-34M.pdf	Section A - Anchoring and Guying	Double Circuit Guying Locations Double Circuit and Secondary or Neutral Line Angle 61°-90° 8 Guys
A-ED-35M.pdf	Section A - Anchoring and Guying	Expansion Anchor Installation
A-ED-36M.pdf	Section A - Anchoring and Guying	Plate Anchor Installation
A-ED-37M.pdf	Section A - Anchoring and Guying	Rock Anchor Installation
A-ED-38M.pdf	Section A - Anchoring and Guying	Power Installed Screw Anchor Installation
A-ED-39M.pdf	Section A - Anchoring and Guying	Log Anchor Installation
A-ED-41M.pdf	Section A - Anchoring and Guying	Push Brace Installation
C-10M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for 4/0 Triplex Secondary with No. 2/0 AASC Neutral
C-11M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2 Triplex Service Conductor with AASC Neutral
C-12M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for 1/0 Triplex Service Conductor with No. 2 AASC Neutral
C-13M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 4/0 Triplex Service Conductor with No. 2/0 AASC Neutral
C-1M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2 AASC 7 Strd (Bare) - Halifax
C-20M.pdf	Section C - Conductors, Sags and Te	Overhead Conductor Data
C-2M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2/0 AASC 7 Strd (Bare) - Winnipeg
C-30M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2 ACSR 6/1 (Bare) Sparrow
C-31M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 1/0 ACSR 6/1 (Bare) Raven
C-32M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for 2/0 ACSR 6/1 Bare - Quail
C-33M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 4/0 ACSR 6/1 (Bare) Penguin

Name	Section	Title
C-34M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2 ACSR 6/1 (Poly) Ebony
C-35M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 1/0 ACSR 6/1 (Poly) Almond
C-36M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2/0 ACSR 6/1 (Poly) Pecan
C-37M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 4/0 ACSR 6/1 (Poly) Buckeye
C-38M.pdf	Section C - Conductors, Sags and Te	Sag and Tansion Tables for 336.4 ACSR - Linnet
C-3M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 4/0 AASC 7 Strd (Bare) - Vancouver
C-4M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 336.4 KCMIL ASC 19 Strd (Bare) - Tulip
C-5M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2/0 AASC 7 Strd (Poly)
C-6M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 4/0 AASC 7 Strd (Poly)
C-7M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 336.4 KCMIL ASC 19 Strd (Poly)
C-8M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for No. 2 Triplex Secondary with AASC Neutral
C-9M.pdf	Section C - Conductors, Sags and Te	Sag and Tension Tables for 1/0 Triplex Secondary with No. 2 AASC Neutral
C-ED-10M.pdf	Section C - Conductors, Sags and Te	Pig Tail Top Tie
C-ED-11M.pdf	Section C - Conductors, Sags and Te	Pig Tail Side Tie
C-ED-12M.pdf	Section C - Conductors, Sags and Te	Hot Line Top Tie for Single Insulator
C-ED-13M.pdf	Section C - Conductors, Sags and Te	Hot Line Side Tie for Single Insulator
C-ED-14M.pdf	Section C - Conductors, Sags and Te	Hot Line Top Tie on Two Insulators for Existing Double Arm Poles and Double Circuit Poles Only
C-ED-15M.pdf	Section C - Conductors, Sags and Te	Hot Line Side Tie on Two Insulators for Existing Double Arm Poles and Double Circuit Poles Only
C-ED-16M.pdf	Section C - Conductors, Sags and Te	Spool Tie
F-10M.pdf	Section F - Fuses and Fusing	Fault Tamer Fuse Selection Chart for 1Ø Distribution Transformers and 1Ø Transformers Used in 3Ø Banks
F-1M.pdf	Section F - Fuses and Fusing	Fuse Link Selection Chart for 1Ø Distribution Transformers
F-3M.pdf	Section F - Fuses and Fusing	Fuse Link Selection Chart for 3Ø Transformers
F-4M.pdf	Section F - Fuses and Fusing	Fuse Link Selection Chart for 1Ø Step-down Transformers (Source Side Fusing)
F-5M.pdf	Section F - Fuses and Fusing	Group Fuse Link Selection Chart for Grounded Y Capacitor Banks
F-6M.pdf	Section F - Fuses and Fusing	Bay-O-Net Fuse Link Selection Chart for 1Ø Padmount and Submersible Transformers
F-7M.pdf	Section F - Fuses and Fusing	Back-up Current Limiting Fuse Selection Chart for 1Ø Distribution Transformers and 1Ø Transformers used in 3Ø Banks
F-8M.pdf	Section F - Fuses and Fusing	Back-up Current Limiting Fuse Selection Chart for Grounded Wye Capacitor Banks
F-9M.pdf	Section F - Fuses and Fusing	Back-up Current Limiting Fuse Selection Chart for 1Ø Padmount Transformers Fed from a Riser Pole
F-ED-10M.pdf	Section F - Fuses and Fusing	Mounting of Back-up Current Limiting Fuses
G-ED-10M.pdf	Section G - Grounding	Grounding Details for Distribution Lines
G-ED-11M.pdf	Section G - Grounding	Connection Details for Ground Rods
G-ED-12M (10U-ED-12M).pdf	Section G - Grounding	Grounding Details for Metallic Cable Guards
G-ED-20M.pdf	Section G - Grounding	Distribution Substation Fence Grounding Details (Steel Post and Aluminum Mesh)
G-ED-21M.pdf	Section G - Grounding	Distribution Substation Fence Grounding Plan
G-ED-30M (10U-ED-30M).pdf	Section G - Grounding	Grounding Details for Padmount Transformer
G-ED-40M.pdf	Section G - Grounding	Grounding Details for Gang-Operated Switch with Operating Handle 3.0m Above Ground
G-ED-41M.pdf	Section G - Grounding	Grounding Details for Gang-Operated Switch with Operating Handle Less Than 3.0m Above Ground
G-ED-42M.pdf	Section G - Grounding	Grounding Details for Gang-Operated Switch with Operating Handle Less Than 3.0m Above Ground (Existing Installations with Ground Rods)
J-1M.pdf	Section J - Joint Use	MINIMUM VERTICAL CLEARANCES ABOVE GROUND OR RAILS
J-2M.pdf	Section J - Joint Use	CLEARANCES BETWEEN GUYS AND OTHER PLANT ATTACHED TO THE JOINT USE STRUCTURE
J-3M.pdf	Section J - Joint Use	MIN DESIGN CELARANCES ABOVE NAVIGABLE WATERWAYS THAT ARE MINOR WORKS
J-ED-10M.pdf	Section J - Joint Use	SPACING ON JOINT-USE POLES
J-ED-12M.pdf	Section J - Joint Use	JOINT USE TRENCH DETAILS
J-ED-13M.pdf	Section J - Joint Use	GROUND DETAILS FOR JOINT-USE DISTRIBUTION LINES
J-ED-14M.pdf	Section J - Joint Use	JOINT-USE DUCT TERM FOR UG PRIMARY SERVICE (OVER 750V)

Name	Section	Title
J-ED-15M.pdf	Section J - Joint Use	LOCATION OF REMOTE POWER CABINET FOR CATV
J-ED-16M.pdf	Section J - Joint Use	MIN VERTICAL SEPARATION ON JOINT-USE POLES
J-ED-17M.pdf	Section J - Joint Use	COMM CABLE ATTACHMENT ON JOINT-USE CORNER POLES
J-ED-18M.pdf	Section J - Joint Use	JOINT-USE ANCHORING AND GUYING
J-ED-19M.pdf	Section J - Joint Use	JOINT-USE STUT GUYING
J-ED-20M.pdf	Section J - Joint Use	MIN VERTICAL CLEARANCES FOR JOINT-USE CABLE CROSSINGS
J-ED-21M.pdf	Section J - Joint Use	MIN JOINT-USE VERTICAL SEPARATIONS
J-ED-22M.pdf	Section J - Joint Use	MIN CONDUCTOR CLEARANCES FROM BUILDINGS
J-ED-23M.pdf	Section J - Joint Use	JOINT-USE CLEARANCES SERVICE ATTACHMENTS FOR SINGLE FAMILY DWELLINGS
J-ED-24M.pdf	Section J - Joint Use	JOINT-USE CLEARANCES AT SERVICE ATTACHMENTS TERMINATED ON SINGLE FAMILY DWELLINGS
J-ED-25M.pdf	Section J - Joint Use	JOINT-USE DUCT TERMINATIONS FOR UNDERGROUND SECONDARY SERVICES (UNDER 750V)
J-ED-26M.pdf	Section J - Joint Use	CLIMBING SPACE THROUGH COMM DROP WIRE
J-ED-27M.pdf	Section J - Joint Use	FIBREGLASS POLE TOP EXTENSION FOR SECONDARY SERVICES LESS THAN 750V
J-ED-28M.pdf	Section J - Joint Use	FIBREGLASS POLE TOP EXTENSION (1-5 DEG)
J-ED-29M.pdf	Section J - Joint Use	JOINT USE STUB GUYING
J-ED-30M.pdf	Section J - Joint Use	TREE TRIMMING CLEARANCES
J-ED-31M.pdf	Section J - Joint Use	MIDSPAN POLE ATTACHMENTS
J-ED-34M.pdf	Section J - Joint Use	JOINT-USE UG SERVICE POLE
J-ED-35M.pdf	Section J - Joint Use	MICROCELL INSTALLATION ON JOINT-USE POLE
J-ED-36M.pdf	Section J - Joint Use	JOINT-USE FRAMING POLE MOUNTED CABINET WITH POWER METER BASE
J-ED-37M.pdf	Section J - Joint Use	DECORATIVE ATTACHMENT POLE HANGING ON JOINT-USE POLE
J-ED-38M.pdf	Section J - Joint Use	CSP INSTALLATION
J-ED-39M.pdf	Section J - Joint Use	JOINT USE SERVICE POLE
J-ED-40M.pdf	Section J - Joint Use	JOINT USE SECONDARY AND COMMUNICATION
J-ED-42M.pdf	Section J - Joint Use	JOINT USE OPEN SECONDARY SERVICE POLE
OU-ED-10M.pdf	Section OU - Overhead to Undergrou	Duct Termination at Pole for Underground Primary Service
OU-ED-11M.pdf	Section OU - Overhead to Undergrou	30 Cable Termination Tangent Structure Underground Primary Service - 12 kV-25 kV (Rural)
OU-ED-12M.pdf	Section OU - Overhead to Undergrou	30 Cable Termination Tangent Structure Underground Primary Service 12 kV-25 kV (Urban)
OU-ED-13M.pdf	Section OU - Overhead to Undergrou	30 Cable Termination Dead-end Structure Underground Primary Service 12 kV-25 kV
OU-ED-14M.pdf	Section OU - Overhead to Undergrou	Cable Terminator Details (Porcelain Compound-Filled)
OU-ED-15M.pdf	Section OU - Overhead to Undergrou	Cable Terminator Details (Synthetic)
OU-ED-16M.pdf	Section OU - Overhead to Undergrou	Cable Terminator Details (Porcelain Dry-Type)
OU-ED-19M.pdf	Section OU - Overhead to Undergrou	Installation of Ground Stud Adapter on Riser Pole Cutouts
OU-ED-20M.pdf	Section OU - Overhead to Undergrou	Duct Termination at Pole for Underground Services (750 Volts and Less)
OU-ED-21M.pdf	Section OU - Overhead to Undergrou	Overhead Transformer Termination Details Underground Service to A URD Box
OU-ED-22M.pdf	Section OU - Overhead to Undergrou	Overhead transformer termination details underground service directly to a customer (also see 5U-ED-22M)
OU-ED-30M.pdf	Section OU - Overhead to Undergrou	10 Cable Termination Underground Primary Service 12 kV-25 kV
OU-ED-35M.pdf	Section OU - Overhead to Undergrou	30 Cable Termination Corner Structure Underground Primary Service 12 kV-25 kV (Rural)
P-1M.pdf	Section P - Poles and Settings	Table - Pole Dimensions and Mass (Weight)
P-2M.pdf	Section P - Poles and Settings	Table - Pole Dimensions & Mass (Weight) for Douglas Fir Distribution Poles Pressure Treated with Pentachlorophenol Preservative
P-3M.pdf	Section P - Poles and Settings	Table - CCA Pole Weights
P-4M.pdf	Section P - Poles and Settings	Minimum Pole Setting Depth in Soil and Rock
P-5M.pdf	Section P - Poles and Settings	Maximum Allowable Mass of Equipment on Unguyed Wood Poles
P-6M.pdf	Section P - Poles and Settings	Pole Allocation Requirements
P-ED-9M	Section P - Poles and Settings	Pole Name Plate

Name	Section	Title
P-ED-10M	Section P - Poles and Settings	Pole Marking Details
P-ED-11M	Section P - Poles and Settings	Pole Setting Details in Solid Rock
P-ED-12M	Section P - Poles and Settings	Pole Setting Details in Swamp or Bog
P-ED-13M	Section P - Poles and Settings	Pole Setting Details in Quick Sand with Steel Collars
P-ED-14M	Section P - Poles and Settings	Pole Installation on Rock Details
P-ED-15M.pdf	Section P - Poles and Settings	SPECIAL POLE SETTING DETAILS HEEL AND TOE
R-ED-12M.pdf	Section R - Framing 30 Distribution (I	Tangent Pole 30 12 kV-25 kV (Rural)
R-ED-13M.pdf	Section R - Framing 30 Distribution (I	Angle Pole 30 Line Angle 1°-5° 12 kV-25 kV (Rural)
R-ED-14M.pdf	Section R - Framing 30 Distribution (I	Angle Pole-30 Line Angle 6°-20° 12 kV-25 kV (Rural)
R-ED-15M.pdf	Section R - Framing 30 Distribution (I	Vertical Corner, Gypsy Structure 30 Line Angle 21°-60° 12 kV-25 kV (Rural)
R-ED-16M.pdf	Section R - Framing 30 Distribution (I	Training of Conductors at Vertical Corner 12 kV-25 kV (Rural)
R-ED-17M.pdf	Section R - Framing 30 Distribution (I	Vertical Dead-end Structure 30 Line Angle 61°-90° 12 kV-25 kV (Rural)
R-ED-18M.pdf	Section R - Framing 30 Distribution (I	Vertical Dead-end Structure 30 Line Angle 0°-20° 12 kV-25 kV (Rural)
R-ED-19M.pdf	Section R - Framing 30 Distribution (I	Single Dead-end Structure 30 12 kV-25 kV (Rural)
R-ED-20M.pdf	Section R - Framing 30 Distribution (I	Double Dead-end Structure 30 12 kV-25 kV (Rural)
R-ED-21M.pdf	Section R - Framing 30 Distribution (I	10 Take Off Pole 12 kV-25 kV (Rural)
R-ED-22M.pdf	Section R - Framing 30 Distribution (I	30 Take Off Pole 12 kV-25 kV (Rural)
R-ED-23M.pdf	Section R - Framing 30 Distribution (I	30 Take Off Pole Using In-Line Switches 12 kV-25 kV (Rural)
R-ED-24M.pdf	Section R - Framing 30 Distribution (I	10 Transformer Installation 12 kV-25 kV (Rural)
R-ED-25M.pdf	Section R - Framing 30 Distribution (I	Details for Mounting Lightning Arrester and Cutout
R-ED-26M.pdf	Section R - Framing 30 Distribution (I	Lightning Arrester Installation 12 kV-25 kV (Rural)
R-ED-28M.pdf	Section R - Framing 30 Distribution (I	Alley-Arm Construction 12 kV-25 kV (Rural)
R-ED-29M.pdf	Section R - Framing 30 Distribution (I	Three Phase Sectionalizing Pole 12 kV-25 kV (Rural)
R-ED-30M.pdf	Section R - Framing 30 Distribution (I	Standard Crossarms - Two Pin Crossarm and Six-Pin Crossarm
R-ED-31M.pdf	Section R - Framing 30 Distribution (I	Standard Crossarms - Four-Pin Crossarm
R-ED-32M.pdf	Section R - Framing 30 Distribution (I	Converting Existing 10 to 30 Tangent Pole 12 kV-25 kV
R-ED-33M.pdf	Section R - Framing 30 Distribution (I	Converting Existing 10 to 30 Transformer Installation 12 kV-25 kV
R-ED-34M.pdf	Section R - Framing 30 Distribution (I	Primary Mid-Span Tap 12 kV-25 kV
R-ED-35M.pdf	Section R - Framing 30 Distribution (I	Training of Conductors with Phase Transition at Vertical Corner (Left Hand Corner)
R-ED-36M.pdf	Section R - Framing 30 Distribution (I	Training of Conductors with Phase Transition at Vertical Corner (Right Hand Corner)
R-ED-37M.pdf	Section R - Framing 30 Distribution (I	Phase Transition on Tangent Line
R-ED-38M.pdf	Section R - Framing 30 Distribution (I	Phase Transition Pole Framing
R-ED-40M.pdf	Section R - Framing 30 Distribution (I	Basic Framing Dimensions for 50 ft (15.2m) Pole 12 kV-25 kV (Rural) Double Circuit Construction
R-ED-41M.pdf	Section R - Framing 30 Distribution (I	Double Circuit Structure Line Angle 0°-5° 12 kV-25 kV (Rural)
R-ED-42M.pdf	Section R - Framing 30 Distribution (I	Double Circuit Structure Line Angle 6°-20° 12 kV-25 kV (Rural)
R-ED-43M.pdf	Section R - Framing 30 Distribution (I	Double Circuit Structure Line Angle 21°-45° 12 kV-25 kV (Rural)
R-ED-44M.pdf	Section R - Framing 30 Distribution (I	Double Circuit Structure Line Angle 46°-90° 12 kV-25 kV (Rural)
R-ED-45M.pdf	Section R - Framing 30 Distribution (I	Double Circuit Deadend Structure 12 kV-25 kV (Rural)
R-ED-46M.pdf	Section R - Framing 30 Distribution (I	Double Circuit Double Deadend Structure 12 kV-25 kV (Rural)
R-ED-47M.pdf	Section R - Framing 30 Distribution (I	Double Circuit Structure Three Phase Take-Off 12 kV-25 kV (Rural)
S-ED-10M.pdf	Section S - Substations	Duct Termination at Pole for Underground Substation Exit Feeders
S-ED-11M.pdf	Section S - Substations	Three Phase Cable Termination for Underground Substation Exit Feeders 12 kV-25 kV (Urban)
S-ED-12M.pdf	Section S - Substations	Three Phase Cable Termination for Underground Substation Exit Feeders 12 kV-25 kV (Rural)
S-ED-13M.pdf	Section S - Substations	Three Phase Cable Termination for Underground Substation Exit Feeders on Vertical Deadend Structure 12 kV-25 kV (Urban)
S-ED-14M.pdf	Section S - Substations	Three Phase Cable Termination for Underground Substation Exit Feeders Deadend Structure 12 kV-25 kV (Rural)

Name	Section	Title
S-ED-16M.pdf	Section S - Substations	Three Phase Cable Termination for Underground Substation Exit Feeders on Double Circuit Structure 12 kV-25 kV (Rural)
S-ED-17M.pdf	Section S - Substations	Three Phase Cable Termination for Underground Substation Exit Feeders on Double Circuit Structure Bottom Circuit Dead-ended 12 kV-25 kV
S-ED-18M.pdf	Section S - Substations	Three Phase Cable Termination for Underground Substation Exit Feeders on Double Circuit Structure Top Circuit Dead-ended 12 kV-25 kV
SC-ED-10M.pdf	Section SC - Special Construction	LINE POST CONSTRUCTION MAX ANGLE 30
SC-ED-11M.pdf	Section SC - Special Construction	LINE POST CONSTRUCTION, MAX ANGLE 30, WITH TRANSFORMER
SC-ED-11MA.pdf	Section SC - Special Construction	LINE POST CONSTRUCTION - MAX ANGLE 30 WITH TX AND SECONDARY POST INSULATORS
SC-ED-12M.pdf	Section SC - Special Construction	LINE POST CONSTRUCTION - NEUTRAL ATTACHMENT FOR HIGH WIND AREAS
SC-ED-13M.pdf	Section SC - Special Construction	SECONDARY ATTACHMENTS FOR HIGH WIND AREAS
SC-ED-17M.pdf	Section SC - Special Construction	COASTAL AREAS GYPSY STRUCTURE 31 TO 60 DEGREES
SC-ED-18M.pdf	Section SC - Special Construction	COASTAL AREAS VERTICAL DOUBLE DEAD END, 61 to 90 DEGREES
SC-ED-19M.pdf	Section SC - Special Construction	LINE POST 3 PHASE DEAD END STRUCTURE
SC-ED-21M SHT 1 OF 3.pdf	Section SC - Special Construction	Fiberglass Alley Arm Offset Construction; 3 Phase Cable Termination
SC-ED-21M SHT 2 OF 3.pdf	Section SC - Special Construction	Fiberglass Alley Arm Offset Construction, 3 Phase Cable Termination (Details)
SC-ED-21M SHT 3 OF 3.pdf	Section SC - Special Construction	Fiberglass Alley Arm Offset Construction, 3 Phase Cable Termination (Isometric View)
SC-ED-22M SHT 1 OF 2.pdf	Section SC - Special Construction	Fiberglass Alley Arm Offset Construction, 3 Phase Transformer Installation
SC-ED-22M SHT 2 OF 2.pdf	Section SC - Special Construction	Fiberglass Alley Arm Offset Construction, 3 Phase Transformer Installation (Isometric View)
SC-ED-23M SHT 1 OF 2.pdf	Section SC - Special Construction	Fiberglass Alley Arm Offset Construction, 1 Phase Transformer Installation
SC-ED-23M SHT 2 OF 2.pdf	Section SC - Special Construction	Fiberglass Alley Arm Offset Construction, 1 Phase Transformer Installation (Isometric View)
SC-ED-24M SHT 1 OF 2.pdf	Section SC - Special Construction	Fiberglass Alley Arm Construction - Tangent Framing
SC-ED-24M SHT 2 OF 2.pdf	Section SC - Special Construction	Fiberglass Alley Arm Construction - (Isometric View)
SL-1M.pdf	Section SL - Street Lighting	Recommended Traditional Style Luminaire Mounting Height Above Roadway Surface
SL-2M.pdf	Section SL - Street Lighting	Recommended LED Style Luminaire Mounting Height Above Roadway Surface
SL-3M.pdf	Section SL - Street Lighting	Municipal Fixture Replacement Guideline Table
SL-4M.pdf	Section SL - Street Lighting	Replacement Guidelines for Floodlights and Yard light
SL-ED-11M.pdf	Section SL - Street Lighting	LED Streetlight Installation Between Secondary and Communication Attachment
SL-ED-12M.pdf	Section SL - Street Lighting	Street Lighting with Underground Supply with Grounding Conductor Present
SL-ED-13M.pdf	Section SL - Street Lighting	Street Lighting with Underground Supply with No Grounding Conductor Present
SL-ED-14M.pdf	Section SL - Street Lighting	Fusing of Customers Area Lighting Served Directly from NSPI Distribution System
SL-ED-15M.pdf	Section SL - Street Lighting	Fusing of Customer Owned Flood Lighting Served Directly from NSPI Distribution System
SL-ED-16M.pdf	Section SL - Street Lighting	Area Light Mounted on Prim Service Pole between Secondary and Communications
SL-ED-17M.pdf	Section SL - Street Lighting	Area Light on Secondary Service Pole
SL-ED-18M.pdf	Section SL - Street Lighting	Flood Light Installation Between Secondary and Communication Attachment
SL-ED-19M.pdf	Section SL - Street Lighting	Flood Light Aiming and Mounting Height on Service Pole
SL-ED-20M.pdf	Section SL - Street Lighting	Festive Lighting Served Directly from NSPI Distribution System
SL-ED-21M.pdf	Section SL - Street Lighting	Ground Level Festive Lighting
SL-ED-22M.pdf	Section SL - Street Lighting	LED Streetlight Mounted on Secondary Service Pole
SL-ED-25M.pdf	Section SL - Street Lighting	Crosswalk Sign Installation
SL-ED-26M.pdf	Section SL - Street Lighting	Highway Lighting Standard Installation (Unmetered 600 Volt Service)
SL-ED-27M.pdf	Section SL - Street Lighting	LED Street Light Grounding Details
SP-ED-10M.pdf	Section SP - Framing 10 Distribution	Basic Framing Dimensions - 7.2 kV - 14.4 kV - 10 Construction
SP-ED-11M.pdf	Section SP - Framing 10 Distribution	Tangent Pole-10 - 7.2 kV - 14.4 kV
SP-ED-12M.pdf	Section SP - Framing 10 Distribution	Angle Pole-10 Line Angle 1°-5° - 7.2 kV-14.4 kV
SP-ED-13M.pdf	Section SP - Framing 10 Distribution	Angle Pole-10 Line Angle 6°-20° 7.2 kV-14.4 kV
SP-ED-14M.pdf	Section SP - Framing 10 Distribution	Gypsy Structure-10 Line Angle 21°-60° 7.2 kV-14.4 kV
SP-ED-15M.pdf	Section SP - Framing 10 Distribution	Dead-end Structure-10 Line Angle 61°-90° 7.2 kV-14.4 kV

Name	Section	Title
SP-ED-16M.pdf	Section SP - Framing 10 Distribution	Double Dead-end Structure-10 Line Angle 0°-20° 7.2 kV-14.4 kV
SP-ED-17M.pdf	Section SP - Framing 10 Distribution	Single Dead-end Structure-10 7.2 kV-14.4 kV
SP-ED-18M.pdf	Section SP - Framing 10 Distribution	10 Take Off Pole - 7.2kV-14.4 kV
SP-ED-19M.pdf	Section SP - Framing 10 Distribution	10 Transformer Installation - 7.2 kV-14.4 kV
SP-ED-20M.pdf	Section SP - Framing 10 Distribution	Single Dead-end Structure - 10 Transformer Installation 7.2 kV-14.4 kV
SP-ED-21M.pdf	Section SP - Framing 10 Distribution	Single Phase Sectionalizing Pole - 7.2 kV-14.4 kV
SS-1M.pdf	Section SS - Secondary Construction	RECOMMENDED SIZES OF ALUMINUM TRIPLEX CABLE FOR 120/240V SERVICES FED FROM TRANSFORMER POLE
SS-2M.pdf	Section SS - Secondary Construction	RECOMMENDED SIZES OF ALUMINUM TRIPLEX CABLE FOR REGULAR DEMAND 120/240V SERVICES FROM SECONDARY BUS
SS-3M.pdf	Section SS - Secondary Construction	RECOMMENDED SIZES OF ALUMINUM TRIPLEX CABLE FOR HIGH DEMAND 120/240V SERVICES FROM SECONDARY BUS
SS-4M.pdf	Section SS - Secondary Construction	RECOMMENDED SIZES OF SERVICE CONDUCTOR FOR THREE PHASE SERVICES FED FROM TRANSFORMER POLE
SS-ED-10M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION FOR SINGLE DWELLING (NEW CONSTRUCTION - WALL ATTACHMENT) 120/240V 400A OR LESS
SS-ED-11M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION FOR SINGLE DWELLING (NEW CONSTRUCTION) 120/240V (400A OR LESS)
SS-ED-12M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION FOR DUPLEX HOUSE (NEW CONSTRUCTION) 120/240V
SS-ED-13M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION ON SERVICE MAST 120/240V (400A OR LESS)
SS-ED-14M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION FOR EXISTING SINGLE DWELLING 120/240V (400A OR LESS)
SS-ED-15M.pdf	Section SS - Secondary Construction	SPACING FOR SECONDARY CONDUCTORS
SS-ED-16M.pdf	Section SS - Secondary Construction	SECONDARY CONSTRUCTION AND TRIPLEX CABLE SERVICES
SS-ED-17M.pdf	Section SS - Secondary Construction	SECONDARY DEADEND CONSTRUCTION
SS-ED-18M.pdf	Section SS - Secondary Construction	SERVICE POLES
SS-ED-19M.pdf	Section SS - Secondary Construction	TRIPLEX CABLE SERVICE TRANSFORMER POLE
SS-ED-20M.pdf	Section SS - Secondary Construction	TRIPLEX CABLE SERVICE DIRECTLY FROM TRANSFORMER (TRANSFORMERS WITH ALUMINUM SPADE SEC TERMINALS)
SS-ED-21M.pdf	Section SS - Secondary Construction	TRIPLEX CABLE SERVICES DIRECTLY FROM TRANSFORMER
SS-ED-22M.pdf	Section SS - Secondary Construction	TEMPORARY SERVICE STRUCTURE WITH WOOD POLE, 120/240V (200A OR LESS)
SS-ED-23M.pdf	Section SS - Secondary Construction	TEMPORARY SERVICE STRUCTURE WITH PLANKS, 120/240V (200A OR LESS)
SS-ED-23MA.pdf	Section SS - Secondary Construction	TEMPORARY SERVICE STRUCTURE WITH PLANKS, 120/240V (SURFACE MOUNT)
SS-ED-24M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION FOR MOBILE HOME 120/240V (200A OR LESS) EXTERIOR DETAILS OF CUSTOMER"S SERVICE MAST INSTALLATION
SS-ED-25M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION FOR MOBILE HOME 120/240V (200A OR LESS) CUSTOMER"S INSTALLATION AND WALL SUPPORT OF SERVICE MAST
SS-ED-26M.pdf	Section SS - Secondary Construction	PARALLEL SERVICE CONNECTION AT THE SERVICE ENTRANCE (TRIPLEX OR QUADRUPLEX)
SS-ED-27M.pdf	Section SS - Secondary Construction	PARALLEL SERVICE CONNECTION AT THE SERVICE ENTRANCE - OPEN SECONDARY
SS-ED-28M.pdf	Section SS - Secondary Construction	Mid-Span Secondary Tap Construction (Urban)
SS-ED-30M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTION DETAILS FOR LINKED HOMES
SS-ED-31M.pdf	Section SS - Secondary Construction	UNDERGROUND SERVICE CONNECTION FROM SECONDARY DIRECTLY TO CUSTOMER
SS-ED-32M.pdf	Section SS - Secondary Construction	TRIPLEX SERVICE CONNECTIONS FOR SINGLE DWELLINGS 600A
T-1M.pdf	Section T - Transformer Connections	1Phase Transformer Capacity Selection Chart for 120/240V Domestic Services
T-2M.pdf	Section T - Transformer Connections	Minimum Size of Transformer Sec. Drop Leads for Tx with Clamp Type Terminals
T-3M.pdf	Section T - Transformer Connections	Minimum Size of Al. Secondary Drop Leads for Tx with Spade Terminals
T-4M.pdf	Section T - Transformer Connections	Minimum Size of Secondary Cable for 3 Phase Commercial/Industrial Services
T-5M.pdf	Section T - Transformer Connections	1 Phase Transformer Capacity Charts for ETS Installations
T-6M.pdf	Section T - Transformer Connections	1 Phase Tx. Capacity Selection Chart for Domestic Services up to 200A With Special Load Units
T-7M.pdf	Section T - Transformer Connections	1 Phase Tx. Capacity Selection Chart for Domestic Services up to 400A with Special Load Units
T-8M.pdf	Section T - Transformer Connections	Transformer Capacity Selection Chart for Electric Vehicle Charge Parks
T-9M.pdf	Section T - Transformer Connections	Transformer Capacity Selection Chart for Stand Alone Inverter Connected Distributed Generation
T-ED-10M.pdf	Section T - Transformer Connections	Transformer Installation 10 Wiring Diagrams
T-ED-11M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram - Grd Wye/Grd Wye, 120/208V Service
T-ED-12M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram - Grd Wye/Grd Wye, 120/208V Service

Name	Section	Title
T-ED-13M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram - Grd Wye/Grd Wye, 347/600V Service
T-ED-14M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram - 30 Floating Wye - Delta for 120/240V Service
T-ED-15M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram - 30 Open Wye/Open Delta for 120/240V Service
T-ED-16M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram Delta/Wye 120/208V Service
T-ED-17M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram - Floating Wye/Delta 600V Service
T-ED-18M.pdf	Section T - Transformer Connections	Transformer Installation (Additive Polarity) 10 Wiring Diagram - Grd Wye/Grd Wye Step-Down Transformer
T-ED-19M.pdf	Section T - Transformer Connections	Transformer Installation (Subtractive Polarity) 10 Wiring Diagram - Grd Wye/Grd Wye Step-Down Transformer
T-ED-20M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram Grd Wye/Grd Wye Step-Down Transformers
T-ED-21M.pdf	Section T - Transformer Connections	Transformer Cluster Mounting
T-ED-21MA.pdf	Section T - Transformer Connections	Transformer Cluster Mounting Floating Wye-Delta Connection (600 Volt Service)
T-ED-22M.pdf	Section T - Transformer Connections	Transformer Cluster Mounting on Deadend Pole
T-ED-23M.pdf	Section T - Transformer Connections	10 Step-Down Transformer Installation (Additive Polarity) 10 Line - Pole Mounted up to 100 kV.A
T-ED-24M.pdf	Section T - Transformer Connections	10 Step-Down Transformer Installation (Subtractive Polarity) 10 Line - Pole Mounted up to 100 kV.A
T-ED-25M.pdf	Section T - Transformer Connections	10 Step-Down Transformer Installation (Larger than 100 kV.A)
T-ED-26M.pdf	Section T - Transformer Connections	Three Phase Step-Down Transformer Installation
T-ED-27M.pdf	Section T - Transformer Connections	Industrial/Commercial Platform Mounted Substation
T-ED-30M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram Grd Wye/Grd Wye 120/208 V Service from 2-Phase, 3-Wire Primary
T-ED-31M.pdf	Section T - Transformer Connections	Transformer Installation 120/208V Service from 2 Phase - 3 Wire Primary
T-ED-32M.pdf	Section T - Transformer Connections	Transformer Installation 30 Wiring Diagram Grd Wye/Grd Wye, 347/600V Service from 2-Phase, 3-Wire Primary
T-ED-33M.pdf	Section T - Transformer Connections	Transformer Installation 347/600V Service from 2 Phase, 3 Wire Primary
T-ED-35M.pdf	Section T - Transformer Connections	Transformer Cluster Mounting for Two Single Phase Transformers
U-ED-10M.pdf	Section U - Framing 30 Distribution (U	Epoxirod Construction Tangent Pole 30 12 kV-25 kV (Urban)
U-ED-11M.pdf	Section U - Framing 30 Distribution (U	Epoxirod Construction Angle Pole 1°-10° 12 kV-25 kV (Urban)
U-ED-12M.pdf	Section U - Framing 30 Distribution (U	Epoxirod Construction Angle Pole 11°-20° 12 kV-25 kV (Urban)
U-ED-13M.pdf	Section U - Framing 30 Distribution (U	Vertical Corner, Gypsy Structure 30 Line Angle 21°-60° 12 kV-25 kV (Urban)
U-ED-14M.pdf	Section U - Framing 30 Distribution (U	Vertical Corner, Gypsy Structure 30 Line Angle 61°-90° 12 kV-25 kV (Urban)
U-ED-15M.pdf	Section U - Framing 30 Distribution (U	Epoxirod Construction 10 Take Off Pole 12 kV-25 kV (Urban)
U-ED-16M.pdf	Section U - Framing 30 Distribution (U	Epoxirod Construction 30 Take Off Pole 12 kV-25 kV (Urban)
U-ED-17M.pdf	Section U - Framing 30 Distribution (U	Epoxirod Construction 10 Transformer Installation 12 kV-25 kV (Urban)
U-ED-18M.pdf	Section U - Framing 30 Distribution (U	Epoxirod Construction Three Phase Sectionalizing Pole 12 kV-25 kV (Urban)
U-ED-20M.pdf	Section U - Framing 30 Distribution (U	Alley-Arm Epoxirod Construction 12 kV-25 kV (Urban)
U-ED-21M.pdf	Section U - Framing 30 Distribution (U	Alley-Arm Epoxirod Construction 12 kV-25 kV (Urban)
U-ED-22M.pdf	Section U - Framing 30 Distribution (U	Lightning Arrester Installation 12 kV-25 kV (Urban)
V-1M.pdf	Section V - Voltages and Clearances	VOLTAGE VARIATION LIMITS APPLICABLE AT SERVICE ENTERANCE
V-2M.pdf	Section V - Voltages and Clearances	VOLTAGE CLASSIFICATION
V-3M.pdf	Section V - Voltages and Clearances	MINIMUM VERTICAL CLEARANCES FOR CONDUCTORS CROSSING OVER GROUND OR RAILS
V-4M.pdf	Section V - Voltages and Clearances	MINIMUM CONDUCTOR CLEARANCES FROM BUILDINGS
V-5M.pdf	Section V - Voltages and Clearances	MINIMUM SEPARATIONS (HEIGHTS) OF SUPPLY EQUIPMENT FROM GROUND
V-6M.pdf	Section V - Voltages and Clearances	MINIMUM DESIGN CLEARANCES FROM SUPPLY CONDUCTORS TO BRIDGES
V-7M.pdf	Section V - Voltages and Clearances	MINIMUM SEPARATION OF EQUIPMENT AND CLEARANCES OF CONDUCTORS FROM SWIMMING POOLS
V-8M.pdf	Section V - Voltages and Clearances	MINIMUM VERTICAL DESIGN CLEARANCES ABOVE NAVIGABLE WATERWAYS
V-ED-10M.pdf	Section V - Voltages and Clearances	MIN DESIGN CLEARANCES BTWN CONDUCTORS CROSSING EACH OTHER AND CARRIED ON DIFFERENT SUPPORTING STRUCTURES
V-ED-11M.pdf	Section V - Voltages and Clearances	MINIMUM CLEARANCES BETWEEN CONDUCTORS IN SAME RIGHT-OF-WAY CARRIED ON DIFFERENT STRUCTURES
V-ED-12M.pdf	Section V - Voltages and Clearances	MINIMUM CLEARANCES FROM CONDUCTOR TO ABOVE GROUND & UNDERGROUND FUEL STORAGE TANKS
V-ED-13M.pdf	Section V - Voltages and Clearances	RECOMMENDED CLEARANCES TO ADJACENT STRUCTURES

Name	Section	Title
V-ED-14M.pdf	Section V - Voltages and Clearances	CLEARANCES TO ABOVE GROUND PROPANE OR NATURAL GAS EQUIPMENT
V-ED-15M.pdf	Section V - Voltages and Clearances	Service Conductor Clearances
Z-ED-10M.pdf	Section Z - Miscellaneous Equipmen	Capacitor Bank Installation 12 kV-25 kV (Rural)
Z-ED-11M.pdf	Section Z - Miscellaneous Equipmen	Capacitor Bank Installation 12 kV-25 kV (Urban)
Z-ED-20M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Hydraulic Recloser Installation 12kV - 25 kV
Z-ED-21M.pdf	Section Z - Miscellaneous Equipmen	Three Phase Recloser Installation 12 kV-25 kV
Z-ED-22M.pdf	Section Z - Miscellaneous Equipmen	Three Phase Recloser Installation 12 kV-25 kV
Z-ED-23M.pdf	Section Z - Miscellaneous Equipmen	Down Line 3 Phase Solid Dielectric Recloser (Conductor #2 ACSR/AASC and Larger)
Z-ED-24M.pdf	Section Z - Miscellaneous Equipmen	Downline 3 Phase Solid Dielectric Recloser, (Conductor < #2 AASC/ACSR)
Z-ED-25M.pdf	Section Z - Miscellaneous Equipmen	S&C Intellirupter Installation, #2 AASC/ACSR and Larger
Z-ED-26M.pdf	Section Z - Miscellaneous Equipmen	S & C Intellirupter, Conductor < #2 AASC/ACSR
Z-ED-27M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Solid Dielectric Recloser
Z-ED-28M.pdf	Section Z - Miscellaneous Equipmen	TripSaver Installation
Z-ED-29M SHT 1 OF 2.pdf	Section Z - Miscellaneous Equipmen	Three Phase Tripsaver Installation (Take-off Pole)
Z-ED-29M SHT 2 OF 2.pdf	Section Z - Miscellaneous Equipmen	Three Phase Tripsaver Installation (Sectionalizing Pole)
Z-ED-30M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Regulator Installation (Tapping Top Phase) 12 kV-25 kV (Up to 114 kV.A)
Z-ED-31M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Regulator Installation (Tapping Arm Phases) 12 kV-25 kV (up to 114 kV.A)
Z-ED-32M.pdf	Section Z - Miscellaneous Equipmen	Three Phase Regulator Installation Platform Structure 12 kV-25 kV
Z-ED-33M.pdf	Section Z - Miscellaneous Equipmen	Three Phase Equipment Structure Wood Platform
Z-ED-34M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Regulator Installation (Platform Structure) 12 kV-25 kV (above 114 kV.A)
Z-ED-35M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Equipment Structure Wood Platform
Z-ED-40M.pdf	Section Z - Miscellaneous Equipmen	Primary Metering Installation 12 kV
Z-ED-41M SHT 1 OF 2.pdf	Section Z - Miscellaneous Equipmen	Primary Metering Installation
Z-ED-41M SHT 2 OF 2.pdf	Section Z - Miscellaneous Equipmen	Primary Metering Installation
Z-ED-43M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Primary Metering Installation 12 kV-25 kV
Z-ED-50M.pdf	Section Z - Miscellaneous Equipmen	Gang-Operated Switch Installation (Horizontal)
Z-ED-51M.pdf	Section Z - Miscellaneous Equipmen	Gang-Operated Switch Installation (Vertical)
Z-ED-52M SHT 1.pdf	Section Z - Miscellaneous Equipmen	Three Phase 200 Amp Regulator Installation Aluminum Platform Structure
Z-ED-52M SHT 2.pdf	Section Z - Miscellaneous Equipmen	Three Phase 200 Amp Regulator Installation Platform Assembly 12kV - 25kV
Z-ED-52M.pdf	Section Z - Miscellaneous Equipmen	Three Phase 300Amp Regulator Installation Aluminum Structure
Z-ED-53M SHT 1.pdf	Section Z - Miscellaneous Equipmen	Three Phase 300Amp Regulator Installation Aluminum Platform Assembly
Z-ED-53M SHT 2.pdf	Section Z - Miscellaneous Equipmen	Single Phase Regulator Installation Aluminum Platform Structure
Z-ED-53M.pdf	Section Z - Miscellaneous Equipmen	Single Phase Regulator Installation Aluminum Platform Assembly
Z-ED-54M SHT 1.pdf	Section Z - Miscellaneous Equipmen	1 Phase 200 Amp Regulator Installation 6' Al Platform
Z-ED-54M SHT 2.pdf	Section Z - Miscellaneous Equipmen	1 Phase 200 Amp Regulator Installation 6' Al Platform
Z-ED-55M.pdf	Section Z - Miscellaneous Equipmen	Wildlife Protection Avian Nest Mgt Osprey Nest Platform
Z-ED-56M.pdf	Section Z - Miscellaneous Equipmen	Wildlife & Avian Protection 3 Phase Tangent 8' Arm
Z-ED-58M.pdf	Section Z - Miscellaneous Equipmen	Wildlife & Avian Protection 3 Phase Tangent 6' Arm
Z-ED-59M.pdf	Section Z - Miscellaneous Equipmen	Elevated Perch and Perch Deterrent
Z-ED-60M.pdf	Section Z - Miscellaneous Equipmen	Nesting Deterrent Details
Z-ED-61M.pdf	Section Z - Miscellaneous Equipmen	Wildlife & Avian Protection 3 Phase DE 8' Arm
Z-ED-64M.pdf	Section Z - Miscellaneous Equipmen	Avian Power Line Markers Flight Diverters
Z-ED-65M.pdf	Section Z - Miscellaneous Equipmen	Antenna Mounting on Distribution Pole
Z-ED-67M SHT 1 OF 4.pdf	Section Z - Miscellaneous Equipmen	Antenna with Lightning Rod Mount on Recloser Distribution Pole - Plan View and Elevation
Z-ED-67M SHT 2 OF 4.pdf	Section Z - Miscellaneous Equipmen	Antenna with Lightning Rod Mount on Recloser Distribution Pole - Details A and B

Name	Section	Title
Z-ED-67M SHT 3 OF 4.pdf	Section Z - Miscellaneous Equipmen	Antenna with Lightning Rod Mount on Recloser Distribution Pole - Details C and D
Z-ED-67M SHT 4 OF 4.pdf	Section Z - Miscellaneous Equipmen	Antenna with Lightning Rod Mount on Recloser Distribution Pole - General Notes
Z-ED-68M.pdf	Section Z - Miscellaneous Equipmen	Pole Top Aircraft Lighting on Service Pole
Z-ED-70M.pdf	Section Z - Miscellaneous Equipmen	Pole Top Aircraft Lighting 3 Phase DE Elevations
Z-ED-71M.pdf	Section Z - Miscellaneous Equipmen	Pole Top Aircraft Lighting Service Pole Elevation and Notes
Z-ED-72M.pdf	Section Z - Miscellaneous Equipmen	Directional Antenna Mounting on Existing Recloser Installation
Z-ED-73M.pdf	Section Z - Miscellaneous Equipmen	Aclara Line Sensor Installation
Z-ED-75M 1 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR AMI Transmitter Installation, Rural Framing
Z-ED-75M 10 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR AMI Transmitter and Yagi Antennae Shared Mounting, Rural Framing
Z-ED-75M 11 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR AMI Transmitter, Yagi Antennae and Power Supply Shared Mounting and Exploded Assembly Details
Z-ED-75M 12 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR Transmitter Bracket Details
Z-ED-75M 13 OF 15.pdf	Section Z - Miscellaneous Equipmen	YAGI Antenna Bracket Details
Z-ED-75M 14 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR Range Extender Bracket Details
Z-ED-75M 15 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR AMI Transmitter on Service Pole
Z-ED-75M 2 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR Transmitter and Power Supply : Exploded Assembly Details
Z-ED-75M 3 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR Transmitter and Power Supply; Assembly and Mounting Details
Z-ED-75M 4 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR AMI Range Extender, Rural Framing
Z-ED-75M 5 OF 15.pdf	Section Z - Miscellaneous Equipmen	Range Extender and Power Supply; Exploded Assembly Details
Z-ED-75M 6 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR AMI Transmitter and Wimax Antennae, Rural Framing
Z-ED-75M 7 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR Transmitter, WIMAX Antenna and and Power Supply ; Exploded Assembly Det
Z-ED-75M 8 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR AMI Transmitter and Wimax Antennae Shared Mounting; Rural Framing
Z-ED-75M 9 OF 15.pdf	Section Z - Miscellaneous Equipmen	CGR Transmitter, WIMAX Antennae and Power Supply Shared Mounting; Exploded Assembly Details
Z-ED-76M SHT 1 of 5.pdf	Section Z - Miscellaneous Equipmen	SpeedNet Radio Installations Sht 1
Z-ED-76M SHT 2 of 5.pdf	Section Z - Miscellaneous Equipmen	SpeedNet Radio Installations Sht 2
Z-ED-76M SHT 3 of 5.pdf	Section Z - Miscellaneous Equipmen	SpeedNet Radio Installations Sht 3
Z-ED-76M SHT 4 of 5.pdf	Section Z - Miscellaneous Equipmen	SpeedNet Radio Installations Sht 4
Z-ED-76M SHT 5 of 5.pdf	Section Z - Miscellaneous Equipmen	SpeedNet Radio Installations Sht 5
Z-ED-78M.pdf	Section Z - Miscellaneous Equipmen	DIRECTIONAL ANTENNA MOUNTING DETAILS ON EXISTING RECLOSER INSTALLATION

NON-CONFIDENTIAL

Request DR-28:

Please provide a breakdown of NS Power's proposal for costs classified as customer, for each class, differentiating among (1) customer-classified distribution costs (poles and conductors), (2) customer-classified line transformers, and (3) other customer-classified costs. If actual costs for this request and the following requested supporting detail are not available, please provide a reasonable estimate along with support for any necessary assumptions.

(a) Please provide the number of line transformers in service for each customer class by transformer capacity.

(b) Please provide any available data on the share of each class's customers who share their transformer with one or more other customers.

(c) Please provide the number and cost of actual annual new hookups, by class, for each year, 2014-2023. Please differentiate the residential class by single-family detatched, multi-unit (individual meters) dwelling, and multi-unit (master metered) dwellings.

(d) Please identify the portion of customer-classified costs that are specifically related to (i) the customer meter, service drop, final line transformer, or customer account and (ii) customer service costs (including meter reading, billing and customer records).

(e) Please confirm that costs in D018 Primary Equipment Spares are incurred for both "New Customers" and "Distribution Upgrades and Replacement," but are functionalized as new customer costs only and, in turn, classified as customer-related costs.

(i) If not confirmed, please explain.

(ii) If confirmed, please provide any proposal that NS Power has to functionalize the relevant portion of D018 costs to Distribution Upgrades and Replacement.

Response DR-28:

For a breakdown of NS Power's proposal for costs classified as customer, for each class, please refer to the following sections of the 2023 COSS.[1]

1. Customer-classified distribution costs
   a. Operating Expenses: sections "Customer" and "Retail" of Exh 6a
   b. Depreciation Expenses: section "Customer Classification" of Exh 6d"
   c. Summary of all customer-related expenses: section "Customer Classification", subsection "Distribution" of Exh 6.

2. Customer-classified line transformers: Please refer to "Line Transformers" category in sections listed under items a) and b) above. Please note that all the distribution transformer costs are classified to demand under NS Power's COSS.

3. Other customer-classified costs: section "Retail" on Page 4 of Exh 6.

(a) NS Power does not have information on transformer services by rate class. It is available on a more aggregate basis by the residential, commercial and industrial segments. The number of transformers in service for each market segment by transformer size is provided in Attachment 1.

(b) The percentage of customers who share a transformer with at least one other customer, by market segment, is estimated based on GIS data as follows:

- Residential: 91 percent
- Commercial: 81 percent
- Industrial: 46 percent

[1] M10431, Exhibit N-27, NS Power, 2022 General Rate Application (GRA), February 18, 2022, SR-01, Att 3.

(c) Please refer to Figure 1 below, which provides count and costs between 2014 and 2022 by market segments. NS Power does not have the requested information differentiated by single-family detached, multi-unit (individual meters) and multi-unit (master metered) dwellings in the residential segment.

Figure 1

Year	Residential	Residential $	Commercial	Industrial	Commercial & Industrial $
2014	2825	8,355,597	158	-31	4,890,885
2015	2664	8,876,711	133	-15	7,235,487
2016	3860	9,128,056	219	-8	5,997,324
2017	3969	9,523,236	264	-7	5,722,009
2018	4239	11,119,021	279	-9	7,290,426
2019	3605	10,957,250	206	1	6,126,859
2020	5334	14,657,919	185	-22	7,079,301
2021	6579	20,782,377	314	-4	7,878,034
2022	4993	26,053,860	152	-24	7,074,222

(d)

(i) NS Power's COSS tracks meter, service drop, and line transformer costs only by operating and depreciation expense categories. The breakdown of other costs associated with these assets such as interest, taxes, return, or non-operating revenue credits is not available. For details behind classification of operating expenses please refer to Exh 6a, and for depreciation expenses to Exh 6d.

Please note that all line-transformer costs are classified to demand.

NS Power's COSS does not provide costs specifically under a "customer account" category. Instead, there is a variety of customer service -related costs provided for the Retail Service Area. Please refer to page 4 of Exhibit 6 for details.

(ii) Please refer to the Retail section of Exhibit 6 on page 4 of the 2023 COSS for customer service costs.

(e)

(i) This can not be confirmed. Please refer to part (b) for further clarification.

(ii) Materials purchased under D018 are for the purpose of ensuring replacements are on hand to effectively serve customers in the event of a system failure. As a result, there are no plans to use material ordered under D018 for any other purpose.

Customer Class	Transformer Size (kVA)	Number of Transformers
Residential	10	25324
	25	53380
	30	143
	37.5	197
	50	25172
	75	2215
	100	224
	112.5	2
	150	212
	167	46
	225	39
	250	2
	300	36
	500	12
	750	3
	1000	1
Commercial	10	957
	25	2262
	30	410
	37.5	4
	50	832
	75	1798
	100	58
	112.5	19
	150	1989
	167	23
	225	330
	250	2
	300	717
	500	447
	750	256
	1000	130
	1500	76
	2000	25
	2500	16
	3000	6
	5000	1
Industrial	10	35
	25	81
	30	187
	50	49
	75	324
	100	6
	150	233
	167	1
	225	63
	300	96
	500	95
	667	1
	750	56
	1000	24
	1500	37
	2000	23
	2500	5
	3000	2
	5000	5
Mixed	10	557
	25	3580
	30	100
	37.5	48
	50	4026
	75	960
	100	103
	112.5	11
	150	784
	167	32
	225	136
	250	9
	300	331
	500	146
	667	2
	750	64
	1000	51
	1500	14
	2000	7
	2500	5
	3000	1
	5000	2

NON-CONFIDENTIAL

Request DR-29:

Please provide the annual replacement rate for transformers, service and meters.

(a) Please provide the derivation in Excel format with formulas intact and including original source data for all inputs and assumptions.

(b) Please provide the average service life for each type of equipment and reconcile the replacement rate to the service life.

(c) Please provide the cost of removal and salvage value, and explain how it is related to, or considered separately from, the replacement rate.

(d) Please provide the depreciation rate for each type of equipment and reconcile any differences with the annual replacement rate.

Response DR-29:

(a) NS Power replaces assets based on their condition and criticality as part of the Asset Management methodology, not based on a set number of replacements per year. Based on the health of the assets in each of these asset types, the number of replacements that can occur in a given year will vary. Generally, we've replaced 2-4 substation transformers annually (with the expectation of that number to increase in the future). On meters, we are planning to replace between 6,000-7,000 meters in 2024; however, that number is low due to the relatively low average age of the assets with the recent completion of the Automated Meter Infrastructure project.

(b) The most appropriate measure of average service life would be the most recent depreciation study. NS Power includes transformers within three depreciation pools: Overhead Transformers, Substation Transformers and Underground Transformers. The estimated

survivor curve and the average remaining life used in the company's previous depreciation study is included in the table below for these assets. NS Power is undertaking a depreciation study, required to be filed in advance of the next GRA proceeding, and expects these estimates will be updated through that proceeding.

	Estimated Survivor Curve	Average Remaining Life
4100 - Overhead Transformers	30 - R1	16.4
4400 - Substation Transformers	48 - R1.5	25.8
4800 - Underground Transformers	30 - R1	16.4
5100 - Meters	20 - S2	7.8

(c-d) The Net Salvage Rates for each asset class is included in the table below. NS Power is undertaking a depreciation study, required to be filed in advance of the next GRA proceeding, and expects that depreciation rates associated with these classes will be updated through that proceeding.

	Capital Recovery Rate	Net Salvage Rate	Depreciation Rate
4100 - Overhead Transformers	3.41	0.68	4.09
4400 - Substation Transformers	1.22	0.06	1.28
4800 - Underground Transformers	3.41	0.68	4.09
5100 - Meters	6.87	0	6.87

NON-CONFIDENTIAL

Request DR-30:

Regarding the maintenance requirements for distribution equipment,

(a) Please provide the basis for forecast for maintenance requirements for classes of distribution equipment, such as hours in service, hours in service at elevated demand, calendar year(s), or other metrics.

(b) To the extent that it differs from the above, please explain NS Power's understanding of the key drivers affecting the lifetime of distribution equipment. For example, does operating distribution equipment above its rated capacity for more than one hour have a greater adverse effect on its lifetime than exceeding rated capacity for just one hour?

(c) Please provide any available analysis that relates the operating history of distribution equipment to the cost of maintaining and replacing that equipment. Please provide either NS Power-sourced analysis or external analysis that is typically relied upon by NS Power in the planning or operation of its distribution system.

Response DR-30:

(a) NS Power's maintenance strategy is informed by a variety of inputs, including but not limited to: Manufacturer recommendations, operational experience, industry best practice, and engineering analysis. In the case of distribution equipment, the foundation of the maintenance strategy is a variety of inspection and assessment programs undertaken on standard intervals to better understand asset condition. This includes regular inspection of all distribution feeders and key equipment such as reclosers and padmount transformers to identify any deficiencies present on the system. The results of these programs are combined with the asset criticality to identify high risks requiring mitigation.

(b) Equipment that is operated over its design capacity will experience accelerated loss of life. The rate of life loss increases as a function of the magnitude and the duration of the over-capacity operation. NS Power's protection and control standards provide the appropriate bounds to respond to system conditions that may go above a particular rated capacity of equipment. NS Power's dynamic protection devices provide real-time monitoring and control to react and respond to these undesired conditions that, if left unaddressed, would otherwise negatively impact equipment. This approach helps to ensure the Company does not accelerate the consumption of asset life on our distribution system. NS Power regularly reviews and monitors load conditions on distribution equipment and addresses potential periods of extended over capacity through system adjustments, equipment upgrades or expansion, as appropriate.

(c) NS Power's equipment is typically operating under system conditions consistent with its design basis, and any equipment that may be operated outside of standard operating parameters is subject to engineering review and evaluated on a case-by-case basis. Equipment operating history cannot be linearly tied to a cost of maintenance or replacement because the combination of variations of equipment design (including any design margins included), environmental conditions, and operating parameters in each case can result in a different impact. This ultimately influences the interventions, if any, required to appropriately sustain the asset.

Request DR-31:

Please provide any available information on the use of the call center by class.

(a) Please explain whether larger customers are more likely to use the call center to question bills or request special services than smaller customers.

(b) Please explain whether customers with more complex billing (block rates, demand charges, TOU rates, and various adjustments and credits) are more likely to use the call center to question bills than those with simple energy billing.

Response DR-31:

(a) There is no discernible difference between larger or smaller customers, as defined by their rate class (e.g. residential, small general, etc.), calling customer care regarding their bill.

(b) NS Power has not observed any notable trends wherein customers with more complex billing arrangements are more or less likely to call Customer Care.

Request DR-32:

Please explain whether billing services are more complex for customers with demand charges, TOU rates, power factor adjustments, voltage adjustments, transformer credits, and/or interruptible credits, as compared to residential customers.

Response DR-32:

Billing services are becoming more complex for all customers. Demand charges, TOU rates, power factor adjustments, transformer credits, bi-directional rates and/or interruptible credits exist for commercial customers, but residential customers also have net metering, equal billing, TVP rates, and TOU rates. As per the Tariff 2024 book, rates are getting more complex as the Company tries to meet the needs of the changing utility delivery environment in Nova Scotia. Tariff rates for each customer class are outlined in detail at: https://www.nspower.ca/about-us/producing/rates-tariffs

NON-CONFIDENTIAL

Request DR-33:

Please explain whether electrical wiring inspection costs would be greater for larger customers, and if not, why not.

Response DR-33:

The cost of an electrical permit is determined by the installation value of the job (time and materials) therefore a larger installation value would have a larger permit fee. Electrical inspection costs are directly recovered through fees charged in Regulation 7.2 – Schedule of Wiring Inspection Fees.

Request DR-34:

Please provide complete and detailed documentation of the input data, methods, and results of the analyses used to determine the functionalization of NS Power's investments in:

(a) Primary poles.

(b) Secondary poles.

(c) Primary overhead conductors.

(d) Secondary overhead conductors.

(e) Primary underground lines.

(f) Secondary underground lines.

(g) Line transformers.

(h) Please provide copies of all workpapers, including electronic spreadsheets with cell formulas and file linkages intact, relied on to derive the functionalization of distribution plant costs, including the vintage (relevant dates) for each data source and assumption relied upon.

Response DR-34:

(a–h) For calculations behind sub-functionalization of distribution poles and wires into primary and secondary voltage please refer to exhibits: 3c, 3e, 3g. of the 2023 COSS.[1]

[1] M10431, Exhibit N-27, NS Power, 2022 General Rate Application (GRA), February 18, 2022, SR-01, Att 3.

For discussion of sub-functionalization of distribution poles and wires into primary and secondary voltage please refer to section:

- "3. Distribution system sub-functionalization and classification" of the evidence filed by Concentric in the 2023-2024 GRA (please refer to SBA DR-4 Attachment 1)

- "4. Poles Sub-functionalization" of the rebuttal evidence filed by Concentric in the 2023-2024 GRA (please refer to CA DR-61 Attachment 2).

Net book value and depreciation costs of distribution line transformers, all of which are sub-functionalized to secondary voltage in the COSS, come directly from the Company's capital accounting books. This is how NS Power functionalizes these assets in accordance with the Uniform System of Accounts.

NON-CONFIDENTIAL

Request DR-35:

Please provide the total number of poles and costs of poles installed for the most recent five years, broken down by reason for pole installation (e.g., new customer, replaced due to condition, upgraded due to increase in service level, etc.).

Response DR-35:

NS Power does not track investment in poles by pole installation type. NS Power uses pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets. As such, NS Power is unable to provide the net book value of the company's investment in poles by pole installation type using information from the Company's accounting system. Instead, an examination of historical data would be required to estimate the approximate value in rate base associated with the in investment in poles by pole installation type.

The ending balance of the net regulated plant in-service for the depreciation asset pools where the investment in Wood Poles accumulates for the previous 5 years is included in the table below:

		Ending Balance, Net Regulated Plant In-Service ($ millions)				
Functional Class	**Depreciation Asset Pool**	**2023**	**2022**	**2021**	**2020**	**2019**
Distribution Plant - D	Poles, Towers and Fixtures	321	299	272	260	249
Transmission Plant - T	Poles and Fixtures	203	193	186	175	176

NON-CONFIDENTIAL

Request DR-36:

Please provide the total costs of overhead wire for each voltage level installed for the most recent five years, broken down by reason for wire installation (e.g., new customer, replaced due to condition, upgraded due to increase in service level, etc.).

Response DR-36:

NS Power does not track investment in overhead wire by voltage level. NS Power uses pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets. As such, NS Power is unable to provide the net book value of the company's investment in overhead wire by voltage level using information from the Company's accounting system. Instead, an examination of historical data would be required to estimate the approximate value in rate base associated with the in investment in overhead wire by voltage level.

The ending balance of the net regulated plant in-service for the Overhead Conductors and Devices depreciation asset pool, where the investment in overhead wire accumulates, for the previous 5 years is included in the table below:

		Ending Balance, Net Regulated Plant In-Service ($ millions)				
Functional Class	**Depreciation Asset Pool**	**2023**	**2022**	**2021**	**2020**	**2019**
Distribution Plant - D	Overhead Conductors and Devices	182	188	136	136	126

NON-CONFIDENTIAL

Request DR-37:

Please provide the total costs of underground wire for each voltage level installed for the most recent five years, broken down by reason for wire installation (e.g., new customer, replaced due to condition, upgraded due to increase in service level, etc.).

Response DR-37:

NS Power does not track investment in underground wire by voltage level. NS Power uses pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets. As such, NS Power is unable to provide the net book value of the company's investment in underground wire by voltage level using information from the Company's accounting system. Instead, an examination of historical data would be required to estimate the approximate value in rate base associated with the in investment in underground wire by voltage level.

NS Power's investment in underground infrastructure accumulates within two depreciation pools - Underground Conductors and Devices and Underground Conduit. The ending balance of the net regulated plant in-service for these depreciation asset pools for the previous 5 years is included in the table below:

		Ending Balance, Net Regulated Plant In-Service ($ millions)				
Functional Class	**Depreciation Asset Pool**	**2023**	**2022**	**2021**	**2020**	**2019**
Distribution Plant - D	Underground Conductors and Devices	45	43	42	40	38
Distribution Plant - D	Underground Conduit	4	4	4	4	4

Request DR-38:

Please identify how NS Power allocates land, easements, survey, and other similar costs and explain the reasoning for this choice.

(a) For land/easements, please provide any available data (i.e., cost, acreage, asset valuation) on the functional breakdown of such assets (i.e., transmission, substations, distribution), by type of property control (ownership, easement, permit, other arrangement).

Response DR-38:

The plant categories of Land, Easements & Survey, and Other are classified to demand and customer based on the relative shares of demand and customer services of the combined investment in substations, and poles and wires. Under the current COSS,[1] investments in these categories account for 11% of the total investment in distribution plant and are classified 47.3% to Demand and 52.7% to Customer. The Company's COSS does not provide details on class allocation of a complete set of costs falling into these three categories. Rather, only details on allocation of the deprecation costs of Easements & Survey, and Other are provided in Exh 6d. All other costs associated with these items are included in joint aggregate categories such as return, corporate taxes, interest etc. Please refer to SBA DR-4 for more details.

This approach has been used for many years now. NS Power believes that ownership of land, the creation of rights-of-ways surrounding distribution and transmission lines, and the value of using someone else's land through Easements & Surveys represent complementary assets to effective operation of substations and power lines. Hence, they are subject to the same classification to customer and demand.

[1] M10431, Exhibit N-27, NS Power, 2022 General Rate Application (GRA), February 18, 2022, SR-01, Att 3.

(a) The net book value of land and land rights by functional area are provided below:

Functional Class	Depreciation Pool	Net Regulated Plant In-Service, Dec 31, 2023 ($millions)
Distribution Plant - D	Land	5
Distribution Plant - D	Land Rights	102
General Plant - P	Land	10
General Plant - P	Land Rights	4
Transmission Plant - T	Land	13
Transmission Plant - T	Land Rights	74

NS Power does not track assets within the land or land rights depreciation pools by type of property control. NS Power uses pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets. As such, NS Power is unable to provide the net book value of the company's investment in land and land rights by the categories requested.

Request DR-39:

For each NS Power distribution substation, please provide the time, date and magnitude of the annual peak load on the transformer for each year 2014–2023.

Response DR-39:

Transformer peak loads are calculated annually using data from the time of system peak load. Approximately 50 percent of substation transformers serving distribution loads have SCADA capability. Where direct SCADA measurements are not available, estimated peak loads are calculated using data sources such as transmission line SCADA. In these cases, total substation load is allocated equally between transformers.

Transformer peak loads are validated during planning studies using multiple data sources, including feeder data. These peak loads may not be coincident with the system peak load. A summary of exact times and dates of individual transformer peak loads is not available.

Transformer peak load history is available from 2016 – 2023, which is provided in Attachment 1. Records prior to 2016 have not been maintained in the same format and would be difficult to collect. Missing data points can be explained by transformers which were not yet in service, taken out of service, or missing measurements due to issues with telemetry equipment.

The peak load data was calculated during the times of system peak load shown in the table below. Note that the 2023 system peak which occurred at noon on Saturday, February 4 was the coldest day in almost 20 years, and the highest peak recorded to date.

Year	Date	Temperature[1]
2016	12/16/2016 18:00	-15.4
2017	12/28/2017 18:00	-13.3
2018	1/7/2018 17:00	-13.6
2019	2/27/2019 7:45	-16.4
2020	1/17/2020 18:10	-14.3
2021	3/2/2021 17:20	-12.9
2022	1/11/2022 17:20	-16.1
2023	2/4/2023 12:00	-22.5

1

[1] Hourly temperature for the indicated peak hour at Halifax International Airport, taken from the Government of Canada website: Historical Data - Climate - Environment and Climate Change Canada (weather.gc.ca)

Transformer	Sub ID	Sub Name	Region	2016 Peak (MW)	2017 Peak (MW)	2018 Peak (MW)	2019 Peak (MW)	2020 Peak (MW)	2021 Peak (MW)	2022 Peak (MW)	2023 Peak (MW)
1H-T61	1H	WATER STREET	Halifax	18.89	20.89	16.14	13.44	15.40	17.17	14.12	12.63
1H-T62	1H	WATER STREET	Halifax	20.53	14.65	15.19	19.53	26.12	15.57	20.52	21.82
1H-T63	1H	WATER STREET	Halifax	30.25	28.98	39.27	29.75	30.14	27.89	30.70	31.81
2H-T61	2H	ARMDALE	Halifax	31.38	31.93	28.16	31.46	33.86	16.10	19.41	23.41
2H-T62	2H	ARMDALE	Halifax	-	-	-	-	-	18.00	20.32	22.62
20H-T1	20H	SPRYFIELD	Halifax	-	8.62	20.19	18.20	16.00	18.03	21.25	26.72
20H-T2	20H	SPRYFIELD	Halifax	-	8.62	20.19	18.20	16.00	18.03	21.25	23.26
23H-T51	23H	ROCKINGHAM	Halifax	-	20.47	21.32	22.68	24.47	18.86	18.76	21.32
40H-T51	40H	WOODLAWN	Halifax	20.10	4.53	5.05	4.79	4.08	4.30	4.49	8.80
40H-T52	40H	WOODLAWN	Halifax	-	15.46	14.55	14.11	13.54	14.57	15.67	15.73
48H-T51	48H	PENHORN	Halifax	19.69	15.26	18.10	19.57	19.39	18.12	19.84	21.55
54H-T3	54H	MAPLE STREET	Halifax	15.16	15.4	14.81	13.71	13.60	14.32	14.37	14.08
58H-T3	58H	IMPERIAL OIL DIST	Halifax	18.13	-	17.18	17.09	15.59	16.21	16.25	26.27
62H-T1	62H	ALBRO LAKE ROAD	Halifax	12.66	7.6	11.84	9.63	10.65	11.07	12.22	11.74
87H-T61	87H	MUSQUODOBOIT HBR.	Halifax	10.80	14.18	11.67	11.28	15.28	13.42	18.74	13.19
88H-T51	88H	UP MUSQUODOBOIT	Halifax	7.62	7.58	8.86	12.18	16.04	15.50	17.35	17.40
92H-T61	92H	TIDEWATER	Halifax	15.53	15.05	13.84	12.80	10.46	12.55	16.98	23.41
96H-T53	96H	RUTH FALLS HYDRO	Halifax	5.33	5.61	6.20	5.08	5.18	4.02	5.60	4.05
99H-T51	99H	FARRELL STREET	Halifax	11.05	12.06	6.12	11.15	10.20	10.45	11.15	13.48
101H-T61	101H	COBEQUID ROAD	Halifax	29.90	28.16	29.53	27.37	25.59	26.92	29.04	35.84
101H-T62	101H	COBEQUID ROAD	Halifax	33.84	38.91	32.83	34.86	31.40	31.57	36.19	41.39
103H-T61	103H	LAKESIDE	Halifax	47.86	45.54	43.74	39.04	38.14	36.16	47.57	58.80
104H-T61	104H	KEMPT ROAD	Halifax	34.24	25.11	40.09	37.71	20.72	33.38	37.42	37.22
104H-T62	104H	KEMPT ROAD	Halifax	38.74	17.83	36.35	38.35	35.90	29.19	31.11	36.34
104H-T63	104H	KEMPT ROAD	Halifax	31.97	46.03	29.75	35.24	45.45	34.45	35.17	36.13
108H-T61	108H	BURNSIDE SUB.	Halifax	19.09	25.87	18.62	23.06	23.50	20.15	19.86	23.71
113H-T63	113H	DARTMOUTH EAST	Halifax	45.26	45.73	44.57	42.00	35.44	37.80	43.04	49.11
113H-T64	113H	DARTMOUTH EAST	Halifax	33.95	40.07	36.74	33.57	17.83	26.40	33.62	39.98
124H-T1	124H	AKERLEY BLVD.	Halifax	6.43	8.45	10.56	7.75	7.15	6.25	6.97	5.89
126H-T61	126H	PORTER'S LAKE	Halifax	16.95	-	18.31	14.74	6.77	12.64	13.10	26.49
127H-T61	127H	AEROTECH PARK	Halifax	20.66	14.61	19.99	21.33	18.55	17.46	19.40	12.31
129H-T61	129H	KEARNEY LAKE RD.	Halifax	40.33	39.64	39.48	27.83	25.79	33.23	42.14	50.07
131H-T62	131H	LUCASVILLE ROAD	Halifax	22.74	22.65	24.59	22.57	21.15	10.80	15.97	12.08
131H-T63	131H	LUCASVILLE ROAD	Halifax	25.88	30.79	28.42	28.09	28.04	23.16	30.69	35.82
137H-T61	137H	HAMMONDS PLAINS	Halifax	19.56	27.91	23.11	30.21	32.05	37.35	43.63	56.82
139H-T61	139H	DARTMOUTH CROSSING	Halifax	31.41	35.91	25.40	30.06	26.52	27.65	27.71	29.57
141H-T51	141H	MOUNT HOPE	Halifax	-	-	-	-	-	-	-	10.82
1C-T61	1C	PT. TUPPER GS/SUB	Canso	24.5	30.6	21.10	11.62	5.42	18.30	6.46	8.23
2C-T61	2C	PORT HASTINGS	Canso	5.7	8.83	1.61	2.91	2.40	2.63	3.21	3.46
4C-T63	4C	LOCHABER ROAD	Canso	38.2	19.8	40.90	36.98	36.49	38.10	45.17	52.72
4C-T2	4C	LOCHABER ROAD	Canso	0.0	20.9	0.00	0.03	0.00	0.00	0.00	0.00
9C-T1	9C	ABERDEEN	Canso	0.4	-	0.44	0.37	0.39	0.31	0.39	0.59
9C-T2	9C	ABERDEEN	Canso	0.4	-	0.44	0.37	0.39	0.31	0.39	0.59
19C-T51	19C	CANSO TOWN	Canso	1.6	1.3	1.76	1.62	1.44	1.65	1.69	1.95
22C-T61	22C	CLEVELAND	Canso	12.6	4.4	20.93	8.65	6.83	6.54	12.10	15.54
24C-T54	24C	DICKIE BROOK	Canso	5.4	4.4	5.96	6.01	4.90	5.60	5.73	6.62
57C-T1	57C	SALMON RIVER LAKE	Canso	6.1	9.8	6.74	5.36	4.54	5.19	5.31	7.60
58C-T51	58C	S.W. MARGAREE	Canso	9.4	7.0	10.62	6.11	6.28	5.02	6.26	10.34
59C-T61	59C	ST. PETER'S	Canso	2.8	9.7	4.73	7.47	10.24	9.82	9.46	12.15
67C-T64	67C	WHYCOCOMAGH	Canso	8.3	8.8	9.38	6.63	7.91	6.32	7.88	12.80
100C-T61	100C	CAPE PORCUPINE	Canso	5.8	3.0	5.27	3.41	6.23	6.55	6.44	8.09
103C-T51	103C	CHETICAMP	Canso	3.9	6.9	4.42	6.70	5.19	4.15	5.17	8.17
1N-T1	1N	ONSLOW	Northern	4.61	5.27	4.15	4.08	4.08	4.24	4.58	5.37
1N-T4	1N	ONSLOW	Northern	10.25	10.1	9.73	10.07	9.94	8.54	11.88	13.41
1N-T65	1N	ONSLOW	Northern	18.25	18.59	15.51	18.18	19.96	16.71	19.64	26.71
3N-T51	3N	OXFORD JUNCTION	Northern	3.63	7.9	3.01	3.97	6.01	6.29	7.94	6.84
4N-T51	4N	TATAMAGOUCHE	Northern	9.50	-	9.92	9.38	8.04	8.83	11.65	13.72
6N-T1	6N	BLACK RIVER ROAD	Northern	5.85	8.31	5.61	5.57	5.22	5.18	5.12	5.43
7N-T3	7N	PUGWASH	Northern	-	1.22	1.22	1.29	1.17	1.22	1.54	1.33
7N-T54	7N	PUGWASH	Northern	-	4.25	4.25	4.46	4.09	4.28	5.41	4.66
7N-T1	7N	PUGWASH	Northern	-	1.9	1.85	1.77	1.71	1.71	2.03	2.43
7N-T55	7N	PUGWASH	Northern	-	1.96	1.96	1.95	2.19	2.19	1.52	1.82
15N-T1	15N	WILLOW LANE	Northern	-	10.5	2.58	2.72	2.46	2.41	-	-
15N-T2	15N	WILLOW LANE	Northern	-	25.56	26.50	18.32	23.66	20.17	27.29	37.10
15N-T53	15N	WILLOW LANE	Northern	-	17.78	9.95	6.73	0.00	14.60	14.73	20.92
16N-T1	16N	STEWIACKE	Northern	7.34	9.0	9.00	8.79	11.18	8.74	7.90	9.20
17N-T1	17N	BROWNELL AVENUE	Northern	8.87	2.97	1.08	4.24	2.70	2.70	2.70	2.50
20N-T1	20N	PARK STREET	Northern	7.15	1.68	0.87	3.68	4.20	4.20	4.20	3.84
22N-T61	22N	CHURCH ST.	Northern	27.06	27.93	21.15	22.29	20.31	20.36	28.50	31.61
30N-T61	30N	MACCAN	Northern	4.57	-	10.38	3.46	3.66	3.21	4.11	4.99
37N-T51	37N	PARRSBORO	Northern	0.22	7.91	7.21	7.11	6.28	7.46	7.90	10.06
50N-T53	50N	TRENTON	Northern	24.07	27.76	23.03	18.14	22.62	23.35	21.52	33.23
50N-T51	50N	TRENTON	Northern	2.09	0.5	1.95	1.63	1.58	1.34	1.37	1.24
55N-T1	55N	PICTOU TOWN	Northern	7.20	4.73	4.19	4.97	1.85	0.93	1.77	4.56
56N-T51	56N	HALIBURTON	Northern	16.61	14.46	9.68	14.10	6.64	12.90	6.37	16.41
62N-T1	62N	BRIDGE AVENUE	Northern	16.97	20.87	19.73	17.88	21.78	16.89	23.55	21.62
62N-T2	62N	BRIDGE AVENUE	Northern	16.97	20.87	19.73	17.88	21.78	16.89	23.55	21.62
74N-T61	74N	SPRINGHILL	Northern	8.91	8.88	8.97	8.48	5.18	5.27	5.90	7.02
81N-T61	81N	DEBERT	Northern	19.13	17.81	17.47	15.06	16.93	18.30	18.52	19.45
3S-T3	3S	GANNON ROAD	Sydney	3.68	6.00	4.10	4.52	2.68	2.57	5.25	7.18
3S-T4	3S	GANNON ROAD	Sydney	12.86	7.56	12.94	13.30	13.54	11.57	13.92	17.01
3S-T5	3S	GANNON ROAD	Sydney	9.00	8.63	9.84	8.67	9.92	9.92	12.35	12.43
4S-T52	4S	TOWNSEND STREET	Sydney	15.05	16.71	16.72	17.23	12.35	11.93	13.90	17.21
4S-T53	4S	TOWNSEND STREET	Sydney	15.05	16.71	16.72	17.23	12.35	11.93	13.90	17.21
6S-T1	6S	TERRACE STREET	Sydney	6.63	3.89	7.02	2.86	0.40	3.01	-	-
11S-T51	11S	KELTIC DRIVE	Sydney	42.58	16.25	45.07	8.27	1.31	9.85	11.42	13.67

Transformer	Sub ID	Sub Name	Region	2016 Peak (MW)	2017 Peak (MW)	2018 Peak (MW)	2019 Peak (MW)	2020 Peak (MW)	2021 Peak (MW)	2022 Peak (MW)	2023 Peak (MW)
11S-T52	11S	KELTIC DRIVE	Sydney	-	9.42	-	11.72	1.52	11.41	13.22	17.43
11S-T53	11S	KELTIC DRIVE	Sydney	-	7.54	-	15.66	2.18	16.39	18.99	22.74
15S-T1	15S	NEW WATERFORD	Sydney	11.25	-	11.78	9.55	10.87	10.28	12.13	16.14
57S-T1	57S	ALBERT BRIDGE	Sydney	8.33	9.02	8.81	8.44	9.46	7.89	9.75	15.11
81S-T1	81S	RESERVE STREET	Sydney	15.38	4.35	16.27	14.15	14.20	11.83	14.62	19.78
81S-T2	81S	RESERVE STREET	Sydney	15.38	4.35	16.27	14.15	14.20	11.83	14.62	19.78
82S-T1	82S	WHITNEY PIER	Sydney	8.03	7.85	8.18	5.08	5.64	4.42	6.60	10.21
84S-T1	84S	V. J. DISTRIBUTION	Sydney	7.64	8.60	8.49	7.23	6.19	5.96	6.95	7.19
85S-T11	85S	WRECK COVE	Sydney	3.54	5.04	5.92	5.49	5.38	5.19	6.46	8.61
104S-T61	104S	BADDECK	Sydney	6.03	10.95	6.78	5.60	7.15	5.72	7.12	10.78
111S-T61	111S	PRIME BROOK	Sydney	-	-	-	-	11.95	11.95	13.29	14.63
1V-T51	1V	AVON NO.1	Valley	3.89	11.4	0.88	5.77	3.32	5.44	4.29	1.76
12V-T2	12V	LEQUILLE HYDRO	Valley	8.51	5.14	7.04	7.88	10.17	2.65	12.24	14.41
13V-T51	13V	GULCH	Valley	4.09	3.2	3.94	3.77	3.24	2.45	4.22	4.21
14V-T1	14V	RIDGE HYDRO	Valley	0.13	-	0.25	0.37	0.33	10.66	0.34	0.19
16V-T51	16V	WEYMOUTH HYDRO	Valley	8.02	7.84	7.34	7.00	6.33	3.97	6.47	7.65
18V-T51	18V	UPPER BURLINGTON	Valley	7.76	9.73	9.65	7.59	7.03	10.12	9.40	12.74
20V-T52	20V	FIVE POINTS	Valley	4.43	4.8	4.80	4.80	5.42	3.28	4.90	4.34
22V-T51	22V	NEW MINAS	Valley	9.21	6.56	8.29	7.66	9.32	1.70	10.55	6.90
22V-T52	22V	NEW MINAS	Valley	12.46	9.7	8.29	8.77	9.72	2.38	11.01	2.49
36V-T1	36V	HILLATON	Valley	8.11	6	7.30	12.15	6.28	4.20	7.07	8.48
50V-T51	50V	KLONDIKE	Valley	22.07	21.62	20.32	22.65	21.95	10.29	23.81	24.77
51V-T51	51V	TREMONT	Valley	3.31	4.8	5.76	3.44	4.04	1.90	5.05	1.53
52V-T51	52V	BERWICK	Valley	6.45	-	6.11	3.48	3.59	2.35	5.51	4.03
55V-T51	55V	WATERVILLE	Valley	-	5.14	6.36	8.20	8.35	24.60	5.12	11.26
55V-T52	55V	WATERVILLE	Valley	-	10.18	12.59	10.65	6.34	11.92	3.89	11.69
63V-T51	63V	KINGSTON	Valley	15.73	15.39	12.97	14.51	12.93	3.46	17.70	12.07
64V-T51	64V	GREENWOOD VILL.	Valley	8.85	8.96	7.29	9.53	7.99	3.76	7.74	7.45
65V-T1	65V	MIDDLETON RURAL	Valley	13.40	-	13.94	14.06	11.19	3.75	17.16	19.88
70V-T51	70V	BRIDGETOWN RURAL	Valley	9.17	8.68	7.58	7.83	7.81	8.66	7.07	9.78
74V-T51	74V	CORNWALLIS	Valley	2.48	-	2.05	0.93	1.75	8.66	1.59	2.20
76V-T1	76V	MAITLAND BRIDGE	Valley	0.28	-	0.54	1.40	1.36	-	1.43	0.47
77V-T1	77V	CONWAY	Valley	9.99	12.95	11.00	12.62	11.98	12.05	13.38	14.42
77V-T52	77V	CONWAY	Valley	6.51	3.2	3.20	3.87	2.84	6.95	3.18	3.42
79V-T1	79V	THREE MILE PLAINS	Valley	0.37	28.6	33.59	23.29	31.28	19.05	35.54	36.62
82V-T1	82V	ELMSDALE	Valley	12.49	-	29.50	27.70	31.40	27.20	33.30	36.00
82V-T62	82V	ELMSDALE	Valley	16.19	-	18.37	18.00	17.59	18.00	19.99	26.39
83V-T51	83V	WOLFVILLE RIDGE	Valley	13.63	-	14.58	14.25	13.24	4.12	14.33	17.93
93V-T51	93V	SAULNIERVILLE	Valley	11.83	13.52	11.01	13.45	13.06	3.02	13.86	15.48
99V-T61	99V	HIGHBURY	Valley	15.51	15.95	15.92	16.68	16.40	8.17	17.33	22.39
16W-T51	16W	HEBRON	Western	13.56	-	13.14	10.18	9.47	3.53	11.46	16.70
19W-T51	19W	CENTRAL ARGYLE	Western	5.62	6.51	5.63	6.54	6.51	12.00	6.13	8.74
20W-T51	20W	LWR. EAST PUBNICO	Western	3.49	3.65	3.49	3.67	3.17	4.03	3.56	5.08
21W-T51	21W	LWR. WOOD'S HBR.	Western	3.30	-	3.30	2.69	2.94	0.33	3.19	4.55
22W-T51	22W	BARRINGTON PASS.	Western	15.03	14.85	15.03	12.91	12.76	6.68	16.26	16.02
23W-T1	23W	CLYDE RIVER	Western	4.89	-	4.74	3.82	3.29	7.54	4.17	4.86
25W-T1	25W	OHIO RD.	Western	9.05	-	8.77	11.11	8.37	4.42	10.61	12.38
36W-T51	36W	GREEN HARBOUR	Western	2.68	-	3.41	4.58	4.08	10.50	3.61	4.46
37W-T1	37W	LOCKEPORT	Western	1.67	-	2.13	2.79	2.12	10.95	1.87	2.32
46W-T1	46W	BROAD RIVER	Western	3.57	3.66	4.55	4.14	2.97	7.04	2.62	3.24
48W-T1	48W	WATERLOO STREET	Western	4.81	3.45	1.15	1.12	1.15	22.14	4.10	5.05
50W-T53	50W	MILTON	Western	0.00	12.93	12.04	15.00	12.04	3.44	14.19	14.46
57W-T1	57W	CALEDONIA	Western	1.24	-	2.42	1.12	1.87	3.86	1.96	2.20
70W-T51	70W	HIGH ST (BRIDGEWTR)	Western	5.97	2.47	2.39	2.54	2.21	8.96	2.31	2.52
70W-T53	70W	HIGH ST (BRIDGEWTR)	Western	24.21	25.7	24.26	26.63	8.59	6.81	26.69	25.96
73W-T1	73W	AUBURNDALE	Western	12.40	14.32	12.42	14.23	11.22	14.63	15.49	19.92
76W-T1	76W	MAHONE BAY	Western	2.72	-	2.34	2.97	3.44	9.03	3.25	3.80
78W-T1	78W	MARTINS BROOK	Western	3.22	-	2.77	3.51	3.73	15.00	3.48	4.51
80W-T1	80W	INDIAN PATH	Western	8.83	-	7.59	8.71	3.72	10.12	4.65	6.03
84W-T1	84W	ROBINSON'S CORNER	Western	8.98	15.9	8.00	7.43	10.04	3.00	11.87	10.94
87W-T61	87W	HUBBARDS	Western	7.72	10.37	6.88	7.07	5.79	24.11	6.99	10.82
88W-T51	88W	PLEASANT STREET	Western	18.03	-	17.68	23.18	17.24	37.19	20.90	26.13
88W-T52	88W	PLEASANT STREET	Western	5.05	7.14	7.09	5.07	4.05	15.17	7.08	5.78
89W-T51	89W	BRIDGEWATER EAST	Western	11.83	-	13.19	12.61	9.04	13.79	14.97	18.39
91W-T51	91W	MIDDLEFIELD	Western	1.42	7	2.78	4.84	4.04	13.71	4.26	3.27
92W-T1	92W	CARLETON	Western	4.78	1.51	2.94	1.91	1.73	15.86	2.09	2.45
102W-T51	102W	TUSKET DISTRIBUTION	Western	6.38	-	7.19	6.55	5.41	10.25	7.88	10.59
103W-T61	103W	GOLD RIVER	Western	14.73	7.42	13.12	6.51	5.44	6.53	10.83	11.50

NON-CONFIDENTIAL

Request DR-40:

For each feeder, please provide the following in Excel format with formulas intact and including original source data for all inputs and assumptions:

(a) The peak load on the feeder for each of the last three years,

(b) The time and date of the peak load,

(c) The number of customers on the feeder,

(d) The length of the feeder, and

(e) Any available information about the mix of classes served on the feeder.

Response DR-40:

(a-e) Approximately 50 percent of NS Power's distribution feeders have SCADA capability, where historical data trends are available. Feeder peak loads are determined during planning studies using multiple data sources, including SCADA (where available) and AMI. A summary of exact times and dates of all distribution feeder peak loads is not available.

Feeder peak loads can be approximated using data from the system peak, which is known. This may not be representative for feeder peak loads which are not coincident with the system peak.

Please refer to Attachment 1 which provides approximated feeder peak loads, customer counts (total and by class), and feeder lengths for the years 2021-2023. The following assumptions and data sources were used:

Using 2023 AMI data, a load flow solution was developed using CYME Power System Analysis software. The results of this analysis provided the proportional contribution of each feeder to the upstream transformer peak load. The transformer peak loads (please refer to CA DR-39) were used to approximate feeder peak loads for each year. For example, Feeder Peak 2022 is equal to Transformer Peak 2022 * [Feeder CYME Result / Transformer CYME Result].

Please note that it is common for feeders to be reconfigured to ensure proper load balancing, to address capacity constraints, or to accommodate new line construction. The data provided in Attachment 1 will show step changes in customer count and line length where reconfigurations have been made; however, the peak load estimates are based on the 2023 feeder configuration.

Feeder	Region	2021 Peak Load (MW)	2022 Peak Load (MW)	2023 Peak Load (MW)	2021 Customer Count	2022 Customers	2023 Customers	2023 Residential Customers	2023 Commercial Customers	2023 Industrial Customers	2021 Length (m)	2022 Length (m)	2023 Length (m)
100C-421	Canso	1.47	1.45	1.82	955	963	989	931	57	1	111254	111662	111893
100C-422	Canso	4.22	4.15	5.22	504	511	540	474	54	12	52080	50822	50815
100C-423	Canso	0.86	0.84	1.06	12	12	12	0	4	8	3834	3834	3834
101H-411	Halifax	7.39	7.97	9.84	2221	2216	2196	2155	39	2	32068	32076	31707
101H-412	Halifax	7.76	8.37	10.33	1837	1838	1908	1684	223	1	22259	22211	22194
101H-413	Halifax	11.77	12.70	15.67	3492	3499	3494	3277	215	2	40199	40353	40800
101H-421	Halifax	11.41	13.08	14.95	2838	2863	2904	2678	208	18	81010	81129	81355
101H-422	Halifax	9.25	10.61	12.13	1313	1314	1350	1080	261	9	35505	35430	34125
101H-423	Halifax	10.91	12.51	14.31	3239	3250	3290	3011	274	5	34360	34369	34396
102W-311	Western	4.63	3.56	4.78	1128	1136	1152	1063	74	15	76705	76663	77327
102W-312	Western	5.63	4.33	5.81	1609	1633	1672	1585	83	4	212045	214476	217312
103C-311	Canso	2.22	2.77	4.37	789	800	826	697	122	7	27082	27204	27221
103C-313	Canso	0.35	0.43	0.68	178	178	184	167	17	0	12381	12376	12386
103C-314	Canso	1.58	1.97	3.12	857	873	893	821	71	1	73165	73105	73419
103H-431	Halifax	5.89	7.75	9.58	1197	1188	1203	1002	188	13	26615	26569	26686
103H-432	Halifax	10.58	13.92	17.21	3537	3644	3570	3473	89	8	61994	62790	63452
103H-433	Halifax	8.85	11.64	14.39	990	1095	1005	715	286	4	25140	25348	26706
103H-434	Halifax	10.83	14.25	17.62	3536	3590	3791	3636	144	11	158849	162156	162593
103W-311	Western	3.05	5.06	5.37	1506	1520	1568	1484	78	6	85201	85137	85443
103W-312	Western	3.48	5.77	6.13	1534	1551	1600	1534	63	3	95156	95387	95554
104H-411	Halifax	12.63	14.16	14.09	2703	2706	4987	4725	259	3	18054	18025	23748
104H-412	Halifax	1.37	1.53	1.53	2452	2440	532	494	38	0	8029	8052	1684
104H-413	Halifax	10.80	12.10	12.04	3835	3841	3900	3649	248	3	23840	23241	23465
104H-421	Halifax	13.45	14.34	16.75	2918	2905	2865	2692	168	5	21843	22030	22030
104H-422	Halifax	11.67	12.44	14.53	1099	1092	1098	1051	45	2	6866	6853	7295
104H-423	Halifax	4.07	4.33	5.06	1551	1558	1567	1512	55	0	12978	12844	12847
104H-431	Halifax	13.88	14.17	14.56	1659	1464	3126	2800	322	4	9890	9015	15409
104H-432	Halifax	2.22	2.27	2.33	1665	1676	370	188	179	3	7432	7771	2201
104H-433	Halifax	13.28	13.56	13.93	4741	4675	4856	4468	382	6	33228	33371	33573
104H-441	Halifax	5.06	5.17	5.31	1790	1791	1821	1636	185	0	14649	14694	14692
104H-442	Halifax	8.58	9.62	9.57	3486	3688	3838	3559	279	0	13490	13371	12384
104S-311	Sydney	3.99	4.97	7.53	1268	1284	1336	1115	216	5	103225	103373	103590
104S-312	Sydney	0.43	0.53	0.80	242	241	245	221	24	0	55481	55786	55777
104S-313	Sydney	1.30	1.62	2.45	738	618	777	708	69	0	130080	103268	131209
108H-411	Halifax	4.42	4.35	5.20	301	303	313	18	275	20	7903	7961	8007
108H-412	Halifax	8.12	8.01	9.56	438	437	448	15	410	23	11508	11511	13017
108H-413	Halifax	7.61	7.50	8.95	2950	2961	2997	2758	233	6	21881	21961	22108
111S-311	Sydney	3.34	3.72	4.09	390	396	404	376	26	2	10864	11101	11214
111S-312	Sydney	2.00	2.23	2.45	721	722	737	715	21	1	22592	22629	22928
111S-313	Sydney	3.29	3.66	4.03	441	440	454	393	61	0	11908	11902	11972
111S-314	Sydney	3.32	3.69	4.06	1367	1370	1392	1308	83	1	40284	40284	40340
113H-431	Halifax	7.31	8.32	9.50	2941	3019	1893	1812	76	5	27745	27830	24862
113H-432	Halifax	9.78	11.14	12.71	2346	2354	2374	2325	47	2	57523	57775	58014
113H-433	Halifax	9.24	10.52	12.00	2692	2700	2762	2672	79	11	96218	96642	96865
113H-434	Halifax	11.47	13.06	14.90	3927	3961	2875	2764	111	0	50899	50923	34981
113H-441	Halifax	9.56	12.18	14.48	3036	3049	2924	2873	45	6	36396	36270	36248
113H-442	Halifax	6.00	7.64	9.08	1917	1926	2044	1948	95	1	23440	23355	23355
113H-443	Halifax	8.07	10.27	12.22	3563	3567	2733	2675	57	1	40123	40090	30730
113H-444	Halifax	2.77	3.53	4.20	677	682	690	675	13	2	21990	22068	22068
11S-301	Sydney	3.68	4.26	5.62	1570	1571	1639	1514	121	4	181714	182416	184536
11S-302	Sydney	3.66	4.24	5.59	1061	1068	1076	1056	16	4	45105	45094	45094
11S-303	Sydney	4.07	4.71	6.22	865	871	808	703	101	4	18062	18072	18347
11S-304	Sydney	3.17	3.67	4.39	1108	1117	1136	1115	20	1	23144	23144	23133
11S-305	Sydney	3.45	4.00	4.79	818	855	907	833	71	3	17271	17248	17245
11S-306	Sydney	3.24	3.75	4.49	211	214	214	133	60	21	17151	17152	17520
11S-411	Sydney	10.74	12.45	14.91	3152	3187	3316	3105	197	14	243637	244645	245709
11S-412	Sydney	5.64	6.54	7.83	1434	1440	1474	1396	76	2	46030	46014	46007
124H-301	Halifax	2.04	2.28	1.93	277	276	284	83	193	8	4893	4903	4883
124H-302	Halifax	4.20	4.69	3.96	202	203	213	11	185	17	7314	7314	7312
126H-311	Halifax	3.55	3.68	7.44	1340	1360	1388	1363	25	0	65699	66525	67692
126H-312	Halifax	4.82	5.00	10.11	2127	1684	2224	2110	111	3	112056	81730	113829
126H-313	Halifax	4.27	4.42	8.95	1758	1771	1797	1753	41	3	56627	57275	57815
127H-411	Halifax	11.88	13.20	8.38	2654	2695	2727	2592	132	3	101707	103509	103826
127H-412	Halifax	1.95	2.17	1.38	1	1	1	0	0	1	3157	3154	3154
127H-413	Halifax	3.62	4.03	2.55	103	107	114	9	95	10	21370	21486	21414
129H-411	Halifax	5.60	7.10	8.43	3987	3988	3988	3857	131	0	14547	14559	14558
129H-412	Halifax	16.44	20.84	24.76	4122	6167	6281	6023	256	2	22241	35700	35715
129H-413	Halifax	11.20	14.20	16.87	5184	5209	5245	5015	228	2	29583	29523	29490
12V-302	Valley	1.42	6.57	7.74	1725	1742	1774	1600	154	20	137705	138180	136951
12V-303	Valley	0.47	2.15	2.54	660	659	670	648	19	3	40153	40213	40336
12V-304	Valley	0.76	3.51	4.14	1030	1038	1063	964	91	8	97211	97236	97427

Feeder	Region	2021 Peak Load (MW)	2022 Peak Load (MW)	2023 Peak Load (MW)	2021 Customer Count	2022 Customers	2023 Customers	2023 Residential Customers	2023 Commercial Customers	2023 Industrial Customers	2021 Length (m)	2022 Length (m)	2023 Length (m)
131H-421	Halifax	6.23	9.21	6.97	2320	2323	2304	2278	26	0	28034	28226	28206
131H-422	Halifax	13.09	17.34	20.24	4736	4838	4863	4618	221	24	162001	165437	168321
131H-423	Halifax	10.07	13.35	15.58	3628	3677	3730	3647	79	4	96818	91678	92903
131H-424	Halifax	4.57	6.76	5.12	1470	1626	1394	1346	47	1	48856	50960	52270
137H-411	Halifax	11.09	12.96	16.87	3015	3075	3173	3013	157	3	126980	128017	126286
137H-412	Halifax	11.68	13.64	17.77	2070	2176	3031	2938	90	3	114103	114488	116834
137H-413	Halifax	12.20	14.25	18.55	4364	4596	4551	4387	156	8	41397	41945	42133
137H-414	Halifax	2.38	2.78	3.62	3874	2632	2657	2395	247	15	47834	36145	38012
139H-411	Halifax	4.22	4.22	4.51	438	440	443	15	400	28	19512	19269	19225
139H-412	Halifax	1.93	1.93	2.06	70	73	84	9	72	3	8583	8671	8771
139H-413	Halifax	10.80	10.82	11.55	227	230	260	13	245	2	24356	24330	24670
139H-414	Halifax	10.71	10.73	11.45	2401	2397	2411	2310	90	11	39674	39714	39805
13V-303	Valley	2.45	4.22	4.21	1538	1556	1603	1517	84	2	167961	168613	168732
15N-401	Northern	9.02	12.20	16.59	4596	4621	4692	4422	256	14	87653	83119	83319
15N-402	Northern	5.99	6.04	8.58	205	208	217	128	76	13	9976	10000	9485
15N-403	Northern	8.61	8.69	12.34	1936	1966	1993	1786	196	11	109079	109487	109643
15N-404	Northern	11.15	15.09	20.52	2890	3701	3794	3349	434	11	74413	81576	81710
15S-301	Sydney	3.86	4.55	6.06	1850	1862	1863	1863	0	0	37129	37356	37393
15S-302	Sydney	3.92	4.62	6.16	1351	1355	1402	1345	57	0	23312	23324	23349
15S-303	Sydney	2.50	2.95	3.93	1229	1227	1260	1227	31	2	36907	36907	36836
16N-301	Northern	5.41	4.89	5.70	1881	1926	1989	1809	168	12	141880	142524	143810
16N-302	Northern	3.33	3.01	3.51	812	835	862	812	42	8	83070	84158	84409
16V-314	Valley	2.43	3.95	4.67	1402	1407	1450	1317	117	16	138132	138662	138993
16V-315	Valley	1.55	2.52	2.98	884	890	927	869	53	5	76453	77124	77121
16W-301	Western	2.36	7.67	11.18	1908	1937	1974	1856	106	12	156266	159416	159614
16W-302	Western	1.17	3.79	5.52	1388	1409	1439	1392	43	4	194418	195472	195020
17N-201	Northern	0.64	0.64	0.59	285	285	287	258	29	0	2353	2376	2376
17N-202	Northern	0.74	0.74	0.68	319	317	310	281	29	0	3191	3175	3158
17N-203	Northern	1.32	1.32	1.22	341	340	339	268	66	5	19068	19205	19205
18V-411	Valley	3.33	3.09	4.19	685	690	711	687	21	3	69252	69484	69570
18V-412	Valley	1.46	1.36	1.84	778	795	840	800	36	4	114924	116430	117245
18V-413	Valley	5.33	4.95	6.71	1761	1788	1829	1762	63	4	202557	202758	205038
19W-311	Western	2.61	1.33	1.90	422	422	434	411	23	0	51658	51278	51679
19W-312	Western	9.39	4.80	6.84	1134	1136	1158	970	156	32	60823	60763	60799
1C-411	Canso	15.67	5.54	7.05	1465	1465	1424	1214	193	17	47446	46498	46426
1C-412	Canso	2.63	0.93	1.18	3	3	3	1	1	1	3315	3315	3315
1C-413	Canso	0.00	0.00	0.00	1	1	1	0	1	0	9541	9541	2660
1H-403	Halifax	8.67	9.55	9.89	1069	1130	858	613	244	1	9070	9070	7660
1H-405	Halifax	2.19	1.80	1.61	9	119	119	108	11	0	3596	3586	3057
1H-415	Halifax	10.45	8.60	7.69	1554	1557	1565	1380	180	5	5781	5639	5543
1H-419	Halifax	4.53	3.73	3.33	80	75	75	8	67	0	6293	6315	4850
1H-424	Halifax	5.66	7.47	7.94	599	597	619	566	52	1	2575	2537	3262
1H-427	Halifax	12.05	13.26	13.74	2686	2971	3188	2965	222	1	6910	7869	8335
1H-429	Halifax	4.86	6.40	6.81	3	2	3	0	3	0	3347	3441	3441
1H-431	Halifax	5.05	6.65	7.07	823	832	841	660	181	0	4998	4998	5101
1H-454	Halifax	7.16	7.89	8.17	3081	3322	3362	3141	217	4	7190	7287	7273
1N-402	Northern	7.22	8.49	11.54	2620	2533	2577	2334	224	19	207644	201953	202145
1N-403	Northern	4.24	4.58	5.37	1451	1445	1527	1360	160	7	41589	41040	41288
1N-404	Northern	0.95	1.11	1.51	465	474	479	467	11	1	31562	31685	31742
1N-405	Northern	8.54	10.04	13.65	2094	2118	2175	2028	137	10	186782	182015	195153
1N-421	Northern	8.54	11.88	13.41	2657	2843	2970	2547	421	2	48157	56092	43767
1V-442	Valley	0.00	0.00	0.00	1	1	1	0	1	0	3049	3049	3049
1V-443	Valley	5.44	4.29	1.76	1917	1974	2035	1933	100	2	210041	212436	213505
20H-301	Halifax	5.62	6.62	8.33	1608	1625	1671	1573	88	10	63661	63951	64094
20H-302	Halifax	5.82	6.86	8.62	692	692	697	669	27	1	10115	10121	17747
20H-303	Halifax	6.59	7.77	9.77	1400	1423	1456	1406	46	4	73046	73546	73876
20H-304	Halifax	6.02	7.10	7.77	2838	2928	3070	2901	161	8	21014	20964	21053
20H-305	Halifax	4.96	5.85	6.40	2259	2293	2323	2262	57	4	37312	37342	29748
20H-306	Halifax	7.05	8.30	9.09	2391	2418	2462	2315	146	1	19963	19985	20235
20N-201	Northern	0.18	0.18	0.17	48	48	51	50	0	1	1771	1769	1769
20N-203	Northern	1.80	1.80	1.64	460	460	467	442	25	0	6931	7013	7013
20N-204	Northern	2.22	2.22	2.02	599	597	619	595	23	1	7403	7404	7404
20V-311	Valley	3.28	4.90	4.34	1368	1371	1393	1309	77	7	69443	69396	69612
20W-311	Western	2.44	2.16	3.08	561	574	594	516	63	15	40295	40712	40963
20W-312	Western	1.58	1.40	2.00	151	151	161	138	16	7	15837	15754	15952
21W-311	Western	0.17	1.64	2.33	398	397	414	366	33	15	17863	17885	17898
21W-312	Western	0.16	1.56	2.22	266	275	281	233	30	18	16752	16734	16734
22C-401	Canso	1.78	3.29	4.23	383	387	391	270	117	4	26784	26735	26735
22C-402	Canso	0.53	0.98	1.26	552	555	579	560	17	2	149135	150203	150729
22C-403	Canso	1.06	1.97	2.53	798	805	848	797	43	8	84124	84347	87464
22C-404	Canso	3.17	5.86	7.52	2394	2411	2523	2368	132	23	223455	226555	227730

Feeder	Region	2021 Peak Load (MW)	2022 Peak Load (MW)	2023 Peak Load (MW)	2021 Customer Count	2022 Customers	2023 Customers	2023 Residential Customers	2023 Commercial Customers	2023 Industrial Customers	2021 Length (m)	2022 Length (m)	2023 Length (m)
22N-401	Northern	6.61	9.26	10.27	2625	2250	2715	2463	244	8	47750	32189	47886
22N-402	Northern	4.78	6.69	7.42	3247	3274	3378	3302	69	7	234027	234443	235714
22N-403	Northern	2.61	3.66	4.06	1003	1003	1055	994	59	2	122629	122950	123371
22N-404	Northern	6.35	8.90	9.87	437	443	459	280	163	16	17954	18340	18369
22V-313	Valley	0.78	4.84	3.17	553	553	559	430	110	19	13278	13300	13299
22V-314	Valley	0.92	5.71	3.74	271	277	286	193	91	2	7953	7966	7966
22V-321	Valley	1.57	7.26	1.64	1303	1320	1333	1234	89	10	29848	30031	30820
22V-322	Valley	0.81	3.75	0.85	704	720	728	650	62	16	21632	21602	21601
22W-311	Western	2.77	6.74	6.65	1160	1167	1213	1099	91	23	67896	66404	66391
22W-312	Western	2.22	5.40	5.32	1098	1098	1139	954	140	45	42165	42224	42243
22W-313	Western	1.69	4.11	4.05	1037	1042	1073	917	141	15	51820	52009	52375
23H-301	Halifax	3.48	3.46	3.93	1246	1236	1244	1180	64	0	11032	11067	11064
23H-302	Halifax	4.11	4.09	4.65	1690	1690	1704	1587	116	1	10378	10338	10408
23H-303	Halifax	3.97	3.95	4.49	2432	2432	2435	2339	95	1	12173	12235	12164
23H-304	Halifax	7.30	7.26	8.25	3447	3446	3465	3306	158	1	17940	17963	18011
23W-301	Western	1.05	0.58	0.68	235	235	242	230	12	0	30263	30147	30267
23W-302	Western	6.49	3.59	4.19	935	960	994	911	61	22	113148	114011	115064
24C-442	Canso	1.85	1.89	2.19	932	932	982	930	49	3	118686	118753	119132
24C-443	Canso	3.75	3.84	4.44	1420	1422	1494	1340	148	6	241686	242257	244035
25W-301	Western	1.05	2.53	2.95	979	995	1023	963	56	4	151122	152240	154439
25W-302	Western	1.43	3.42	3.99	891	898	921	826	78	17	53406	53907	53827
25W-303	Western	1.94	4.66	5.44	1027	1034	1121	946	166	9	50064	50053	57367
2C-401	Canso	0.57	0.70	0.75	316	317	330	283	45	2	26374	26335	26319
2C-402	Canso	2.05	2.51	2.71	1572	1582	1641	1539	99	3	214887	216246	216488
2H-411	Halifax	10.35	12.47	15.05	5223	5235	5323	4953	363	7	38781	38936	38988
2H-412	Halifax	0.76	0.92	1.11	229	232	223	213	10	0	7552	7552	2595
2H-413	Halifax	4.99	6.02	7.26	1642	1653	1688	1617	68	3	20946	21016	20862
2H-421	Halifax	6.58	7.43	8.27	1957	1959	1970	1919	51	0	14961	15084	15105
2H-422	Halifax	1.92	2.17	2.42	1002	1003	1022	970	50	2	6354	6375	6375
2H-424	Halifax	9.50	10.72	11.93	1812	1872	1920	1707	211	2	9387	9368	9507
30N-411	Northern	1.51	1.93	2.35	524	528	545	545	0	0	66614	67390	67371
30N-412	Northern	1.70	2.17	2.64	695	689	738	738	0	0	84504	84416	84413
36V-301	Valley	0.81	1.37	1.64	574	576	583	504	44	35	58495	58496	58545
36V-302	Valley	1.83	3.08	3.69	1601	1606	1654	1512	117	25	141586	141858	142374
36V-303	Valley	1.56	2.62	3.15	1734	1748	1781	1700	65	16	144448	144887	145381
36W-301	Western	7.36	2.53	3.13	750	766	791	750	39	2	118431	119703	120234
36W-304	Western	3.14	1.08	1.33	446	449	422	403	18	1	47431	47386	40334
37N-411	Northern	1.33	1.41	1.79	822	830	847	783	60	4	92744	93523	93857
37N-412	Northern	1.59	1.68	2.14	743	745	888	820	62	6	136012	136199	136052
37N-413	Northern	1.41	1.49	1.90	512	513	526	490	33	3	120758	120687	120651
37N-414	Northern	3.14	3.32	4.23	1167	1173	1206	1103	100	3	71525	71792	71767
37W-201	Western	2.92	0.50	0.62	210	211	220	194	22	4	10484	10485	10928
37W-202	Western	7.84	1.34	1.66	237	240	243	190	42	11	4920	5015	5015
37W-203	Western	0.19	0.03	0.04	16	16	18	14	3	1	673	673	673
3N-411	Northern	0.28	0.35	0.30	23	24	26	16	8	2	9603	9694	9671
3N-412	Northern	6.01	7.59	6.54	1066	822	1110	1031	68	11	129874	54723	54679
3S-301	Sydney	1.74	2.16	2.18	799	797	815	789	25	1	59138	59480	59479
3S-302	Sydney	3.18	3.95	3.98	1326	1326	1352	1327	24	1	25377	25826	25821
3S-303	Sydney	5.01	6.23	6.27	1765	1769	1805	1710	92	3	26328	26323	26318
3S-307	Sydney	4.33	5.20	6.36	1930	1928	2023	1899	120	4	38892	38865	38988
3S-308	Sydney	3.99	4.80	5.87	738	734	775	617	155	3	16323	16393	16085
3S-309	Sydney	3.25	3.91	4.78	1459	1464	1498	1446	49	3	42313	42311	42312
3S-403	Sydney	1.82	3.71	5.08	1827	1841	1835	1744	86	5	211052	201732	198446
3S-405	Sydney	0.75	1.54	2.10	26	31	30	1	26	3	6414	6661	4909
40H-302	Halifax	5.66	6.09	6.11	2376	2380	2436	2285	148	3	23915	23863	23919
40H-303	Halifax	2.26	2.43	2.44	427	427	434	390	44	0	8679	8683	8683
40H-304	Halifax	4.10	4.41	4.43	1015	1017	1025	940	85	0	13369	13375	13373
40H-305	Halifax	2.55	2.74	2.75	964	965	969	965	3	1	11101	11213	11213
40H-401	Halifax	4.30	4.49	8.80	1112	1120	1121	1108	13	0	17085	17078	17078
46W-301	Western	3.26	1.21	1.50	633	642	656	620	34	2	86810	86460	86579
46W-303	Western	3.78	1.41	1.74	556	572	593	538	55	0	39023	39443	39622
48H-301	Halifax	5.72	6.26	6.80	2363	2366	2384	2284	100	0	18661	18653	18651
48H-302	Halifax	6.19	6.77	7.36	1494	1495	1500	1431	68	1	15357	14290	14288
48H-303	Halifax	3.96	4.34	4.71	428	429	427	330	84	13	9031	9030	9032
48H-304	Halifax	2.25	2.47	2.68	878	887	899	819	75	5	10056	10049	9987
48W-201	Western	8.33	1.54	1.90	338	339	347	312	34	1	14766	14665	14665
48W-203	Western	3.54	0.66	0.81	58	57	59	30	27	2	1549	1600	1600
48W-204	Western	10.27	1.90	2.34	529	454	463	423	40	0	8993	7447	7447
4C-424	Canso	8.15	9.67	11.28	1038	1064	1114	1074	34	6	117802	118047	118552
4C-430	Canso	11.50	13.64	15.92	2389	2433	2481	2348	123	10	370812	374597	374846
4C-432	Canso	6.69	7.93	9.25	1229	1239	1272	1159	109	4	155071	154954	155420

Feeder	Region	2021 Peak Load (MW)	2022 Peak Load (MW)	2023 Peak Load (MW)	2021 Customer Count	2022 Customers	2023 Customers	2023 Residential Customers	2023 Commercial Customers	2023 Industrial Customers	2021 Length (m)	2022 Length (m)	2023 Length (m)
4C-441	Canso	11.76	13.94	16.27	2158	2191	2272	2128	127	17	266038	267657	270131
4C-442	Canso	0.00	0.00	0.00	1	1	1	1	0	0	1523	1236	1236
4N-311	Northern	2.41	3.19	3.75	1136	1161	1197	1121	65	11	135232	136626	137221
4N-312	Northern	4.11	5.42	6.38	2220	2272	2329	2218	104	7	252369	254674	256998
4N-313	Northern	2.30	3.04	3.58	1148	1158	1194	1101	89	4	220376	220969	221457
4S-321	Sydney	3.38	3.94	4.87	1745	1800	2395	2323	71	1	17354	18499	18612
4S-322	Sydney	2.58	3.01	3.72	431	425	676	476	198	2	5358	5401	8354
4S-323	Sydney	1.97	2.29	2.84	757	675	70	5	60	5	16432	15931	8861
4S-324	Sydney	4.00	4.66	5.77	1566	1575	1605	1481	123	1	23177	23163	23138
4S-331	Sydney	4.44	5.18	6.41	825	822	1383	1176	206	1	17082	16953	21143
4S-332	Sydney	1.81	2.11	2.61	492	573	559	436	121	2	6970	7566	7027
4S-333	Sydney	2.47	2.88	3.56	898	896	981	908	72	1	9718	9740	16572
4S-334	Sydney	3.20	3.73	4.62	72	74	430	315	115	0	1502	1593	5372
50N-311	Northern	1.34	1.37	1.24	11	12	13	12	0	1	6135	6135	6135
50N-410	Northern	6.11	5.63	8.69	2665	2694	2762	2655	93	14	375980	373553	377911
50N-411	Northern	5.91	5.45	8.42	1842	1844	1862	1804	53	5	46210	46570	46586
50N-412	Northern	9.10	8.39	12.96	2974	2960	3070	2784	267	19	51990	51977	51949
50N-415	Northern	2.23	2.05	3.17	795	802	836	803	31	2	57584	58222	58607
50V-401	Valley	4.06	9.40	9.78	2051	2075	2136	1947	181	8	37467	37531	38433
50V-402	Valley	6.23	14.41	14.99	2243	2332	2384	2024	345	15	50578	51234	48771
50W-411	Western	1.24	5.13	5.23	1430	1516	1553	1439	102	12	51525	53001	53432
50W-412	Western	2.19	9.06	9.23	3745	3367	3465	3322	135	8	315173	312990	315362
51V-301	Valley	1.90	5.05	1.53	1265	1272	1290	1179	108	3	45443	45670	45784
54H-301	Halifax	3.45	3.46	3.39	1608	1616	1675	1578	89	8	10149	11223	11216
54H-302	Halifax	2.87	2.88	2.82	1204	1205	1267	1225	42	0	10717	10835	10841
54H-303	Halifax	3.91	3.92	3.85	1384	1376	1401	1189	212	0	4844	4859	4859
54H-304	Halifax	4.09	4.10	4.02	1391	1396	1395	1290	103	2	10089	10141	10145
55N-201	Northern	0.13	0.26	0.66	225	224	224	210	14	0	3468	3468	3468
55N-202	Northern	0.24	0.45	1.17	321	321	320	218	99	3	4343	4314	4314
55N-203	Northern	0.29	0.55	1.41	365	365	367	342	24	1	13306	13302	13302
55N-204	Northern	0.27	0.52	1.33	384	383	386	366	16	4	10504	10504	10518
55V-313	Valley	13.25	2.76	6.07	1711	1726	1757	1643	97	17	184538	184748	184463
55V-314	Valley	11.35	2.36	5.19	1348	1379	1433	1333	81	19	149585	150084	150418
55V-322	Valley	6.35	2.07	6.23	1313	918	1335	1264	64	7	73438	53500	74543
55V-323	Valley	5.57	1.82	5.46	1102	1122	1137	1032	83	22	48427	48758	49850
56N-401	Northern	4.30	2.12	5.47	1106	1120	1145	1008	132	5	77083	77057	77560
56N-402	Northern	0.47	0.23	0.60	11	11	11	4	4	3	1581	1581	1581
56N-414	Northern	8.13	4.01	10.34	3050	3096	3160	3040	114	6	420432	422948	424316
57C-417	Canso	0.10	0.10	0.14	54	54	58	54	3	1	26215	26211	26211
57C-422	Canso	1.59	1.63	2.33	1200	1215	1255	1215	39	1	302183	303315	303490
57C-426	Canso	3.50	3.58	5.13	1764	1769	1873	1739	129	5	283133	283076	284072
57S-401	Sydney	4.27	5.27	8.17	2104	2112	2224	2096	122	6	218888	221391	223052
57S-402	Sydney	3.62	4.48	6.94	1976	2003	2063	1995	66	2	282535	283244	284421
57W-401	Western	2.53	1.29	1.45	919	934	968	932	36	0	162604	162722	162926
57W-402	Western	1.32	0.67	0.76	309	305	317	283	28	6	51874	51700	51549
58C-403	Canso	3.56	4.43	7.33	1402	1361	1463	1314	145	4	163822	149959	167282
58C-405	Canso	1.46	1.82	3.01	1553	1563	1507	1370	134	3	219460	220612	220727
58H-421	Halifax	7.96	7.98	12.91	1312	1315	2623	2540	78	5	20774	20678	42068
58H-431	Halifax	8.24	8.27	13.36	2191	2200	2086	1939	130	17	52264	52277	47457
59C-401	Canso	1.98	1.91	2.45	549	550	573	554	19	0	74312	74707	75695
59C-402	Canso	4.41	4.25	5.46	1877	1887	1343	1252	89	2	343852	343703	344205
59C-403	Canso	3.42	3.30	4.24	746	751	777	691	79	7	68682	69486	70193
62H-301	Halifax	2.88	3.18	3.06	271	273	273	257	16	0	3420	3416	3586
62H-302	Halifax	4.39	4.84	4.65	2086	2088	2139	2059	78	2	13459	13497	13428
62H-303	Halifax	0.64	0.70	0.67	569	569	574	534	40	0	2621	2497	2497
62H-304	Halifax	3.16	3.49	3.35	2405	2407	2543	2412	130	1	12580	12641	12611
62N-411	Northern	6.39	8.92	8.18	1150	1145	1214	981	228	5	26491	26502	26516
62N-412	Northern	4.18	5.83	5.36	1025	1041	1091	919	172	0	18781	18840	18833
62N-413	Northern	6.28	8.76	8.04	2397	2410	2477	2277	185	15	210777	206371	206843
62N-414	Northern	6.86	9.57	8.78	2233	2251	2306	2076	213	17	199154	199564	199493
62N-415	Northern	3.37	4.70	4.31	1602	1601	1638	1582	48	8	163592	163478	165161
62N-416	Northern	6.69	9.33	8.56	2737	2743	2845	2652	182	11	171977	172133	172817
63V-311	Valley	1.13	5.77	3.93	1213	1227	1244	1155	83	6	37011	37008	37004
63V-312	Valley	0.75	3.86	2.63	1047	1058	1071	990	77	4	39474	39773	40364
63V-313	Valley	1.58	8.07	5.50	2057	2073	2114	1995	106	13	112486	113087	113157
65V-301	Valley	0.18	0.82	0.95	536	289	231	214	16	1	36976	26793	26808
65V-302	Valley	1.66	7.60	8.81	2225	2239	2285	2196	81	8	186360	186660	187545
65V-303	Valley	1.91	8.74	10.12	1877	1754	1800	1585	201	14	101083	88090	88430
67C-411	Canso	2.83	3.52	5.72	1651	1678	1750	1605	138	7	367819	370454	372694
67C-412	Canso	3.50	4.36	7.08	1700	1714	1840	1684	153	3	329781	330389	332156
6N-301	Northern	4.16	4.11	4.35	899	899	930	930	0	0	28561	29478	29752

Feeder	Region	2021 Peak Load (MW)	2022 Peak Load (MW)	2023 Peak Load (MW)	2021 Customer Count	2022 Customers	2023 Customers	2023 Residential Customers	2023 Commercial Customers	2023 Industrial Customers	2021 Length (m)	2022 Length (m)	2023 Length (m)
6N-302	Northern	1.02	1.01	1.07	217	219	228	221	6	1	26587	22793	22793
70V-311	Valley	4.60	3.76	5.20	1740	1555	1549	1389	151	9	154366	134878	161556
70V-312	Valley	4.05	3.31	4.58	638	1034	1302	1245	48	9	86842	109599	109664
70W-203	Western	5.98	1.54	1.68	276	276	277	252	25	0	4696	4644	4639
70W-204	Western	2.98	0.77	0.84	273	274	277	247	29	1	3543	3531	3531
70W-311	Western	1.09	4.29	4.18	1107	1125	1172	1093	76	3	90615	91247	92083
70W-312	Western	0.94	3.70	3.60	971	979	999	955	43	1	15646	15674	16059
70W-313	Western	1.44	5.63	5.48	1984	1992	2033	1983	48	2	123944	124228	124579
70W-314	Western	0.70	2.76	2.69	604	611	632	511	120	1	5502	5462	5458
70W-321	Western	1.49	5.85	5.69	1613	1631	1682	1549	124	9	73112	73808	74416
70W-322	Western	1.13	4.45	4.33	968	1008	1028	921	106	1	14513	14510	14510
73W-411	Western	13.42	14.21	18.27	6015	6094	6233	6048	177	8	708885	724770	726658
73W-412	Western	1.21	1.28	1.65	166	166	173	108	59	6	10392	10629	10295
74N-411	Northern	3.92	4.39	5.22	851	847	887	823	56	8	37944	37992	38068
74N-412	Northern	1.35	1.51	1.80	668	671	703	651	48	4	109634	109371	110623
74V-301	Valley	8.66	1.59	2.20	79	79	84	40	38	6	11013	11024	11024
74V-302	Valley	0.00	0.00	0.00	8	8	8	8	0	0	547	547	547
76V-301	Valley		1.43	0.47	285	290	343	300	43	0	73062	72978	87924
77V-301	Valley	3.65	4.06	4.37	614	872	1114	980	130	4	12043	15748	15726
77V-302	Valley	3.68	4.09	4.41	1457	1473	1525	1422	101	2	149866	150818	152549
77V-303	Valley	4.72	5.24	5.64	1479	1228	977	768	188	21	53662	50851	50864
77V-401	Valley	6.95	3.18	3.42	1316	1324	1374	1214	149	11	125891	127040	128462
78W-301	Western	9.20	2.14	2.77	766	676	792	779	10	3	79478	66844	79916
78W-302	Western	5.80	1.35	1.74	456	461	464	439	19	6	33082	33164	33319
79V-401	Valley	6.04	11.27	11.61	2493	2519	2566	2399	150	17	163934	165075	164771
79V-402	Valley	9.17	17.11	17.63	3119	3180	3292	3002	273	17	93258	94451	95054
79V-403	Valley	3.84	7.16	7.38	1511	1538	1579	1455	113	11	89462	86904	87389
7N-301	Northern	4.28	5.41	4.66	1448	1467	1514	1382	122	10	128572	129171	130697
7N-302	Northern	1.22	1.54	1.33	457	462	455	436	19	0	88283	89725	89958
80W-301	Western	10.08	4.63	6.01	686	697	710	690	20	0	62493	62953	64096
80W-302	Western	0.04	0.02	0.02	2	2	2	2	0	0	1933	1903	1903
80W-303	Western	0.00	0.00	0.00	1	1	1	1	0	0	169	169	153
81N-411	Northern	9.12	9.23	9.70	1376	1399	1446	1252	170	24	111280	111353	111960
81N-412	Northern	9.18	9.28	9.75	2630	2664	2738	2585	137	16	326743	329479	319399
81S-301	Sydney	2.59	3.20	4.33	1197	1200	1235	1193	39	3	22338	22334	22586
81S-302	Sydney	4.18	5.16	6.98	1658	1663	1730	1661	65	4	50341	50785	50815
81S-303	Sydney	5.06	6.26	8.46	2113	2112	2204	2144	54	6	80971	81173	81172
81S-304	Sydney	2.82	3.48	4.71	955	955	995	933	62	0	14164	14200	14201
81S-305	Sydney	3.95	4.88	6.60	1653	1657	1712	1594	115	3	26220	26236	26286
81S-306	Sydney	3.66	4.52	6.12	1647	1648	1721	1637	80	4	33042	32898	32895
81S-307	Sydney	1.40	1.74	2.35	715	714	737	726	10	1	12592	12598	12581
82S-302	Sydney	0.78	1.16	1.80	251	249	253	234	18	1	5171	5171	5171
82S-303	Sydney	1.99	2.98	4.61	1412	1415	1473	1407	65	1	32605	32601	32663
82S-304	Sydney	1.64	2.46	3.80	1208	1213	1259	1238	21	0	38219	38256	38380
82V-401	Valley	12.62	15.45	16.71	2734	2698	2912	2717	171	24	166681	158940	160003
82V-402	Valley	11.85	14.51	15.69	2570	2640	2682	2587	84	11	147355	148413	150068
82V-403	Valley	2.72	3.33	3.60	842	847	864	831	26	7	58025	57885	58849
82V-422	Valley	8.24	9.15	12.08	2552	2587	2668	2490	169	9	71036	71503	71552
82V-423	Valley	9.76	10.84	14.31	2853	2902	3054	2782	258	14	262082	264606	266244
83V-301	Valley	1.03	3.60	4.50	1007	1016	1051	955	60	36	84193	84261	84592
83V-302	Valley	1.93	6.72	8.41	1932	1951	1962	1732	224	6	22055	22021	22018
83V-303	Valley	1.15	4.00	5.01	1074	1082	1115	1079	32	4	135435	136189	136473
84S-302	Sydney	2.75	3.20	3.31	249	249	251	191	57	3	24000	24065	24012
84S-303	Sydney	0.11	0.13	0.13	1	11	11	3	7	1	2869	5367	6209
84S-305	Sydney	3.11	3.62	3.75	258	259	280	150	128	2	18199	18199	18199
84W-301	Western	1.82	7.18	6.62	1286	1310	1351	1183	149	19	101392	101538	101874
84W-302	Western	1.19	4.69	4.32	888	890	925	814	106	5	28146	28136	28115
85S-401	Sydney	4.55	5.67	7.56	2207	2207	2309	2020	287	2	257195	257116	259616
85S-402	Sydney	0.63	0.79	1.05	513	517	534	498	36	0	120425	120976	121618
87H-311	Halifax	3.76	5.25	3.70	1189	1206	1229	1200	24	5	63721	64098	64792
87H-312	Halifax	4.39	6.13	4.32	1190	1210	1243	1167	70	6	86737	87196	88233
87H-313	Halifax	5.27	7.36	5.18	1841	1867	1970	1898	69	3	156237	157464	160740
87W-311	Western	13.66	3.96	6.13	1811	1836	1893	1789	98	6	94265	94684	95941
87W-312	Western	10.45	3.03	4.69	1579	1598	1646	1563	73	10	119395	119848	120748
88H-401	Halifax	6.29	7.04	7.06	1618	1642	1684	1584	96	4	262478	263487	265204
88H-402	Halifax	9.21	10.31	10.34	1512	1522	1669	1591	72	6	281772	282809	307326
88W-311	Western	9.63	5.41	6.77	849	865	872	769	102	1	21840	21892	21991
88W-312	Western	11.82	6.64	8.30	1764	1774	1844	1694	135	15	46360	46461	46642
88W-313	Western	8.42	4.73	5.92	1048	1048	1084	840	237	7	11840	11841	11826
88W-314	Western	7.32	4.12	5.15	750	756	774	675	88	11	34887	34995	35005
88W-322	Western	7.29	3.40	2.78	398	399	425	297	123	5	24500	24497	24779

Feeder	Region	2021 Peak Load (MW)	2022 Peak Load (MW)	2023 Peak Load (MW)	2021 Customer Count	2022 Customers	2023 Customers	2023 Residential Customers	2023 Commercial Customers	2023 Industrial Customers	2021 Length (m)	2022 Length (m)	2023 Length (m)
88W-323	Western	7.88	3.68	3.00	1387	1397	1438	1328	98	12	98197	98789	97770
89W-301	Western	2.49	2.70	3.32	368	366	371	326	44	1	10043	9996	10028
89W-302	Western	5.46	5.92	7.28	1263	1271	1300	1229	65	6	53294	53278	53571
89W-303	Western	3.80	4.12	5.07	1351	1380	1409	1333	68	8	112082	113116	115997
89W-304	Western	2.05	2.22	2.73	335	342	349	287	60	2	25392	25523	25622
91W-411	Western	13.71	4.26	3.27	1159	1182	1209	1175	33	1	157571	156623	157474
92H-331	Halifax	5.88	7.95	10.97	2360	2389	2451	2335	113	3	120119	120096	121787
92H-332	Halifax	3.67	4.96	6.84	1094	1111	1141	1051	88	2	45487	45489	44275
92H-334	Halifax	3.01	4.07	5.61	1154	1167	1191	1165	25	1	47758	47759	47819
92W-302	Western	15.86	2.09	2.45	914	926	954	934	18	2	169448	170957	175697
93V-311	Valley	0.94	4.31	4.82	1128	1140	1166	1035	114	17	83466	83779	84216
93V-312	Valley	0.89	4.08	4.56	658	659	806	667	124	15	37054	36948	41985
93V-313	Valley	1.18	5.42	6.06	2052	2072	1974	1864	107	3	184200	187978	187041
93V-314	Valley	0.01	0.04	0.04	23	24	24	9	12	3	2758	2651	2025
96H-411	Halifax	2.98	4.15	3.00	1784	1790	1876	1753	113	10	188880	188788	189081
96H-412	Halifax	1.04	1.45	1.05	894	683	964	926	35	3	149329	121360	147245
99H-311	Halifax	5.71	6.09	7.36	1961	1964	1999	1840	153	6	12391	12374	12374
99H-312	Halifax	4.75	5.06	6.12	907	915	928	771	150	7	18541	18516	18511
99V-311	Valley	2.43	5.16	6.67	1088	1093	1102	990	110	2	22868	22876	22874
99V-312	Valley	2.06	4.37	5.65	1281	1288	1315	1254	45	16	35449	35998	35995
99V-313	Valley	0.89	1.89	2.44	316	321	345	302	42	1	8772	8843	8913
99V-314	Valley	2.79	5.91	7.64	2012	2036	2067	1978	88	1	206789	214279	215159
9C-301	Canso	0.31	0.39	0.59	5	5	5	2	1	2	12007	12007	12007
9C-302	Canso	0.01	0.01	0.01	6	4	4	4	0	0	2974	2974	2974
9C-303	Canso	0.21	0.26	0.39	217	220	232	221	11	0	56973	56492	57879
9C-304	Canso	0.10	0.12	0.18	70	71	73	70	3	0	10665	10717	10717

NON-CONFIDENTIAL

Request DR-41:

Please explain how NS Power proposes to allocate distribution costs. If the proposal is anything other than class contributions to substation or feeder peaks, please provide a rationale for the proposal.

Response DR-41:

NS Power proposes that the Minimum System (MS) Method, as provided in Concentric's evidence, filed in the 2023-2024 GRA, be implemented.

Due to the controversy with stakeholders, which arose around the dated judgmental techniques used by NS Power until the 2013 GRA, NS Power proposed to implement a MS method which is well established and commonly used in the electric industry. It is based on cost causation and relatively easy to implement.

Also, please refer to SBA DR-4 Attachment 1 for details around costing treatment of distribution costs in the COSS. NS Power understands that the question is concerned with a broader costing treatment of distribution in the COSS comprised of sub-functionalization of some distribution costs into primary and secondary voltage, classification to customer and demand, and allocation. As far as allocation goes, demand-related distribution costs are apportioned to rate classes based on their relative shares in the total of class annual non-coincident demands, and customer costs are apportioned on the basis of class shares in total customer counts.

NON-CONFIDENTIAL

Request DR-42:

Please provide any information available to NS Power regarding the load that various classes, or sub-groups within those classes, impose on the distribution equipment that serves that class.

Response DR-42:

Load shapes by customer class are developed each year using load research meters, and more recently, AMI data (please refer to CA DR-58). These load shapes enable the calculation of peak load contribution by customer class, which is used by system planning to estimate the impact of new customer loads.

Request DR-43:

Please provide the rules, regulations and formulae that NS Power applies in determining how much of the distribution investment it will bear as a function of anticipated sales, revenues, or other expected metrics of new customers, and how much will be charged to the new customer or developer.

Response DR-43:

For either new customers or developers, anticipated sales, revenues, or other metrics do not influence the distribution investment born by the two parties.

Please refer to Attachment 1 for a copy of NS Power Regulation 2.6 and 2.12 approved by the NSUARB.

2.6 OVERHEAD LINE AND SERVICE EXTENSIONS

Line and service extensions shall be erected and owned by the Company. Where it is necessary to build on private property other than the customer's property, the customer is responsible for obtaining a registerable right-of-way in the Company's name and in a form satisfactory to the Company. Where it is necessary to build on the customer's property, the customer must grant to the Company a registerable easement in a form satisfactory to the Company.

In all cases involving private property, the customer is responsible for having the right-of-way suitably cleared of trees, bushes and undergrowth to the Company's satisfaction.

The Company will normally provide to its customers, a maximum of 92 metres of line or service extension, or 92 metres of line and service combined. The Company shall provide to a year round residence, which the Company is satisfied is the customer's permanent, primary, or principal residence, an additional 100 metres of line extension along a public road for each year that the residence has been continuously occupied prior to the request for service, to a maximum of 1,600 metres. The customer shall contribute to the cost of all extensions over and above these provisions.

However, in an area where line and/or service provisions previously existed, the Company shall provide a similar new extension at a reduced cost to the customer, based on the following formula wherein the indicated timeframes represent that period of time which has elapsed since the previous line/service facilities were removed.

Elapsed Time	Percent Customer Contribution
Up to 1 year	0
Year 1-2	20%
Year 2-3	40%
Year 3-4	60%
Year 4-5	80%
After 5 Years	100%

Where the new requirement represents or indicates an expansion or upgrade of the prior facilities, the reduced contribution will only be applicable to costs associated with an equivalent service provision.

2.6 OVERHEAD LINE AND SERVICE EXTENSIONS

A service extension is normally terminated on the customer's building. Should it be necessary to terminate a service on a pole, or if the customer, for any other reason, requires that the Company provide an additional pole not normally required in the opinion of the Company, the customer will be required to make a capital contribution towards the cost of a pole supplied, installed and owned by the Company. The customer must supply the weatherhead, conduit and meter base necessary to receive service.

2.12 REFUNDS OF CAPITAL CONTRIBUTIONS

Line/Service Extensions Less Than 184m

Customers will be provided with 92 metres of line/service extension at no cost, as provided for under Regulation 2.6. Any line/service extensions in excess of 92 metres will be at the cost of the customer. If any additional customers are connected to a contributed line/service extension, they will not be required to contribute to the shared portion of line, but will be responsible for the cost of any service extensions in excess of 92 metres. For each additional customer connected to a contributed portion of line within ten years from when the line was made available, the person who made the contribution will be entitled to 46 metres of equivalent line cost minus a 10% administration fee to a maximum of 90% of the total contribution.

Line/Service Extensions Longer Than 184m

Customers will be provided with 92 metres of line/service extension at no cost. Any line/service extensions in excess of 92 metres will be at the cost of the customer. If any additional customers are connected to a contributed line/service extension, they will be expected to contribute to the cost of any shared line plus contribute the cost of any dedicated line minus a credit for 92 metres of equivalent line cost.

Customers who have paid a capital contribution will be entitled to a refund each time additional customers are connected to the line within ten years of the date of the customer's capital contribution. The refund will be the difference between the net capital contribution paid to date and what would have been required if the additional customers had attached at the time the contribution was paid. Any refunds will be reduced by 10% as an administration fee. The maximum refund a customer can receive is 90% of the original contribution.

Notwithstanding the above, no refunds of capital contributions associated with any line/service extension will be made after such line/service extension is more than fifteen years old.

Request DR-44:

Please provide NS Power's most recent line-loss study and an update on the ongoing line-loss study.

(a) Please provide the derivation of line losses by voltage from the line-loss study and describe how the ongoing line-loss study will vary from that method, if at all.

Response DR-44:

Current line loss estimation is based on historic class values (please refer to Attachment 1, which includes context from the 2013 COSS DR process regarding this methodology). The methodology from the ongoing line-loss study has not yet been determined and updates will be provided to stakeholders as the study progresses.

2013 Cost of Service Study
NSPI Responses to Consumer Advocate Data Requests

NON-CONFIDENTIAL

Request DR-6:

Derivation of "line losses," "demand line-loss adjustment," and "requirements" in "Input Data Two"

Response DR-6:

The forecast of line losses is assigned to rate classes based on historical patterns developed in prior COSS. These patterns assign higher proportions of losses to classes served at lower distribution voltages, and losses are also higher during times of high system loading. This method does require some adjustments and scaling on an hourly basis to ensure that the profiles sum to the correct annual energy. The overall target for the assignment of line losses is to match the average of the last 3-years of annual booked losses.

Line losses are assigned on an hourly basis. Demand line losses are line losses at the hours of peak demand and are generally higher than average line losses (monthly average) due to the increased loading on the system during those peak hours.

The term “requirements” refers to the required generation to meet the customer demand. It is calculated as the sum of the class demand and the class losses.

NON-CONFIDENTIAL

Request DR-7:

Why do loss factors vary among classes served at secondary? Reconcile Exh 9A col 7 with loss factors in Exh 9b

Response DR-7:

Losses are assigned patterns according to voltages, and losses are also higher during times of high system loading. For customers served at the secondary, there is a mix of service voltages, 3-phase and single phase customers within the class, and different classes tend to peak at different times of the day and affect system load, hence losses, differently.

Energy losses by voltage levels were originally developed in the late 1970s from engineering estimates and were modified on an ongoing basis, taking into account changes in total system loss percentages and ongoing system modifications. The last time these percentage loss factors were updated was at the time of the 1996 GRA proceeding.

NON-CONFIDENTIAL

Request IR-74:

Regarding the responses to DR CA-2 and CA-6, please provide the following documentation of the load inputs to the 2014 COSS, or to the most recent COSS for which the described process was followed:

(a) NSPI's spreadsheets and workpapers showing

(i) the assignment of losses to rate classes based on "historical patterns developed in prior COSS," distribution voltage and system loading and

(ii) the "adjustments and scaling on an hourly basis to ensure that the profiles sum to the correct annual energy."

Response IR-74:

In order to avoid providing an overwhelming amount of information, the detailed loss calculations and allocation information has been provided for one month (672 data points), rather than for an entire year (8760 data points). The peak month for 2013 used in the most recent GRA was selected anticipating it would generate the highest level of interest from stakeholders. The accompanying spreadsheet to this narrative details the loss allocation, by rate class, for the month of February 2013. The 2010 load shapes, derived from load research data, and the 2012 load forecast are used as the starting points for this analysis.

The challenge is allocating the typical 6.5% - 7% of annual load that is due to line losses on the grid amongst the 13 customer rate classes on an hourly basis. Line losses can vary for a number of reasons including overall loading on the grid and the specific generation configuration that is operating (transmission system losses) and the customers' service voltage, load profile and other service factors (distribution system losses). As a guide and for consistency, we also look to the loss allocations from previous years that were assessed and agreed upon.

The main constraints when completing the analysis are:

- The total energy must match the forecasted energy requirement for each class
- The sum of the system losses must match the forecasted system losses
- The system peak must match the forecasted peak and typically occurs at the same peak time as the peak from the reference year (ie: year the load shapes are from)
- The losses as a percentage of sales for each class must align with historical values

The task of allocating 8760 hours of load between the 13 rate classes results in over 100 thousand hourly loads to estimate for a year with only these general constraints to guide the estimation.

In recent years, to aid in allocating the losses, a mathematical approach was used which made simple estimates of hourly load based on class load and overall system load. These expressions attempted to embrace line loss characteristics due to heating of conductors and windings and magnetization of transformers, with squared, linear and constant terms to represent them. Using an iterative approach, these allocations are created, assessed and adjusted until they are reasonably aligned to previous estimates of class losses.

Trying to allocate losses amongst the 13 different rate classes in an equitable way while meeting the constraints listed above can be quite a time consuming and onerous undertaking and requires a fair amount of professional judgment where often the best benchmark is historical values.

Through the Cost of Service proceeding, NS Power would be interested in changing this process and working with stakeholders to see if an alternative or simplified method can be determined.

One possible option to be explored is moving to a more simple assessment as some utilities do, by assigning constant loss percentages to each customer class, regardless of the hour. This would make the process more transparent and easier to understand as well as speed the COSS process up considerably.

Request DR-45:

Please provide the basis for the allocation of service drop costs. If the allocation of service drop costs uses estimated of typical service line characteristics (length, conductor type and size, and UG/OH), please provide the basis for those assumptions.

Response DR-45:

The annual service drop costs, totaling $7,541 thousand in the 2023 test year,[1] reflect depreciation expense of secondary voltage service lines.[2] It does not include depreciation expense of service poles or primary voltage service lines which are included in feeder pole and line cost categories.[3] It does not include any OM&G costs, as these costs are included in the Distribution Operating Expenses associated with Overhead lines.[4]

The service drop costs are classified 100% to customer and allocated to rate classes based on class relative shares in the entire customer-related distribution rate base as provided in row (30) of Exh 8B of the 2023 COSS. The details behind customer-related distribution rate base by asset groups are provided in rows (17) to (31) of Exh 3a. The class rate base associated with service drops is only one of several distribution asset groups which are reflected in the above allocation factors.

The service drop rate base account is reflective of investment in the secondary voltage service lines. It does not include service poles or primary voltage service lines which are included in the feeder overhead line and pole accounts.[5]

The class responsibilities for the service line rate base is determined through application of weighted customer counts displayed in row (8) of Exh 8a. The weights themselves, which are

[1] Please see row (37) of Exh 6d of the 2023 COSS.
[2] 5200 Services Distribution Plant Account.
[3] Please see rows (33) and (34) of Exh 6d of the 2023 COSS.
[4] Please see row (17) of Exh 6a of the 2023 COSS
[5] Please see rows (23) and (24) of Exh 3a of the 2023 COSS.

displayed in row (7), have not been revised, with the exception of the Unmetered class, since the 2002 GRA.[6] NS Power does not have the detail of how these weights were determined but understands that the weighting is meant to reflect differences in costs per customer among rate classes. The "service drops" is the only rate base category which is currently apportioned to rate classes based on the weighed customer counts in the COSS. Consistent with the NSUARB's 2013 COSS decision,[7] NS Power proposes that this method remain in effect in the interim only pending collection of empirical service drop utilization data on the basis of which new allocators could be developed.

[6] Please note that the customer count weight for the Unmetered Service was revised from 5.0 to 0.82 in the 2007 GRA (NSUARB-NSPI-P-886 2007 NSUARB 8 Decision, Settlement Agreement para 13.
[7] M05473 para 92 and 93.

NON-CONFIDENTIAL

Request DR-46:

Please explain how the number or cost of poles changes as customers are added along a street with existing electric service.

(a) If a new customer requires three-phase service, but single-phase service is currently provided to the service, please explain whether the customer is responsible for any of the costs of installing additional conductor and related upgrades on the distribution system.

Response DR-46:

(a) In this scenario, the customer would be responsible for the capital contribution required for the additional two phases. If the poles require replacement to support the additional phases, the customer would only pay the advancement charges which are a function of the age of the poles being replaced. The customer would pay less for the replacement of older poles. Additionally, the customer would get a credit for any salvageable material recovered as part of the construction.

NON-CONFIDENTIAL

Request DR-47:

Please explain whether NS Power typically serves a multi-family building with a single service, or with a separate service for each customer.

Response DR-47:

Typically, with a multi-dwelling unit building, NS Power provides one electrical service supply which branches out into the required number of individual metered consumer services.

Request DR-48:

Please provide any data available to NS Power regarding:

(a) The overall number and length of service drops.

(b) The number and length of service drops by class.

(c) The overall mix of service-drop wire types.

(d) The mix of service-drop wire types by class.

(e) The percentage of residential customers served off shared service drops, as in multi-family buildings.

(f) The percentage of residential customers living in multi-family buildings, and the distribution of those customers by number of units per building.

(g) The percentage of small commercial customers served off shared service drops, as in office buildings and shopping centers.

Response DR-48:

(a) There are 468,144 service drops. NS Power does not have specific data related to the lengths of service drops. For the 42 Feeder Sections sampled in the Minimum System Study completed in 2022 there were a total of 12,774 Service Drops with a combined service drop length of 379.4 km.

(b) The number of Service Drops by class are as follows:

Class Code	Description	Count
CB	Commercial – Bi-Monthly	20,409
CM	Commercial Monthly	17,808
DB	Domestic Bi-Monthly	487,030
DM	Domestic Monthly	123
DT	Domestic Time of Day	13,244
IB	Industrial – Bi-Monthly	683
IM	Industrial Monthly	1,570
LM	Large – Monthly – New – LCB Rates	43
NB	Non-Profit Domestic - Bimonthly	2,225
NM	Non-Profit Domestic Monthly	199
NS	Nova Scotia Power Accounts	564
OB	Other - Bimonthly	48
YM	Large – Monthly – Curr LCB Rates	6

(c) For the 42 Feeder Sections sampled in the Minimum System Study completed in 2022, the specific data related to the overall mix of service drop wire types is as follows:

Service Drop Wire Types	Length (Km)
AASC Triplex Poly #2	30.53
AASC Triplex Bare #2	0.25
AASC Triplex Poly 1/0	108.45
AASC Triplex Bare 1/0	1.02
AASC Triplex Poly 2/0	0.40
AASC Triplex Poly 4/0	1.34
AASC Triplex Poly #4	0.41
AASC Triplex Poly AWG	0.13
AASC Triplex Poly 250 MCM	0.05
ACSR Triplex Poly #1	0.06
ACSR Triplex Poly #2	79.93
ACSR Triplex Poly #4	0.66
ACSR Triplex Poly 1/0	105.24
ACSR Triplex Poly 2/0	2.38
ACSR Triplex Poly 4/0	0.07
ACSR Triplex Bare 1/0	0.62
ACSR Triplex Poly 4 AWG Copper Triplex Poly #2	0.33

Service Drop Wire Types	Length (Km)
Copper Triplex Poly #2	33.19
Copper Triplex Poly #4	2.91
Copper Triplex Poly 1/0	9.63
Copper Triplex Poly 2/0	0.05
Copper Triplex 4/0	0.09
ASC Triplex Poly 1/0	0.02
ALU Triplex Poly 1/0	1.65

(d) NS Power does not have specific data related to the mix of service wires by class.

(e) 21 percent of NS Power residential customers are served off shared service drops, as in multi-family buildings.

(f) Of the 21 percent of NS Power residential customers living in multi-family buildings, the distribution of those customers by number of units per building is as follows:

# of Customers	# of Instances	# of Units (Ranges)
30,451	11,190	2 to 10
15,307	1,065	11 to 25
13,356	369	26 to 50
26,054	384	51 to 100
18,245	131	> 100

(g) NS Power does not have specific data related to the percentage of small commercial customers served off shared service drops, as in office buildings and shopping centers.

NON-CONFIDENTIAL

Request DR-49:

Please explain how NS Power proposes to determine the service-drop costs for streetlighting and provide the definition of what constitutes a service drop for a streetlight on a utility-owned pole?

Response DR-49:

For the explanation of how the service drop costs for the Unmetered Class are estimated please refer to CA DR-45.

As indicated in response to CA DR-45, service drop costs in NS Power's COSS do not include the cost-of-service poles.

Streetlights are attached to the utility-owned poles and are fed from the secondary distribution system (120/240V) through a small service connection.

NON-CONFIDENTIAL

Request DR-50:

Please explain who owns the conductors between the shared primary system and the customer meter, and explain how NS Power proposes to determine the utility-owned service-drop costs for primary customers.

Response DR-50:

The conductor between the shared primary system and the customer meter is owned by NS Power. The primary voltage service drops are currently included in the distribution feeder costs and are sub-functionalized to the primary voltage and allocated as such to all distribution customers connected at a primary and secondary voltage. NS Power proposes that this matter along with all other costing matters associated with service drops be deferred pending collection of empirical service drop utilization data on the basis of which new allocators could be developed. Please refer to CA DR-45 for more details.

NON-CONFIDENTIAL

Request DR-51:

Please provide the basis for the estimate of (weighted) meter costs by class.

Response DR-51:

Please refer to Attachment 1.

NON-CONFIDENTIAL

Request IR-55:

Please provide the most recent analysis of weighted meter costs, including all Excel spreadsheets (with formulas intact), data, assumptions, and other supporting workpapers.

Response IR-55:

Please refer to calculations in EXHIBIT 3I "ANALYSIS OF AVERAGE METER INVESTMENT" in SR-01Att 02 to 04 PCON UPDATED. The analysis is self-contained within the COSS spreadsheet. There are no external calculations involved.

The average meter investment by class in column (5) METER COST ($000) is determined as a product of class shares in column (4) PERCENT and annual distribution meter rate base in cell F39 in Exhibit 2.

The factors in column (4) PERCENT represent class shares in total meter purchase cost in column (3) TOTAL COST. Individual class values in (3) TOTAL COST are determined as products of each class UNIT METER COSTS in column (2) and TOTAL CUSTOMERS in column (1).

The (2) UNIT METER COSTS column contains actual procurement cost per meter applicable to each rate class. These costs were updated for the purpose of this Application due to the deployment of new AMI meters which took place after these costs had been set in the 2013 COSS proceeding[1].

[1] (M05473) para [168], item 1 (e) Update meter costs.

Request DR-52:

Please provide the percentage of customers metered at primary who own their transformers and explain how NS Power proposes to account for transformer ownership in the COSS.

Response DR-52:

There are 64 customers metered at primary voltage who own their transformers. They represent 23 percent of all the primary voltage connected customers.

All customers who own their transformers get a transformer ownership credit of 32 cents per kVA. The credit is not accounted for directly in the COSS. Rather, it is an outside of the COSS calculation at the rate design stage where the customers from the Large General, Large Industrial and Municipal rate classes form separate subgroups in the Proof of Revenue calculations having this credit explicitly accounted for.

Customers who own their transformers from the General, Small Industrial, and Medium Industrial classes are not explicitly accounted for in the Proof of Revenue calculations due to their relatively small share of total class revenues. The transformer ownership credit amounts in these classes are blended with demand charge revenues in the Proof of Revenue calculations.

The transformers that step power down from one primary voltage level to another, such as from 24 kV to 12 kV, from 24 kV to 4 kV or from 12 kV to 4kV, are referred to as “General Transformers” and are 100 percent classified to demand and apportioned to rate classes based on class non-coincident demands at bulk power substations. Please refer to column (3) “DIST. GENERAL” in Exhibit 3b in the 2023 COSS.

The use of the class non-coincident demands at the bulk power substations, listed in line (9) of Exhibit 9b, is intended for allocation of investment in distribution bulk power transformers rather than the general transformers. Please refer to column (2) “DIST. BULK PWR” in Exhibit 3b in

the 2023 COSS. The investment in general transformers should be apportioned to those customers that utilize them based on their non-coincident demands at the primary level listed in line (5) of Exhibit 9b. Under the current design the customers connected directly to the bulk power transformers are apportioned the costs of the general transformers which is inappropriate. This should be corrected going forward. Also, please refer to CA IR-05 from the 2023-2024 GRA (M10431).

Request DR-53:

Please explain how NS Power provides customer service to large customers (e.g., customer representatives) and how those costs are recorded and allocated.

Response DR-53:

NS Power provides customer service to large customers through the Company's contact centre, which handles all phone calls (service connections, disconnections, support services, etc.) or emails received from large customers. NS Power also provides support through commercial and key accounts support representatives which provide information and customer service in relation to a wide array of large customer electrification initiatives or service-related items. All costs are tracked at the departmental level and included in the Customer Service cost category which are then allocated to customer classes based on the Cost-of-Service Methodology.

For the description of allocation of Customer Service costs to rate classes please refer to Section Operating Expenses (Exhibits 4 to 6) on pages 9 to 11 of the Cost-of-Service Methodology, filed in the 2022-2024 GRA[1], included in Attachment 1.

[1] M10431, 2022-2024 GRA SR-01 Att 01 UPDATED.

Nova Scotia Power

Cost of Service Study Methodology

January 2022

1. Overview

This report summarizes the methodology for developing the Cost of Service Studies. For the 2022-2024 GRA, the Cost of Service Studies are provided as **SR-01 Attachments 2, 3,** and **4.**

From a cost-of-service methodology perspective, NS Power's customers fall into two broad categories, Below-the-line (BTL) and Above-the-line (ATL). The Cost of Service methodology subject to discussion in this section is concerned with the cost allocation to ATL classes only. Before costs are allocated to ATL classes, the total cost responsibility of this group must be determined by subtracting costs associated with serving BTL classes from the total revenue requirement of the Company.

The overall objective of a cost of service study is to determine the costs associated with serving each customer class, and to identify any inter-class inequities that may be present with regard to over or under contribution to total allocated costs. This determination is based on a comparison of revenue/cost (R/C) ratios.

The first step in preparing a Cost of Service Study (COSS), once the test period is established, is to collect the detailed financial and operating information pertaining to that period. The data accumulated includes estimates for: plant-in-service, construction work in progress (CWIP), reserve for depreciation, working capital allowances, deferred charges, deferred credits, contract receivables, revenues, operating expenses, energy sales and demand statistics and customer counts.

The Cost of Service Study allocates the costs (therefore the revenue requirement) of providing electric service by the Company. This includes the appropriate assignment of operating and maintenance expenses, grants in lieu of taxes, depreciation and responsibility for interest and corporate taxes incurred on those elements of the electric utility plant in service that are necessary in whole, or in part, to provide electric service to the various classifications of utility customers, as well as an approved return on investment.

Where possible, costs are assigned directly to classes of service based upon information acquired from the financial books and records of the Company or through additional analyses or studies.

Costs not directly assigned are analyzed by functional responsibility in groupings of accounts, such as production, transmission, distribution and retail. These groupings are then allocated to the various classes of service on the basis of the respective demands, energy use, number of customers, and/or revenue associated with the functional responsibility appropriate for each class of service. In general, the demand component of cost comprises those items that are incurred in order to produce and deliver electric energy to customers as called for by them. Sufficient infrastructure must be installed to supply peak demand as required, while maintaining a required reserve margin.

Plant investment increases as units and facilities grow to meet demand. Consequently, these costs are allocated based on contributions to system coincident demand. Distribution facilities are allocated based on non-coincident demand to recognize that this infrastructure must be sized to provide that capacity. Class non-coincident demands are the demands that are imposed on the distribution system and, in general, are substantially larger than coincident demands. Consequently, the cost of service elements that increase with plant size and capacity are classified as demand costs.

Energy related costs are those items that vary with the annual volume of energy supplied to the various classes of service provided by the Company. The prime example of energy costs that vary with the volume of electricity generated and supplied is fuel costs. These costs increase as the quantity of fuel required to produce energy from generating units is increased.

The customer related costs are those items that vary with the number of customers served. An example is costs associated with customer care representatives in the Company's contact centre.

Costs associated with services related to miscellaneous revenues are not identified separately, rather these items are deducted from the overall cost assignment process.

Functionalization

The first step in the cost analysis is the **functionalization** of plant and expenses into the functional groups of production, transmission, distribution and retail. From the financial books and records of the Company, net plant investment is readily identifiable for production, transmission, and distribution functions. Likewise, expenses for operation and maintenance for production, transmission, distribution and retail are also readily identifiable. However, there are several components of plant, depreciation and expenses that are not available or identified on a production, transmission, or distribution basis. These items are functionalized prior to classification and allocation.

Classification

Following the functionalization step, production, transmission, distribution and retail plant and operating expenses are **classified**. Classification is the process by which plant and operating costs are determined to be demand, energy, or customer related.

Allocation Factors

The third step in conducting the cost study consists of the determination of those demand, energy or customer allocation factors that are necessary to allocate plant or operating expenses to the various classes of service.

Allocation

The fourth and final step is the **allocation** procedure. This step involves applying the allocation factors, determined in step 3, to the classified plant and operating expenses from step 2, to determine the overall cost assigned to each class of service based upon the total plant and expenses for the test period.

The Cost of Service Study is organized into 10 Exhibits (corresponding to tabs in the Excel model), as follows:

	EXHIBIT
COMPARISON OF REVENUE TO EXPENSE RATIOS	1
FUNCTIONALIZATION OF AVERAGE RATE BASE	2
INITIAL CLASSIFICATION OF AVERAGE RATE BASE	2A
FINAL CLASSIFICATION OF AVERAGE RATE BASE	2B
ALLOCATION OF AVERAGE RATE BASE	3
ALLOCATION OF AVERAGE DISTRIBUTION RATE BASE	3A
ANALYSIS OF AVERAGE DISTRIBUTION SUBSTATION RATE BASE	3B
ANALYSIS OF AVERAGE POLE INVESTMENT	3C
ALLOCATION OF AVERAGE POLE INVESTMENT	3D
ANALYSIS OF AVERAGE OVERHEAD WIRE INVESTMENT	3E
ALLOCATION OF AVERAGE OVERHEAD WIRE INVESTMENT	3F
ANALYSIS OF AVERAGE UNDERGROUND WIRE INVESTMENT	3G
ALLOCATION OF AVERAGE UNDERGROUND WIRE INVESTMENT	3H
ANALYSIS OF AVERAGE METER INVESTMENT	3I
FUNCTIONALIZATION OF OPERATING EXPENSES	4 & 4 Detail
CLASSIFICATION OF OPERATING EXPENSES	5
ALLOCATION OF OPERATING EXPENSES	6
RATE CLASS DISAGGREGATION ANALYSIS BY FUNCTIONAL AREAS	6.1
ALLOCATION OF DISTRIBUTION OPERATING EXPENSES	6A
ALLOCATION OF CUSTOMER SERVICE FIELD EXPENSES	6B
ALLOCATION OF CREDIT SERVICES EXPENSES	6C
ALLOCATION OF DEPRECIATION EXPENSES	6D
REVENUE ANALYSIS	7
DEVELOPMENT OF ALLOCATION FACTORS	8A & 8B & 8C
SALES, GENERATION AND DEMAND ANALYSIS	9A
DETERMINATION OF CLASS NON-COIN. KW DEMAND BY VOLTAGE LEVEL	9B
DETAIL OF MONTHLY CLASS COINCIDENT kW DEMAND	9C
SUMMARY OF REVENUE AND EXPENSE COMPONENTS - PROPOSED RATES	10

Exhibit 1 summarizes the results of the Cost of Service Study under present and proposed rates for the test period. The full analysis is provided in the various other exhibits.

- **Exhibits** in the **2 to 3** series detail the rate base analyses,
- **Exhibits** in the **4 to 6** series show the analyses of operating costs and depreciation expense.
- **Exhibit 7** contains the revenue analysis
- **Exhibits** in the **8** series detail the development of allocation factors.
- **Exhibits** in the **9** series show the analysis of sales and demand data.
- **Exhibit 10** details the demand, energy and customer costs along with the revenue by class and the resulting Revenue/Cost Ratios for the test period under proposed rates.

2. Methodology

The method of cost assignment utilized is the Load Factor/3 Coincident Peak (LF/3 CP) method, as approved by the NSUARB in its September 29, 1995 Order NSPI-864.

This method considers both the demand and energy requirements of the various customer classes in allocating generation and transmission responsibility. It respects both the maximum demands the class places on the system, as well as the extent to which the class uses the facilities on an ongoing basis.

A percentage of costs, equal to the system peak load factor percentage is considered energy related and allocated on the kWh at generation. The remaining costs are considered demand-related and are allocated based on the sum of three coincident peak demands at generation for December, January and February (the peak winter period). Environmental and fuel conversion assets in the rate base are extracted up front and classified 100% as energy-related.

Rate Base Exhibits 2, 2A and 2B

Exhibit 2 contains the net plant investment in the various asset categories, with allowance for working capital and allowance for materials and supplies.

In keeping with the Board's Decision[1] from the 2005 Rate Application, changes were made in this exhibit and subsequent rate base exhibits (**2A, 2B and 3**) to include construction work in progress (CWIP), deferred charges, and deferred credits.

The net plant investment, allowance for working capital, allowance for materials and supplies, deferred charges, deferred credits and contract receivables that are directly assigned are identified as the "Direct Capital" column in **Exhibit 2**. Direct capital is subtracted from the total company rate base to arrive at the amounts to be allocated among COSS-based rate classes.

Exhibits 3, 8 and 9

Exhibits 3, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I detail the allocation of rate base to the various customer classes.

The first allocation factors to be developed are those related to demand, energy sales and the number of customers. **Exhibit 9A** shows the projected energy sales for the test period and the quantity generated and purchased before line losses. Given these figures by class and the forecasted coincident peak demands by sector, load factors are applied to arrive at each class's demand contribution. **Exhibit 9B** makes use of the class non-coincident demands and the load levels of those customers known to take power at the various voltage levels, in order to arrive at the individual class responsibilities for non-coincident demand at the secondary and primary levels with losses included. These two exhibits provide the data necessary to calculate the demand and

[1] M05675, Decision 2005 NSUARB 27, March 31, 2005

energy allocation factors in **Exhibit 8**. The calculation of these factors is simply the class amount divided by the total. The remaining allocation factors are developed throughout as needed.

With the demand, energy and customer factors developed, the allocation phase proceeds. Steam, Hydro and LM6000 assets are allocated on the load factor and 3CP demand contribution, other gas turbine and grid-scale battery assets are allocated based on the 3CP demand only and wind assets are assigned 18% to 3CP demand and the remaining plant to energy.

Transmission plant is initially segregated between > 69 kV and < 138 kV voltage using a 76.6%/23.4% ratio. Both portions of these assets are classified on load factor and allocated on 3CP demand contribution to customer classes based on their required service voltage.

Distribution plant is more complex in its cost causalities than are the other functions. Substations are allocated in accordance with **Exhibit 3B**. The totals for each class are carried forward as class allocations of substation investment, as shown in **Exhibit 3**.

Pole and wire investment also requires a more detailed analysis since the total is made up of both demand and customer components. **Exhibit 3C** provides the breakdown of investments in distribution poles and **Exhibits 3E and 3G** of overhead and underground wire investment by voltage levels and class of service. The total pole and wire investment, broken down into primary demand and customer and secondary demand and customer, are allocated to rate classes in **Exhibits 3D, 3F and 3H** for poles, overhead lines, and underground lines, respectively by the appropriate allocation factors.

Line transformers that are used in the secondary system were allocated on secondary class non-coincident demands.

Services were distributed on a weighted customer basis.

Meter Investment is allocated in **Exhibit 3I**. The average unit investment cost of an installed meter for each class was determined. These costs when multiplied by the number of customers in each class provide the cost causation relationships required for developing the allocation.

The "Land" and "Other" assets, listed in **Exhibit 3A**, were allocated on the basis of total substation, pole and wire investments.

The "General Property Plant" investment listed in **Exhibit 3**, was allocated on the basis of all other plant investment. Finally, allowance for working capital, allowance for materials and supplies, deferred charges, deferred credits and contract receivables were allocated in accordance with their cost causalities as defined by the allocation factors used.

To provide more transparency in the allocation of streetlight fixture-related costs, the distribution-related rate base information in **Exhibit 3** has been separated between the streetlight-related versus non-streetlight related categories.

At this point, all Rate Base items have been assigned to the various classes recognizing the cost causation and cost utilization relationships as defined above.

Operating Expenses (Exhibits 4 to 6)

The analysis of operating costs begins in **Exhibit 4** with functionalization. In this step total operating costs are grouped according to production, transmission, distribution, retail and direct assignment. The "Direct Expenses" column contains those costs that are not to be assigned to ATL customer classes as they represent costs incurred by BTL customers. The "Corporate Groups" operating expenses have been assigned to each function based on their overall responsibility to each primary business operation within the Company. "Cost of Goods Sold" (Net of Retail Sales), "Grants in Lieu of Taxes", "Depreciation" (by function), "Interest" (net of AFUDC), "Preferred Dividends" and "Corporate Taxes" are assigned to each function based on various rate base functionalizations.

In **Exhibit 5**, the functionalized expenses from **Exhibit 4** are listed and sub-grouped, where necessary, in order to classify them as demand, energy and customer. To provide more clarity in the treatment of streetlight fixture-related costs they have been separated from all the other distribution-related costs to form a separate sub-group of the "Distribution Function".

Exhibit 6 summarizes the next stage of the study, which is the allocation of operating costs. First, those costs which are classified as "Demand" (generation, transmission and distribution) are allocated on the basis of the 3CP demand allocators. Consistent with the treatment of the streetlight fixture-related costs in **Exhibit 5**, these costs are shown separately in **Exhibit 6**.

Exhibit 6A contains the analysis of total distribution operating expenses broken down by demand, customer, and retail-related categories. The basic allocation premise used is that costs should be allocated in the same manner as their rate base counterparts.

Overhead feeder and underground line expenses were assigned in relation to the pole and wire and underground investments. Line transformers are secondary demand related. Service expenses were allocated to secondary customers. Metering expenses were allocated according to the meter investment per class. Communications is related to primary demand and street lighting was assigned directly to the unmetered class. **Exhibit 6B** details the analysis of customer service field expenses, for the distribution function, by class.

The second step requires the allocation of energy related costs such as fuel, purchased power, energy-related non-fuel costs, and operating and maintenance. These were allocated on the basis of energy generated and purchased.

Third, the customer related expenses are allocated. Again, the distribution costs are determined from **Exhibit 6A**. In **Exhibit 6**, the "Call Centre" was assigned using total weighted customers. "Customer Service – H/O" and "Billing Services" were assigned using average customers, adjusted for seasonality. "Quality Assurance and Communication", "Electrical Wiring Inspection" (head office) and "Payment Services" costs were assigned using average customers. "Marketing

and Sales" and "Meter Data Services" costs were allocated on the basis of defined responsibility commitments to each customer class.

Exhibit 6C details the allocation of credit services expenses. First, the "Bad Debt Expense" is split between domestic and all other classes based on gross write-off experience. The other portion of bad debt expense is assigned to each class based on secondary customer revenue. The other operating portion is distributed on the basis of average number of customers.

Depreciation is allocated by function as shown on **Exhibit 6D**. Consistent with the treatment of streetlight fixture related costs in **Exhibits 5 and 6**, they are shown as separate sub-components under the Distribution Function category. With the streetlight fixture depreciation cost information being available from the Company's accounting information system, it is applied directly for the direct cost assignment purposes.

In **Exhibit 6**, grants in lieu of taxes are allocated on the basis of total production, transmission, distribution and retail net plant. Interest (net of AFUDC), preferred dividends and corporate taxes expense are allocated on the basis of total rate base assignment from **Exhibit 3**. The total costs for each class are then determined and adjusted by non-rate revenue and the return (profit/loss) to arrive at the net cost to each customer class. The resultant total then becomes the input to rate design.

Revenue breakdown (Exhibit 7)

Exhibit 7 serves the purpose of verifying the accuracy of the cost allocation analysis. The ATL revenues are shown against revenues of other categories, determined outside of the COSS, and retained earnings from the financial tables.

Revenue to Cost Relationships (Exhibit 10)

Using the total allocated costs for each class, a comparison is made with the revenues for each class to determine the percentage revenue to cost relationships. The results are shown on **Exhibit 10**, under proposed rates for the test year.

Nova Scotia Power

Determination of Revenue Responsibilities By Rate Classes

January 2022

Apportionment of the revenue requirement among the rate classes is done through the Cost of Service Study (COSS).

From a COS methodology perspective, NS Power's customers fall into three broad categories:

- Electric service Above-the-Line (ATL) rate classes
- Electric service Below-the-Line (BTL) rate classes
- Non-electric service Miscellaneous revenues

The total cost responsibilities of the ATL classes are determined as the total system revenue requirement net of the revenues forecasted to be collected from the other two categories. Please refer to Exhibit 7 of the COSS spreadsheets[1] for the revenue forecasts from the BTL and miscellaneous categories.

Some of the cost increases described in the preceding sections of this Application which drive the revenue requirement increases for ATL classes also result in required increases to BTL and Miscellaneous revenues. BTL rates, also referred to as Annually Adjusted Rates (AARs), are rates normally recalculated and set annually based on pre-approved formulae and methodology. Demand Side Management (DSM) program costs for 2022, 2023 and 2024 do not form part of the revenue requirement. The DSM program costs will fall under the DSM Rider, as described in the Application.

There are several steps required to calculate the ATL revenue increase. First,

- Determine the annual ATL revenue requirement by subtracting revenues projected to be collected from the BTL classes and Miscellaneous revenues from the total system revenue requirement.
- Determine the total revenue shortfall from the ATL rate classes in each of the test year in the 2022-2024 period absent any change in the rates already approved to come into effect in 2022.

[1] SR-01 Attachments 02, 03, 04.

- Assign the above shortfall to the ATL classes by applying the following revenue allocation process.

Next,

1. Apply an across-the-board increase to all the ATL rate classes to eliminate the shortfall in revenue requirement.
2. Classes whose revenue to cost ratios fall outside of the 0.95 – 1.05 are set at the lower or upper bound of this range as appropriate generating an imbalance in recovery of revenue requirement which could either be a surplus or a shortfall.
3. Apply an across-the-board increase or decrease to all those ATL classes whose revenue to cost ratios fall within the 0.95 – 1.05 range.
4. In the event some class revenue cost ratios fall outside of the 0.95 – 1.05 range as a result of step 3 above repeat steps 2 through 4.

Please refer to **OR-01 Attachment 1** for the determination of revenue responsibilities by rate class in each year.

Nova Scotia Power

Fuel And Purchased Power Related Cost Of Service Methodology

January 2022

Nova Scotia Power Fuel and Purchased Power Related COS Methodology January 2022

Forecast fuel costs for each test year are first apportioned to above-the-line (ATL) and below-the-line (BTL) classes using procedural step 1:

1. A portion of the total fuel-related costs will be assigned to the following categories of non-FAM classes based on their fuel costing principles:

   The below-the-line bundled service rates for
   - Generation Replacement and Load Following (GRLF), 1P-RTP and Shore Power classes.
   - The Extra-Large Industrial Active Demand Control (ELIADC) class.
   - The unbundled tariffs: Open Access Transmission Tariff (OATT), Wholesale Market Backup/Top-up Service Tariff (BUTU)[1], Energy Balancing Service Tariff (EBS), Renewable to Retail Market Transition Tariff (RTT).
   - All remaining fuel-related costs will be allocated to ATL classes.

NS Power does not forecast energy uptake by customers under the EBS Tariff and RTT in years 2022-2024.

Consistent with the Cost of Service (COS) methodology, the Company forecasts the avoided costs of loads served under these classes and deducts them from the total fuel costs to arrive at costs attributable to the ATL classes.

The fuel costs are then allocated among the ATL classes by applying, with some modifications where appropriate, the procedural steps 2 through 5 for the allocation of plant fuel costs, purchased power costs and export revenue benefits.

[1] Starting in January 2023, fuel costs attributable to the BUTU class will be determined using the embedded cost allocation methodology applicable to the FAM customers.

2. For ATL classes, NS Power's fuel costs will be classified as 100 percent energy related. These costs will be allocated to each class based on its relative contribution to monthly energy requirement.

3. Fuel costs assigned to the Wholesale Market Non-Dispatchable Supplier Spill Tariff will be based on marginal fuel costs. For the Wholesale Market Backup/Top-up tariff, fuel costs will be based on marginal fuel costs for 2022 and embedded costs for 2023 and 2024.

4. Purchased power and Import costs will be classified to demand and energy as follows.
   a. In-province purchased power from wind generation will be segregated between Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS). Their classification between energy and demand related services will reflect concurrent generation planning practice of NS Power. For the rate setting purposes of the 2022-2024 GRA the Company attributed to demand 18 percent of installed wind capacity of both NRIS and ERIS projects.
   b. In-province purchased power from biomass generation will be classified between energy and demand in the same proportion as classification of total costs of the Port Hawkesbury biomass plant.
   c. In-province purchased power from all other sources than wind and biomass will be classified to demand and energy in the same manner as NS Power's fixed cost base load generation.
   d. Maritime Link imports under the Nova Scotia Block will be classified to energy and demand based on the system load factor associated with the above-the-line (FAM) classes.
   e. Non-firm imports will be all classified to energy.

The demand-related portion of these costs will be allocated to each class based upon its relative coincident contribution to the three monthly system peaks (3CP) occurring in December, January and February. The energy portion of these costs, except for the non-

firm imports, will be allocated to each class based on its relative contribution to annual energy requirement. Non-firm imports will be allocated to each class based on its relative contribution to monthly energy requirements.

5. Export revenues are allocated to ATL classes based on monthly energy requirements.

The revenue responsibilities for allocated fuel cost to the ATL classes are determined by applying the revenue-to-cost (R/C) ratios[2] applicable in the 2022-2024 GRA. in accordance with step 6.

6. In order to ensure that allocated fuel-related costs are aligned with the revenue expected from approved rates for each class, the costs will be scaled up or down using the revenue-to-cost ratio (R/C ratio) for each class. The resultant costs by class will then be reconciled to the total ATL fuel-related costs based on their relative share of the total fuel costs.

The unit fuel cost revenues by class are calculated by dividing allocated revenue responsibilities for fuel costs from step 6 by forecast class kWh sales for each test year. These unit fuel cost revenues are then used to replace the unit fuel cost charges embedded in the energy charges of the current rates.

[2] The Revenue to Cost ratios are provided in SR-01 Attachment 10,

Nova Scotia Power

Unmetered Services Pricing

January 2022

Updated February 2022

TABLE OF CONTENTS

1.0 INTRODUCTION 3

2.0 RATEMAKING METHODOLOGY FOR UNMETERED 4

2.1 Cost of Service Studies (COSS) 4

2.2 Pricing of Unmetered Services 4

2.3 Determination of Electric Service Rates 5

3.0 UNMETERED SERVICE STUDY 6

3.1 Schedule 1- Street and Crosswalk Lighting Inventory: Actual and Forecast 6

3.2 Schedule 2- Determination of Maintenance Costs by Fixture 7

3.3 Schedule 3- Determination of Average Installation Labour Costs Associated with Streetlighting Gross Assets 7

3.4 Schedule 4- Determination of Depreciation and Capital-related Costs by Fixture Type 8

3.5 Schedule 5 and 5A - Tax-Adjusted Weighted Average Cost of Capital 9

3.6 Schedule 6 and 7- Summary and Detail of Streetlight Material Costs 10

3.7 Schedule 8- Lamp Life Analysis 10

3.8 Schedule 9- Capital Cost Allowance (CCA) Calculation 10

3.9 Schedule 10 and Schedule 10 Smoothed- Street and Crosswalk Lighting Rates by Cost Component 10

APPENDICES

2022-2024 GRA SR-01 Attachment 14 Unmetered services calculations for 2022

2022-2024 GRA SR-01 Attachment 15 Unmetered services calculations for 2023

2022-2024 GRA SR-01 Attachment 16 Unmetered services calculations for 2024

1.0 INTRODUCTION

This report is filed in support of NS Power's General Rate Application (GRA). The report provides a description of unmetered services, an outline of the current ratemaking methodology and a detailed discussion of the calculations of streetlight rates.

The Unmetered Class includes three service categories in each of the bundled service and unbundled Renewable to Retail (RTR) markets.

1. Electric service only, applicable to
   - street and area lighting, and
   - miscellaneous loads with predetermined usage and where metering is considered impractical and for which no rates have been provided under the Street and Area Lighting rate.
2. Electric service combined with streetlight fixture maintenance.
3. Full charge rate - streetlight service, which includes electric service, maintenance, and capital.

The electric service in the unbundled market is comprised only of the distribution and retail service. There has not been service uptake in the unbundled market since its opening in 2016.

These services are eligible for unmetered service, based on the impracticality of metering their loads. Costs of metering these loads, which include capital meter costs and operational costs, are prohibitively high relative to the value of energy consumed, and/or the loads are highly predictable. All service categories involve consumption of electricity.

The fixture maintenance costs have a significant direct cost component. The capital costs of fixtures are treated as a direct responsibility of the unmetered class and are not shared with other rate classes. Street and Area lighting customers have a choice of maintenance service providers and fixture ownership. Consistent with the three types of streetlight services, there are six distinct types of streetlight charges: three in the bundled market and three in the unbundled market.

1. The streetlight rate reflective of all three services combined is referred to as a full charge rate.
2. Where the customer owns the fixture and NS Power performs the fixture maintenance, applicable rates include the electric service and maintenance charges.
3. Where the customer owns and maintains the fixture, only electric service charge is applied.

2.0 RATEMAKING METHODOLOGY FOR UNMETERED

The ratemaking methodology is comprised of two steps:

1. Determination of cost responsibilities of the Cost of Service Study (COSS)-based unmetered class, which is comprised of all costs of street and area lighting and miscellaneous loads.

2. Determination of revenue responsibilities of each service category by setting them at costs, as determined above, followed by individual service rate calculations.

2.1 Cost of Service Studies (COSS)

From a broad cost treatment perspective, costs of unmetered services can be categorized as those shared with other COSS classes and those assigned directly to the unmetered class.

2.2 Pricing of Unmetered Services

The Street/crosswalk Lighting Study contained below in Section 3, focuses on determining capital and maintenance costs. Revenue responsibilities for electricity, fixture maintenance, and fixture capital are aligned with costs of these services. Costs of unmetered services can be categorized as those shared with other COSS classes and those assigned directly to the Unmetered Class.

Most electric service costs are shared with metered classes and are assigned to the Unmetered Class using a three-step costing process consisting of functionalization, classification, and allocation. The cost responsibilities of the Unmetered Class are determined, as is the case with other classes, based on its cost causation and utilization of the electric infrastructure.

The fixture maintenance-related costs are made up of costs assigned directly to this class and costs shared with other classes.

The streetlight fixture capital related costs such as depreciation, financing costs and taxes are considered a direct responsibility of the streetlight customers.

However, the cost information for the above categories, except for depreciation, is only available in aggregate. Consequently, customer responsibilities for these costs cannot be determined by direct assignment. The capital costs associated with the fixtures are determined using the COSS-based cost allocation methodology.

2.3 Determination of Electric Service Rates

The unmetered rates for electricity, determined separately for the bundled and unbundled markets, are determined by applying miscellaneous lighting and miscellaneous small load rates to the pre-determined patterns and levels of energy consumption. The rate structure includes one demand charge and two declining block energy charges, applicable to energy blocks whose sizes vary with metered demand. The rates are changed in GRA proceedings.

3.0 UNMETERED SERVICE STUDY

Street and crosswalk lighting and area lights represent 95 percent of NS Power's unmetered service units and the total revenue collected from unmetered class customers. The following schedules have been updated to support the 2022-2024 study:

- Schedule 1 – Street and Crosswalk Lighting Inventory Levels: actual and forecast
- Schedule 2 – Determination of Maintenance Costs by Fixture Type
- Schedule 3 – Determination of Average Fixture Installation Labour Costs
- Schedule 4 – Determination of Depreciation and Capital-related costs by Fixture Type
- Schedule 5 – Tax-Adjusted Weighted Average Cost of Capital (WACC)
- Schedule 5A – Capital Cost Expenses calculated with WACC
- Schedule 6 & 7 – Summary and Detail of Current Material Costs by Fixture Type
- Schedule 8 – Lamp Life Analysis
- Schedule 9 – CCA Benefit Schedule
- Schedule 10 – Updated Street and Crosswalk Lighting Rates by Cost Component and Total Revenue based on forecast Inventory levels

3.1 Schedule 1- Street and Crosswalk Lighting Inventory: Actual and Forecast

The lighting units used for the 2022 to 2024 test years rate calculations were forecasted using actual inventory levels as of July 2021. A factor was applied to 2021, 2022, 2023 inventories to determine the forecast units for 2022, 2023 and 2024 respectively. These factors applied to the units were applied to produce the same usage as those in the 2022-2023 COSS studies. The forecast units are as follows:

TYPE OF FIXTURE	2022			2023			2024		
	Non-LED	LED	Total	Non-LED	LED	Total	Non-LED	LED	Total
Full Charge	29,241	46,527	75,768	28,824	45,983	74,807	28,573	46,024	74,596
Maintenance and Energy	339	-	339	334	-	334	331	-	331
Energy only	1,681	76,913	78,594	1,657	78,144	79,801	1,681	78,923	80,604
Total	**31,261**	**123,440**	**154,701**	**30,815**	**124,128**	**154,943**	**30,585**	**124,946**	**155,531**

3.2 Schedule 2- Determination of Maintenance Costs by Fixture

The purpose of this schedule is to determine fixture maintenance costs, based on the service life of each lamp type and the associated maintenance weighting factors, as measured relative to the replacement of 100W High Pressure (Intensity) Sodium lights. These weighting factors and all maintenance-charged lights are used to determine the weighted eligible total number of lights maintained (column G). Current streetlight operating expenses are used to determine annual and monthly maintenance costs by fixture type.

The operating expenses used in this review are based on forecast streetlight expenses for 2022, 2023 and 2024. The operating expenses of $0.5 million in each test year is identified in Exhibits 6A of the 2022 COSS, 2023 COSS and 2024 COSS. The forecast weighted number of streetlights and the forecast operating expenses for streetlights, are used to determine the annual and monthly maintenance charge to be applied to each type of light.

3.3 Schedule 3- Determination of Average Installation Labour Costs Associated with Streetlighting Gross Assets

The installation and retirement costs for the fixtures are determined using the current approved methodology for forecast gross plant value, number of fixtures and the most recent fixture market replacement value.

For Streetlight installation labour cost, this schedule uses

- the average gross plant value of Streetlight assets;
- the current material costs of each type of fixture; and
- the forecast average number of fixtures

to arrive at the total installation labour cost.

To determine the labour cost of Streetlight the current material cost of each fixture is multiplied by the number of forecast fixtures to calculate the total material capital cost. The material cost amount is then subtracted from the forecast total street-light gross plant value to arrive at a total labour cost which, divided by the number of fixtures to produce the average labour cost per fixture. This results in Non-LED labour per fixture of $374 in 2022, $440 in 2023 and $503 in 2024, and average labour cost per fixture for LED of $292 in 2022, $342 in 2023 and $392 in 2024.

Some of the material cost for Non-LED was not available thus an escalation inflation factor was applied to the unit costs from 2014. This schedule includes a sample material cost breakdown of a 100W High Pressure (Intensity) Sodium light, which is reproduced below.

Sample Material Cost 100-Watt High Intensity (Pressure) Sodium Inventory Prices as of July 2021	
Fixture, Ballast & Photocell	$201.73
Bracket Assembly (Davit)	$70.74
Wire	$0.00
Miscellaneous Hardware	$0.00
Lamp Replacement	$14.78
Total	$287.25

3.4 Schedule 4- Determination of Depreciation and Capital-related Costs by Fixture Type

Schedule 4 illustrates the determination of capital costs and rates for non-LED and LED fixtures.

The Company has maintained the distinction in capital cost calculation between the non-LED and LED capital asset groups in this Application, as was the case in the 2013 GRA, because the newer

LED fixture stock is less depreciated than non-LED one and as such has higher per fixture carrying costs.

The depreciation rate used is 5.33 percent for both LED and non-LED. The tax adjusted WACC for non-LED and LED is 8.12 percent in 2022, 8.86 percent in 2023 and 9.07 percent in 2024.

The capital carrying costs of non-LED and LED fixtures are determined using the following three-step process.

1. The tax- adjusted WACC is multiplied by the gross plant value of each fixture type to arrive at a gross carrying cost estimate per fixture.
2. Each fixture type carrying cost estimate is multiplied by its inventory count to arrive at a total carrying cost by fixture type. These fixture type costs are then aggregated by LED and non-LED fixture types.
3. The total carrying cost estimates by LED and non-LED fixture types are scaled down using the appropriate cost-based correction factors for each type determined as a ratio between carrying costs calculated for each type in Schedule 5A and simulated gross carrying costs above.

3.5 Schedule 5 and 5A - Tax-Adjusted Weighted Average Cost of Capital

The tax adjusted WACC rate calculations are shown in Schedule 5. It is broken down into four components: pre-tax WACC, additional income tax on Common Equity and Grants-in-Lieu of Property Taxes. This results in a tax adjusted WACC 8.12 percent in 2022, 8.86 percent in 2023 and 9.07 percent in 2024.

Schedule 5A shows how preferred dividends, return, corporate taxes, and Grant in Lieu of taxes from 2022-2024 COSS studies were allocated to the LED and Non-LED lights based on the net Plan value of LED and Non-LED.

3.6 Schedule 6 and 7- Summary and Detail of Streetlight Material Costs

An analysis of current material costs was conducted using information as of July 2021. This analysis involved the review of all components used in the installation of streetlight fixtures such as the lamp, photocell, davit, wire, connectors, and fasteners. In addition, NS Power has provided a detailed listing of all material costs obtained from the material inventory control system.

3.7 Schedule 8- Lamp Life Analysis

Average Rated Life Spans of each lamp type were used in this study. Annual photocell cumulative operating time is based on 4000 hours per year or 333 hours per month.

Using the average lamp life and burning hours per year, results in the expected service life, in years, by lamp type. The lamp life and number of replacements, relative to those of a 100W High Pressure (Intensity) Sodium lamp, are then determined. The results of this analysis are used to determine the frequency of bulb replacements as it pertains to annual maintenance work in Schedule 2.

3.8 Schedule 9- Capital Cost Allowance (CCA) Calculation

Capital cost allowance is not applicable to the current rates and as a result the page is intentionally left blank.

3.9 Schedule 10 and Schedule 10 Smoothed- Street and Crosswalk Lighting Rates by Cost Component

Consistent with bundled service smoothing of rates across 2022 to 2024 years, NS Power has also provided the smoothed unmetered service bundled tariffs.

Once the analysis of all costs components is complete, the results are summarized in the Schedule 10 and the Schedule 10 smoothed including the rate description, the rate code, the calculated monthly kWh usage, the new power and energy rates in the RTR Distribution Tariff and bundled markets, fixture maintenance, and fixture capital cost components.

Calculation of the demand and energy charges, for both the RTR Distribution Tariff and bundled service rate as based on the Miscellaneous Lighting Rates proposed, is shown at the bottom of Schedule 10 and Schedule 10 smoothed tabs and are based on annual photocell and continuous burning energy usage to arrive at average cents/kWh that is applied to the standard energy usage.

Under the standard (unsmoothed) unmetered tariffs, the total Street and Crosswalk Lighting Revenue and miscellaneous load revenues are $18.8 million for 2022, $19.5 Million in 2023 and $20.0 million for 2024. The standard (unsmoothed) revenues are in the revenue summary tabs of the 2022-2024 Attachments.

Based on the smoothed unmetered tariffs, the total Street and Crosswalk Lighting Revenue and miscellaneous load revenues are $19.6 million for 2022, $19.3 Million in 2023 and $19.3 million for 2024. The smoothed revenues are in the revenue summary tabs of the 2022-2024 Attachments.

The components for the unbundled RTR service results are included in Schedule 10 and Schedule 10 Smoothed.

Nova Scotia Power

Open Access Transmission Tariff Update

January 2022
Updated February 2022

TABLE OF CONTENTS

1 Introduction 4
2 SERVICES 6
2.1 Transmission Services 6
2.1.1 Transmission Revenue Requirement 6
2.1.2 Allocation of Revenue Requirement 7
2.1.3 Services Defined in the Tariff 8
2.1.4 Transmission Functions 9
2.1.5 Functional Allocation of Costs 10
2.1.6 Determination of System Usage 10
2.1.7 Allocation of Revenue Requirements to Services 11
2.1.8 Determination of Rates 12
2.1.9 Power Factor Penalty in the Transmission Tariff 15
2.2 Ancillary Services Rates 16
2.2.1 Capacity Based Ancillary Services 16
2.2.2 Requirements of Capacity Based Ancillary Services 17
2.2.3 Regulation and Frequency Response 17
2.2.4 Summary of Revenue Requirements for Capacity Based Ancillary Services 18
2.2.5 Capacity Based Ancillary Service Rates 19
2.2.6 Non-Capacity Based Ancillary Services 20
2.2.7 Reactive Supply and Voltage Control Service 20
2.2.8 Energy Imbalance 22
2.3 Summary of Rates 22
2.4 Exhibit 2: Development of NS Power's Transmission Revenue Requirement 23
2.4.1 Overview 23
2.4.2 Total Transmission Assets 23
2.4.3 Interest, Return on Equity and Taxes 25
2.4.4 Operating Costs 26
2.4.5 Corporate Overheads 26
3 RATE VARIANCE ANALYSIS 30

Attachments

Attached to this report: Appendix 1 Letter from Energy and Environmental Economics

As part of the General Rate Application:

SR-01 Attachment	17	2022 OATT Rate Development Partially Confidential (Excel and pdf)
SR-01 Attachment	18	2022 OATT Rate Calculation (Excel and pdf)
SR-01 Attachment	19	2023 OATT Rate Development Partially Confidential (Excel and pdf)
SR-01 Attachment	20	2023 OATT Rate Calculation (Excel and pdf)
SR-01 Attachment	21	2024 OATT Rate Development Partially Confidential (Excel and pdf)
SR-01 Attachment	22	2024 OATT Rate Calculation (Excel and pdf)

1 INTRODUCTION

As part of its General Rate Application, Nova Scotia Power Inc., (NS Power) has reviewed and updated the prices for the services offered under NS Power's Open Access Transmission Tariff (OATT).

The OATT includes terms, conditions and rates for Transmission Services and Ancillary Services, service and operating agreements under which service will be provided, and the Standards of Conduct which govern the treatment of transmission system and market information within NS Power. The OATT, as approved by the NSUARB in 2005 and as amended June 10, 2016, is available at: http://oasis.nspower.ca/en/home/oasis/default.aspx

In this Application, NS Power uses the same methodology as in the 2013 GRA[1] for most of the OATT rates. For the rates for Voltage Control in Schedule 2, NS Power proposes a new pricing methodology. In 2012, reactive power was provided by generation units in peak hour. In the years 2019-2020, most of the Reactive Power was provided by transmission system equipment, plus support from the Maritime Link acting as a STATCOM device. However, generation equipment plays an important role in real-time Voltage Control and providing reactive power at other times of the year so Schedule 2 is based on a 97 percentile usage of Reactive Power from generation, rather than only the peak hour of the year. The revised methodology now captures the cost of delivering Reactive Power and Voltage Control from the combustion turbines at Victoria Junction, Burnside and Tusket while they are operating in synchronous condenser mode, not only while in generate mode as per previous OATT.

Except for the change in the determination of the requirements for reactive power noted above, NS Power does not propose any changes to the approved pricing methodology nor to the terms, conditions and services of the tariff. The rates proposed have been updated to reflect the changes in revenue requirement, driven by changes in generation and transmission asset mix and costs, and changes in system usage since the last update as part of the 2013 GRA.

[1] M04972, NS Power 2013 General Rate Application, Exhibit N-2, Appendix L, May 8, 2012; and Decision 2012 NSUARB 227, December 21, 2012, para. 57.

The information that follows describes the Board-approved methodology for the development of the revenue requirements and their allocation to the transmission services of the OATT. It also describes the calculations for the ancillary services. All transmission charges shown are updated for costs and load determinants forecasted for 2022-2024 test years. The ancillary charges are based on 2019 operational actual data.

This Update provides for new rates in OATT Schedules as follows:

Schedule 1	Scheduling, System Control and Dispatch Service	Updated rates
Schedule 2	Reactive Supply and Voltage Control from Generation Sources Service	Updated rates
Schedule 3	Regulation and Frequency Response Service	Updated rates
Schedule 5	Operating Reserve - Spinning Reserve Service	Updated rates
Schedule 6	Operating Reserve - Supplemental Reserve Service	Updated rates
Schedule 7	Long-Term and Short-Term Firm Point-to-Point Transmission Service	Updated rates
Schedule 8	Non-Firm Point-to-Point Transmission Service	Updated rates
Schedule 10	Network Integration Transmission Service Rate	Updated rates

The redline and clean proposed Schedules are provided in the General Rate Application PR-01 Attachment 1.

The remaining schedules are listed below, but are not discussed in this Update

Schedule 4	Energy Imbalance Service	No change required
Schedule 4A	Generation Forecasting Service	No change required
Schedule 9	Real Power Loss Factors	No change required

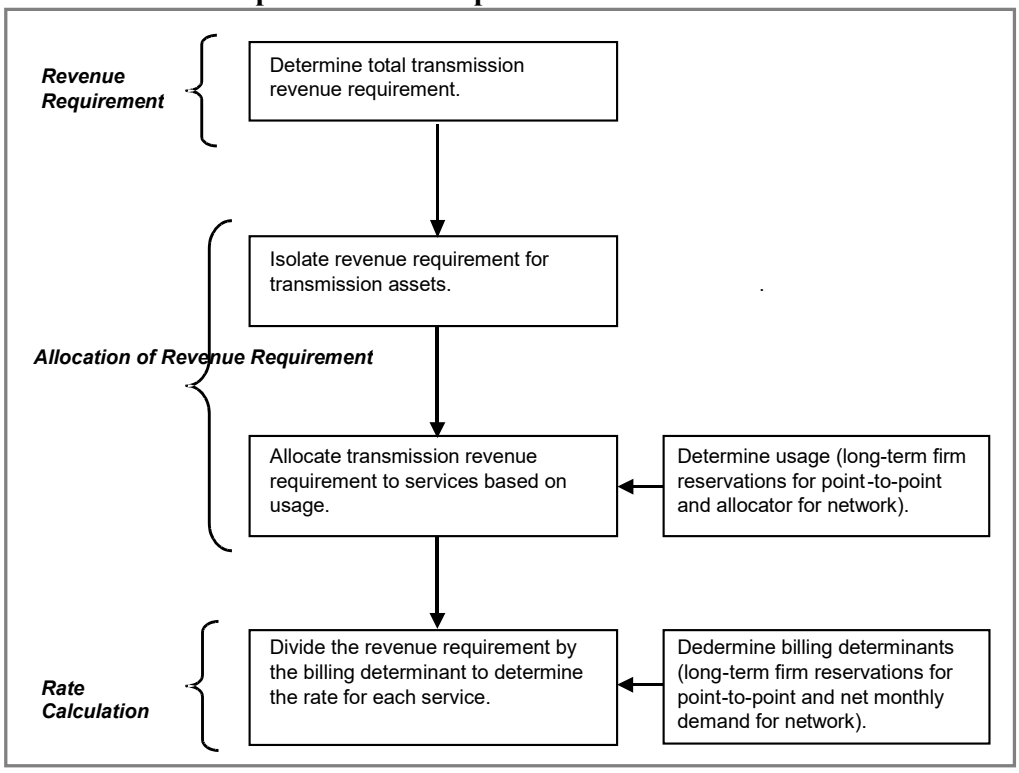
The Company has engaged consultant Energy and Environmental Economics, Inc. (E3) to review NS Power's 2022 to 2024 OATT update. E3's comments are provided as **Appendix 1** to this report.

2 SERVICES

2.1 Transmission Services

The methodology for developing transmission tariff rates is shown in Figure 2-1.

Figure 2-1
Overview of the Steps taken in the Update of Transmission Rates



2.1.1 Transmission Revenue Requirement

The first step in calculating the transmission tariff is to determine the appropriate revenue requirement that must be recovered from the sale of Transmission Services. Refer to **Figure 2-2.**

Figure 2-2 Transmission System Revenue Requirement

Transmission System Revenue Requirement			
	2022	2023	2024
Revenue Requirement Component	$millions		
Depreciation	22.4	24.5	36.1
O&M including overhead costs	14.2	12.6	12.5
Interest, taxes and return on equity	80.7	107.1	125.4
Scheduling, System Control & Dispatch	9.2	9.5	9.4
Total	126.5	153.8	183.4

The revenue requirement shown in Figure 2-2 includes the costs of all transmission lines at voltages of 69 kV or higher and the terminal stations associated with those transmission lines. It also includes the revenue requirement associated with the generation step up transformers of NS Power's generators, which are excluded from OATT revenue requirements. Details of the derivation of NS Power's transmission revenue requirements are provided in **Figure 2-.**

Figure 2- Details of the derivation of NS Power's transmission revenue requirements

Functional Allocation of Revenue Requirements			
Functional Use	Revenue Requirement Share ($millions)		
	2022	2023	2024
Generator Related Transmission Assets (GRTA)	$7.0	$8.3	$9.3
Bulk Network In Province	110.4	136.0	164.7
Energy Control Centre	9.2	9.5	9.4
TOTAL	$126.5	$153.8	$183.4

2.1.2 Allocation of Revenue Requirement

The second step in the calculation of transmission rates is to allocate the revenue requirement (i.e. the costs associated with transmission) among the appropriate services. The following steps are required to do this:

1. Definition of the Transmission Services to be provided

2. Definition of the basic functions of the Transmission System
3. Allocation of transmission revenue requirements to the different functional uses of the system
4. Determination of system usage by service
5. Allocation of the functional costs to the Transmission Services.

2.1.3 Services Defined in the Tariff

There are two basic Transmission Services available under the OATT: Point-to-Point and Network Integration Service. In addition, the Ancillary Services of Scheduling, System Control, and Dispatch (Schedule 1) and Reactive Supply and Voltage Control (Schedule 2) are required services that can only be provided by the Transmission Provider and must be taken by the Transmission Customer. The rate design of Point-to-Point Service and Network Service and the Scheduling, Control and Dispatch service is considered below in Section 2.1, while the rates for the other Ancillary Services are detailed in Section 2.2.

Point-to-Point Service refers to the reservation of capacity (for a specified period of time and a specified amount of MW) to allow the transmission of energy from a Point of Receipt to a Point of Delivery; for example, a one-month reservation of 100 MW from a generator inside Nova Scotia (the Point of Receipt) to the New Brunswick interconnection (the Point of Delivery). This service is available on either a firm or a non-firm basis.

Network Service is firm Transmission Service for the delivery of both capacity and energy to the high side of the substation transformer of the Transmission Customer. It is usually used for supply of load within the system.

Scheduling, System Control, and Dispatch Service is the process through which the system operator ensures that scheduled transactions are executed. It is required to schedule the movement of power into, out of, or within Nova Scotia. Only the NS Power System Operator can provide this service.

2.1.4 Transmission Functions

The services defined in the OATT and described in the previous section use different parts of the Transmission System. To ensure appropriate cost allocation, it is necessary to break down the revenue requirement into component pieces. Once such a breakdown is completed, costs can be allocated to specific services.

This section identifies which assets are used to provide which services. For the purposes of the NS Power OATT, assets have been grouped into three main functional groups as follows:

1. Generation Related Transmission Assets

   Direct Assignment Facilities are generation-related transmission assets (GRTA) that serve the function of connecting generation units to the shared Transmission System. They consist of generator step up transformers, a portion of substation assets, and transmission lines whose primary purpose is to connect a generator to the Transmission System. These assets and the associated revenue requirements are to be recovered directly from the generation owners and not accounted for in the rate for the transmission tariff.

2. Bulk Network Assets

   Bulk Network Assets make up the portion of the Transmission System that is highly interconnected and that serves multiple functions. The bulk network has two components: interconnections and in-province assets. Interconnections are transmission lines that interconnect Nova Scotia with neighbouring provincial electrical systems. The in-province assets consist of all transmission lines that operate as part of the integrated system within Nova Scotia.

3. Radial-to-Load Assets

   Radial-to-Load Assets are those parts of the Transmission System that are not a part of the integrated network and are used only to serve in-province loads. However, because the impact of including radial-to-load as part of the bulk power network is not large, and because the status of these assets change each time new generation is connected to such

lines, the ratemaking methodology includes these assets with the bulk power network assets.

2.1.5 Functional Allocation of Costs

The allocation of the Transmission Services revenue requirement of $126.5 million in 2022, $153.8 in 2023 and $183.4 million in 2024 to the functional uses of the system is summarized in **Figure 2-4**. Details of this allocation are found in **Figure 2-8.**

Figure 2-4 Functional Allocation of Revenue Requirements

Functional Allocation of Revenue Requirements			
Functional Use	**Revenue Requirement Share ($millions)**		
	2022	**2023**	**2024**
Generator Related Transmission Assets (GRTA)	$7.0	$8.3	$9.3
Bulk Network In Province (Transmission OATT)	110.4	136.0	164.7
Energy Control Centre	9.2	9.5	9.4
TOTAL	$126.5	$153.8	$183.4

2.1.6 Determination of System Usage

The transmission revenue requirement is allocated between Point-to-Point and Network Integration Services based on the monthly coincident peak system load. There is a single long-term firm Point-to-Point transmission reservation in the amount of 330 MW used in this analysis. The resulting system usage is shown in **Figure 2-3.**

Figure 2-3 Transmission System Usage

Transmission System Usage				
Usage	**Quantity (MW)**			**Allocation**
	2022	**2023**	**2024**	**Factors (%)**
Average export usage over 5 years	330	330	330	16.79%
Forecasted average of Network Loads at the time of the 12 monthly system peaks in 2022, 2023 and 2024	1,635	1,635	1,635	83.21%
Total	**1,965**	**1,965**	**1,965**	**100%**

2.1.7 Allocation of Revenue Requirements to Services

The last step in the cost allocation analysis is to allocate total transmission costs to the services that will be offered under the tariff. As noted above, these are Point-to-Point Service, Network Service and Scheduling, System Control and Dispatch Service.

The transmission revenue requirement for Point-to-Point and Network Services has been determined in Section 2.1.5. Applying 16.79 percent share of usage for Point-to-Point reservations (330MW/1,965MW) and 83.21 percent for Network Service, the allocation of costs to these services is shown in **Figure 2-4**.

Figure 2-4 Transmission Services Revenue Requirements

Transmission Services Revenue Requirements				
Service	**Percent Share**	**Revenue Requirement ($ millions)**		
		2022	**2023**	**2024**
Point-to-Point	16.79%	18.5	22.8	27.7
Network	83.21%	91.9	113.1	137.1
Total	**100%**	110.4	136.0	164.7

The revenue requirement for each service can also be expressed on a per-unit of usage basis as shown in **Figure 2-5**. The $/MW-year figures represent the per-unit cost of providing each of the services based on the application of the transmission pricing principles.

Figure 2-5 Per Unit Transmission Services Revenue Requirements

Per Unit Transmission Services Revenue Requirements			
Service	**Revenue Requirement ($ millions)**	**Usage (MW)**	**Per Unit Revenue Requirement ($/MW-year)**
2022			
Point-to-Point	18.5	330	56,180.19
Network	91.9	1,635	56,180.19
2022 Total	110.4	1,965	
2023			
Point-to-Point	22.8	330	69,186.70
Network	113.1	1,635	69,186.70
2023 Total	136.0	1,965	
2024			
Point-to-Point	27.7	330	83,826.78
Network	137.1	1,635	83,826.78
2024 Total	164.7	1,965	

2.1.8 Determination of Rates

The nominal rates for each service are determined by dividing their revenue requirements by respective billing determinant. For Point-to-Point Transmission Service, the approved billing determinant is the transmission capacity reserved by the customer.

For Network Integration Transmission Service, the approved billing determinant is monthly non-coincident peak (NCP) demand. The NCP demand for all Eligible Customers (except NS Power) is available from existing metering at the customer level. Given the lack of complete metering at the transmission level for all of NS Power's interfaces with the Distribution System, NS Power uses a Cost of Service Study (COSS) coincidence factor to derive NS Power's NCP demand from the known coincident peak demand. NS Power estimates this coincidence factor to be 90.9 percent in 2022, 91.0 percent in 2023 and 90.8 percent in 2024.

Figure 2-7 illustrates the calculation of the nominal annual rate for each service.

Figure 2-6 Determination of Nominal Rates by Service

Determination of Nominal Rates by Service			
Services	**Revenue Requirement ($millions/yr.)**	**Billing Determinant (MW)**	**Nominal Rate ($/MW/yr.)**
2022			
Point to Point Services			
Transmission Service	18.5	330	56,180.19
Scheduling, Control & Dispatch	1.5	330	4,676.59
Network Services			
Transmission Service	91.9	1,635	56,180.19
Scheduling, Control & Dispatch	7.6	1,635	4,676.59
2023			
Point to Point Services			
Transmission Service	22.8	330	69,186.70
Scheduling, Control & Dispatch	1.6	330	4,852.88
Network Services			
Transmission Service	113.1	1,635	69,186.70
Scheduling, Control & Dispatch	7.9	1,635	4,852.88
2024			
Point to Point Services			
Transmission Service	27.7	330	83,826.78
Scheduling, Control & Dispatch	1.6	330	4,786.69
Network Services			
Transmission Service	137.1	1,635	83,826.78
Scheduling, Control & Dispatch	7.8	1,635	4,786.69

For time differentiated Point-to-Point Service, NS Power is using Appalachian pricing. In Appalachian pricing the short-term services are priced higher for an equivalent time period.

The Appalachian pricing approach defines various short-term rates as a fraction of the yearly rate as follows:

Yearly	Nominal rate
Monthly rate	Yearly rate / 12
Weekly rate	Yearly rate / 52
On-Peak Daily rate	Weekly rate / 5
Off-Peak Daily rate	Yearly rate / 365
On-Peak Hourly rate	On-Peak Daily rate / 16
Off-Peak Hourly rate	Yearly rate / 8760

NS Power has proposed rates based on the previously approved calculations shown above. This approach helps ensure adequate collection of revenues for services provided, while facilitating the use of the transmission capacity in the off-peak hours. Based on the overall revenue requirement defined, the application of the revenue requirement allocation analysis, and the design of the end use rates just described, the rates proposed are set out in **Figure 2-7.**

Figure 2-7 Summary of Transmission Service Rates

Summary of Transmission Service Rates			
Services	**Units**	**Transmission Service**	**Scheduling, System Control & Dispatch**
2022			
Point-to-Point			
Yearly	$/MW-yr	56,180.19	4,676.59
Monthly	$/MW-m	4,681.68	389.72
Weekly	$/MW-w	1,080.39	89.93
On-Peak Daily	$/MW-d	216.08	17.99
Off-Peak Daily	$/MW-d	153.92	12.81
On-Peak Hourly	$/MW-h	13.50	1.12
Off-Peak Hourly	$/MW-h	6.41	0.53
Network	$/MW-m	4,256.94	354.36
2023			
Point-to-Point			
Yearly	$/MW-yr	69,186.70	4,852.88
Monthly	$/MW-m	5,765.56	404.41
Weekly	$/MW-w	1,330.51	93.32
On-Peak Daily	$/MW-d	266.10	18.66

Summary of Transmission Service Rates			
Services	**Units**	**Transmission Service**	**Scheduling, System Control & Dispatch**
Off-Peak Daily	$/MW-d	189.55	13.30
On-Peak Hourly	$/MW-h	16.63	1.17
Off-Peak Hourly	$/MW-h	7.90	0.55
Network	$/MW-m	5,246.79	368.02
2024			
Point-to-Point			
Yearly	$/MW-yr	83,826.78	4,786.69
Monthly	$/MW-m	6,985.56	398.89
Weekly	$/MW-w	1,612.05	92.05
On-Peak Daily	$/MW-d	322.41	18.41
Off-Peak Daily	$/MW-d	229.66	13.11
On-Peak Hourly	$/MW-h	20.15	1.15
Off-Peak Hourly	$/MW-h	9.57	0.55
Network	$/MW-m	6,339.79	362.02

Additional details with respect to the derivation of these rates are provided in **Figure 5-12** and **Figure 2-14** found in GRA **SR-01 Attachments 18, 20 and 222.**

2.1.9 Power Factor Penalty in the Transmission Tariff

NS Power's OATT includes a power factor penalty that will be applied for any month in which a Transmission Customer has a power factor of less than 0.90. As approved by the Board, the penalty paid shall be based on Excess kVA, where Excess kVA shall be defined as:

Excess kVA = Max. kVA – Max. kW / 0.9

where

Max. kVA = Maximum kVA consumed during the month

Max. kW = Maximum kW consumed during the month

The charge per Excess kVA is set equal to the demand charge of the NS Power Large Industrial Tariff in effect.

2.2 Ancillary Services Rates

Ancillary Services are the support services that are required to enable the Transmission System to transmit energy while maintaining reliable operation of the system in accordance with Good Utility Practice. They range from the actions necessary to effect and balance a transfer of electricity between buyer and seller to services that are necessary to maintain the integrity of the Transmission System and enable it to be operated reliably at design voltages and frequency.

This section discusses calculations of rates for all the Ancillary Services that are provided from generators under the control of the System Operator at the Energy Control Centre. Scheduling, System Control, and Dispatch Service is an Ancillary Service supplied directly by the Transmission Provider and is discussed in Section 2.1.

The Ancillary Services provided from generators and discussed in this Section can be grouped into two main categories:

1. Capacity based services provided from generation capacity that must be committed to the provision of the service and cannot be used at the same time for other purposes.

2. Non-capacity-based services that do not require the commitment of generator capacity for provision of the service.

2.2.1 Capacity Based Ancillary Services

Capacity based services include the following:

- Regulation and Frequency Response Service, comprising Regulation and Load Following **(OATT Schedule 3)**
- Operating Reserve – Spinning Reserve Service (**OATT Schedule 5)**
- Operating Reserve – Supplemental Reserve Service, comprising Supplemental 10-minute and 30-minute Reserve (**OATT Schedule 6)**

The costs of supplying these services are calculated from the embedded costs of existing generating units. The revenue requirement for these capacity-based services is determined by multiplying the per-unit embedded cost of capacity for each service by the amount of capacity required to deliver the service.

Once the revenue requirement is determined, it is allocated to services, and rates are set in a manner similar to that used for Transmission Services in Section 2.1.

2.2.2 Requirements of Capacity Based Ancillary Services

NS Power as the Transmission Provider operates in accordance with NERC Reliability Standards and NPCC criteria, as approved by the NSUARB. This includes the responsibility to determine the need for, and to procure sufficient, ancillary resources to reliably operate the electrical power network.

Additionally, the OATT requires NS Power, as the Transmission Provider to make all Ancillary Services available to all Transmission Customers. Therefore, NS Power must be able to procure adequate generation resources to do so.

Transmission Customers can purchase each of the Ancillary Services from the Transmission Provider (NS Power) whether they are taking Point-to-Point or Network Service. Therefore, the Ancillary Services are priced for both services. Transmission Customers can self-supply the capacity based Ancillary Services or purchase them from either the Transmission Provider or a third party. The NS Power system requirements for "Regulation and Frequency Response" and "Operating Reserves" are outlined below.

2.2.3 Regulation and Frequency Response

Regulation and Frequency Response Ancillary Service is necessary to provide for the continuous balancing of resources (generation and scheduled interprovincial interchange) with load, which supports the grid operation at 60 Hz. Historical operating experience was used to determine the amount of capacity that is required to provide the Regulation and Frequency Response Ancillary

Service. The NS Power grid has integrated a significant amount of variable generation, mostly in the form of wind, which is not usually centrally dispatched or scheduled, and therefore this Ancillary Service now includes the requirement to balance the net variations of load and variable generation with the NS Power conventional generation fleet. There are two characteristics of this Ancillary Service that dictate the requirements of this Ancillary Service: 5 minute-by-5 minute load fluctuations (Regulation) and the change in load from hour to hour (Load Following). For the rate updating purposes of this application, NS Power used 5 minute, as opposed to 10 minute used in the 2013 application, time intervals for regulation requirements, which better matches the capabilities of the NS Power Automatic Generation Control system.

The 5 minute-by-5 minute fluctuations require 32 MW of generation capacity for the Nova Scotia system, and the hour-to-hour change in load requires 176 MW of generation capacity.

2.2.3.1 Operating Reserves

NPCC defines the requirement for Operating Reserves in the Maritimes Control Area. NS Power is obligated to provide its share of Operating Reserves as follows:

- Spinning Reserve 32 MW
- 10 Min (non spinning) Reserve 136 MW
- 30 Min Reserve 50 MW

This means that at all times, NS Power must have: 32 MW of spare capacity available from units already online, 136 MW of capacity (or load reduction) that can be made available within 10 minutes, and an additional 50 MW of capacity (or load reduction) that can be made available within 30 minutes.

2.2.4 Summary of Revenue Requirements for Capacity Based Ancillary Services

The total revenue requirement for each service is the product of the quantity required multiplied by the cost per unit of service supplied as shown in Figure 2-8.

Figure 2-8 Revenue Requirement of Capacity Based Ancillary Services

Revenue Requirement of Capacity Based Ancillary Services									
Services	Revenue Requirement ($/kW-yr)			Services Required (MW)			Revenue Requirement ($1000/yr)		
	2022	2023	2024	2022	2023	2024	2022	2023	2024
Regulation	132.0	147.5	153.3	32.0	32.0	32.0	4,224.4	4,720.4	4,904.6
Load Following	170.0	181.2	184.4	176.0	176.0	176.0	29,917.7	31,886.2	32,459.4
Spinning (10-minute)	135.0	140.3	139.5	32.0	32.0	32.0	4,319.3	4,489.8	4,463.6
Supplemental (10-minute)	98.4	125.9	141.8	136.0	136.0	136.0	13,383.9	17,123.9	19,288.4
Supplemental (30-minute)	155.2	152.9	147.3	50.0	50.0	50.0	7,758.2	7,645.6	7,365.4

Additional detail with respect to the derivation of these revenue requirements is provided in Figures 6-8 found in GRA **SR-01 Attachments 17, 19 and 21.**.

2.2.5 Capacity Based Ancillary Service Rates

The annual cost of providing each service as a function of the usage is determined by dividing the total cost of providing the service by the usage of the respective service. For monthly Point-to-Point and Network Services the annual cost of providing each service on a $/kW basis is divided by 12 to determine the monthly rate. Point-to-Point customers purchasing the Ancillary Services on a yearly or monthly basis, as well as customers taking Network Service, are billed at the monthly rate at the end of each calendar month as noted in the terms and conditions of the OATT. The rate for weekly Point-to-Point Services is 1/52nd of the annual rate and the daily rate is 1/7th of the weekly rate. Hourly service is not available for the capacity based Ancillary Services due to the additional administrative burden of tracking how various Point-to-Point customers are fulfilling their obligations on an hourly basis. The rates produced by this process are summarized in **Figure 2-9**.

Figure 2-9 Rates for Capacity Based Ancillary Services

Rates for Capacity Based Ancillary Services			
Services	**Rate ($/MW – month)**		
	2022	**2023**	**2024**
Regulation	195.8	218.9	226.8
Load Following	1,386.6	1,478.7	1,501.1
Operating Reserve – Spinning	200.2	208.2	206.4
Operating Reserve – Supplemental (10 minute)	620.3	794.1	892.0
Operating Reserve – Supplemental (30 minute)	359.6	354.6	340.6

2.2.6 Non-Capacity Based Ancillary Services

Non-capacity based Ancillary Services are:

- Scheduling, System Control and Dispatch (Schedule 1),
- Reactive Supply and Voltage Control Service (Schedule 2), and
- Energy Imbalance Service (Schedule 4).

The three-step methodology for developing rates (outlined in Figure 2-1) is also employed to determine rates for these services. Rates for Scheduling, System Control and Dispatch service are derived from the transmission revenue requirements in Section 2.1.1 of this report. The remaining two non-capacity based Ancillary Services are considered below.

2.2.7 Reactive Supply and Voltage Control Service

Reactive power must be appropriately distributed across the Transmission System since it cannot be transported efficiently. If there were no continuously variable reactive power available from generation, Static Var Compensators of a wide range of sizes would have to be strategically deployed across the grid to provide this Ancillary Service.

The total system requirement for this service from generators on the system is based on the historical reactive power output of in-province generators plus an additional MVAR capability held in reserve to ensure dynamic system security. The total revenue requirement for this service

is determined by applying estimated embedded unit cost to the total system requirement for reactive power. Details of this are provided in **Attachments OATT-1, OATT-2, and OATT-3**.

Without this service transmission of electrical power cannot occur, so the revenue requirement is allocated to both Point-to-Point and Network Service. This allocation is done on the same basis as the allocation of the revenue requirement associated with the Transmission System. This allocation to Point-to-Point and Network Services is explained in Section 2.1.17. The respective usages are the based on long-term firm transmission reservations and an average of 12 monthly peak Network Loads coincident with the system peak.

The rate calculations are done in the same manner as used in the determination of transmission service rates. The revenue requirement for this service for users of Point-to-Point Service is divided by the long-term firm transmission reservation quantity. The revenue requirement of this service for users of Network Service is divided by the average of the 12 monthly coincident peak net demands for Network Service, adjusted for system coincidence factor to provide billing based on non-coincident metering. The Appalachian pricing approach (explained in Section 2.1.8) is applied to this service in the same fashion as it is applied to the Point-to-Point Service. The rates for this service, as summarized in **Figure 2-10**, are shown below.

Figure 2-10 Reactive Supply and Voltage Control Service Rates

Reactive Supply and Voltage Control Service Rates				
Services	**Units**	**Rate**		
Point-to-Point		**2022**	**2023**	**2024**
Yearly	$/MW-yr	$2,236.45	$2,253.81	$2,205.94
Monthly	$/MW-m	$186.37	$187.82	$183.83
Weekly	$/MW-w	$43.01	$43.34	$42.42
On-Peak Daily	$/MW-d	$8.60	$8.67	$8.48
Off-Peak Daily	$/MW-d	$6.13	$6.17	$6.04
On-Peak Hourly	$/MW-h	$0.54	$0.54	$0.53
Off-Peak Hourly	$/MW-h	$0.26	$0.26	$0.25
Network Service	$/MW-m	169.48	170.89	166.79

2.2.8 Energy Imbalance

Energy imbalance is a service that has no predictable required quantity. The cost of providing the service fluctuates with the real time cost of producing energy. For these reasons, this service is priced using hourly marginal costs. NS Power does not propose any changes to this mechanism in this submission.

2.3 Summary of Rates

Rates proposed for all OATT services included in this Application are set out in **Figure 2-11**. For ease of comparison, the rates for all services are provided in the common units of $/MW-month.

Figure 2-11 Rates for Services in NS Power's Open Access Transmission Tariff

Rates for Services in NS Power's Open Access Transmission Tariff				
Services	Schedule in OATT	2022 $/MW-month	2023 $/MW-month	2024 $/MW-month
Scheduling, System Control, and Dispatch Service	Schedule 1	389.72	404.41	398.89
Point-to-Point Network		354.36	368.02	362.02
Reactive Supply and Voltage Control	Schedule 2	186.37	187.82	183.83
Point-to-Point Network		169.48	170.89	166.79
Regulation	Schedule 3	195.79	218.90	226.81
Load Following	Schedule 3	1,386.62	1,478.68	1,501.08
Energy Imbalance Service	Schedule 4	variable as described in OATT	variable as described in OATT	variable as described in OATT
Operating Reserve – Spinning	Schedule 5	200.19	208.21	206.42
Operating Reserve – Supplemental (10-minute)	Schedule 6	620.32	794.10	891.99
Operating Reserve – Supplemental (30-minute)	Schedule 6	359.58	354.56	340.61
Point-to-Point Service	Schedule 7	4,681.68	5,765.56	6,985.56
Network Integration Service	Schedule 10	4,256.94	5,246.79	6,339.79

OATT Schedule 9 provides the System Average Loss Factor for Network Integration Service, which is applied to the net demand of the eligible customer. This factor is updated annually. For 2021 Network Service customers apply the System Average Loss Factor of 2.2 percent.[2]

2.4 Exhibit 2: Development of NS Power's Transmission Revenue Requirement

2.4.1 Overview

The transmission revenue requirement used in the development of the OATT rates includes:

(a) Depreciation costs
(b) Interest costs
(c) Return on Equity
(d) All taxes (income, grants in lieu, etc.)
(e) Operating & Maintenance costs
(f) Appropriate portions of corporate overheads
(g) Fixed Cost Deferral

Each of these is discussed in more detail below. Items a – d above are derived from the total transmission assets.

2.4.2 Total Transmission Assets

NS Power's average transmission assets have a gross plant value (i.e. before any depreciation) of $1,371.3 million in 2022, $1,487.0 in 2023 and $1,582.5 million in 2024, as shown in "Total Assets" tabs of Rate Dev **Attachments OATT-1, OATT-2 and OATT-3**.

In 2022, this includes $1,152.4 million of transmission assets plus $131.6 million of General Property assets, plus $87.3 million of other assets such as deferred charges, materials inventory and net receivables which are assigned to the transmission function in the COSS.

[2] Posted on NS Power OASIS https://www.nspower.ca/oasis/system-reports-messages/system-average-loss-factor

In 2023, this includes $1,228.3 million of transmission assets plus $144.8 million of General Property assets, plus $113.8 million of other assets such as deferred charges, materials inventory and net receivables which are assigned to the transmission function in the COSS.

In 2024, this includes $1,287.4 million of transmission assets plus $156.5 million of General Property assets, plus $138.7 million of other assets such as deferred charges, materials inventory and net receivables which are assigned to the transmission function in the COSS.

Consistent with the methodology approved by the Board, the following adjustments are made for the purpose of developing the OATT revenue requirement: These adjustments and the total transmission assets for the purposes of OATT values are in "Trans. Plt Analysis" tab of Rate Dev **Attachments OATT-1, OATT-2 and OATT-3.**

- Generator step-up transformers have been excluded ($17.7 million in 2022, $18.0 million in 2023 and $18.3 million in 2024)
- Transmission lines that are radial-to-generation have been excluded ($47.7 million in 2022, $51.8 million in 2023 and $55.1 million in 2024)
- Portions of substations (such as breakers) that are radial-to-generation have been excluded ($7.5 million in 2022, $7.6 million in 2023 and $7.7 million in 2024)

With these adjustments, NS Power's total transmission assets for the purposes of OATT are $1,298.4 million in 2022, $1,409.7 million in 2023 and $1,501.4 million in 2024.

2.4.2.1 Depreciation

The depreciation rates approved by the Board in 2010, (Decision NSUARB – NSPI – P – 891 were applied to the transmission assets and general property assets to develop a total depreciation charge. The composite rates being used for 2022, 2023 and 2024 are:

- Transmission Assets 2.39 percent
- General Property 6.29 percent

The total value of average depreciable transmission assets in 2022 is $1,139.5 million ($1,371.3 million minus $87.3 million for deferred charges, materials inventory and net receivables, minus $131.6 million for General Property, minus $12.9 million for non-depreciable land). The total value of average depreciable transmission assets in 2023 is $1,215.5 million ($1,487.0 million minus $113.8 million for deferred charges, materials inventory and net receivables, minus $144.8 million for General Property, minus $12.9 million for non-depreciable land). The total value of average depreciable transmission assets in 2024 is $1,274.5 million ($1,582.5 million minus $138.7 million for deferred charges, materials inventory and net receivables, minus $156.5 million for General Property, minus $12.9 million for non-depreciable land). The depreciation charge for OATT is calculated as follows:

- (Transmission Assets x Transmission Depreciation Rates) + (General Property Assets x General Property Depreciation Rates) + Tax Effects+ Adjustment to reconcile depreciation in COSS Transmission functional area

- Year 2022 = $1,139.5 million x 0.0239 + $131.6 x 0.0629 + (9.2) + (3.9) = $22.5 million

- Year 2023 - $1,215.5 million x 0.0239 + $144.8 x 0.0629 + (9.5) +(4.1) = $24.5 million

- Year 2024 - $1,274.5 million x 0.0239 + $156.5 x 0.069 + (4.0) +(0.2) = $36.1 million

- With portions of this excluded (associated with generator step-up transformers, etc.), the net charge for the purpose of OATT is $22.4 million in 2022, $24.5 million in 2023 and $36.1 million in 2024.

2.4.3 Interest, Return on Equity and Taxes

The interest charges include the amortization of defeasance costs. The forecast Capital Structure and Return on Equity (ROE) is 38.80 percent, 41.30 percent and 43.80 percent, respectively for 2022, 2023 and 2024. The Weighted Average Cost of Capital (WACC), adjusted to reflect taxes,

in 2022 is 8.22 percent, in 2023 is 8.92 percent and 9.10 percent in 2024 as shown in Tables E1-1 (2022, 2023 and 2024) below.

Applying this WACC to the net book value of the total transmission, associated general property assets and associated deferred charges, working capital and receivables, the total charge for interest, ROE and taxes is $80.7 million in 2022, $107.1 million in 2023 and $125.4 million in 2024.

With this approach, the ROE and the capital structure are inputs to the process.

2.4.4 Operating Costs

For 2022, 2023 and 2024, operating costs total $23.4 million, $22.1 million, and $21.9 million, respectively. They include all transmission-related O&M associated with the following departments:

(a) Transmission Operations and Maintenance
(b) Transmission and Distribution Asset Management
(c) Control Centre Operations

2.4.5 Corporate Overheads

These costs include corporate functions such as Finance, IT, Regulatory Affairs, Legal and Procurement. Based on estimates prepared by NS Power, the costs of each group are assigned to the Power Production, Customer Operations and Marketing and Sales groups. The portion assigned to Customer Operations is split between Transmission and Distribution and the Transmission portion ($6.2 million in 2022, $6.5 million in 2023 and $6.7 million in 2024) is included in the OATT.

TABLE E1-1

Nova Scotia Power Inc.
2022 Transmission Tariff WACC Rate
Millions of dollars

1) Interest (Carrying Cost)

a) Weighted Average Cost of Capital - Pretax

	Proportion	Cost	Extended	
ST Debt	3.80%	0.84%	0.03%	
LT Debt	57.40%	4.98%	2.86%	
Common Equity	38.80%	8.14%	3.16%	
Total	100.00%	13.96%	6.05%	
WACC - pretax cost				6.05%

b) Additional income tax for common equity

Extended equity cost		3.16%	
Effective tax rate (excluding surtax)		29.0%	
Income tax		1.29%	
WACC - equity tax cost			1.29%

c) Large Corporations Tax

Ave. NPV - Transmission	$790.796		
Ave. NPV - assigned GP	88.338		
Ave. Deferred Chgs & W/C	102.794		
NPV - Total Transmission	$981.927		

d) Grants in Lieu of Property Tax

Total 2022 Forecasted Expense		$42.8	
Transmission % of Total Plant		20.2%	
Transmission Allocated Amount		$8.6	
Percentage of NBV		0.88%	
WACC - Grants in Lieu of Property Tax			0.88%

Total WACC - Interest / Carrying Cost	**8.22%**

TABLE E1-1

Nova Scotia Power Inc.
2023 Transmission Tariff WACC Rate
Millions of dollars

1) Interest (Carrying Cost)

a) Weighted Average Cost of Capital - Pretax

	Proportion	Cost	Extended	
ST Debt	1.70%	0.90%	0.02%	
LT Debt	57.00%	4.97%	2.83%	
Common	41.30%	9.00%	3.72%	
	100.00%		6.56%	
WACC - pretax cost				6.56%

b) Additional income tax for common equity

Extended equity cost		3.72%	
Effective tax rate (excluding surtax)		29.0%	
Income tax		1.52%	
WACC - equity tax cost			1.52%

c) Large Corporations Tax

Ave. NPV - Transmission	$947.206		
Ave. NPV - assigned GP	103.209		
Ave. Deferred Chgs & W/C	150.579		
NPV - Total Transmission	$1,200.994		

d) Grants in Lieu of Property Tax

Total 2022 Forecasted Expense		$43.5	
Transmission % of Total Plant		23.2%	
Transmission Allocated Amount		$10.1	
Percentage of NBV		0.84%	
WACC - Grants in Lieu of Property Tax			0.84%

Total WACC - Interest / Carrying Cost	**8.92%**

TABLE E1-1

Nova Scotia Power Inc.
2024 Transmission Tariff WACC Rate
Millions of dollars

1) Interest (Carrying Cost)

a) Weighted Average Cost of Capital - Pretax

	Proportion	Cost	Extended	
ST Debt	0.90%	1.08%	0.01%	
LT Debt	55.30%	4.92%	2.72%	
Common Equity	43.80%	9.00%	3.94%	
Total	100.00%		6.67%	
WACC - pretax cost				6.67%

b) Additional income tax for common equity

Extended equity cost		3.94%	
Effective tax rate (excluding surtax)		29.0%	
Income tax		1.61%	
WACC - equity tax cost			1.61%

c) Large Corporations Tax

Ave. NPV - Transmission	$1,067.624		
Ave. NPV - assigned GP	112.622		
Ave. Deferred Chgs & W/C	198.166		
NPV - Total Transmission	$1,378.413		

d) Grants in Lieu of Property Tax

Total 2024 Forecasted Expense		$44.3	
Transmission % of Total Plant		25.4%	
Transmission Allocated Amount		$11.3	
Percentage of NBV		0.82%	
WACC - Grants in Lieu of Property Tax			0.82%

Total WACC - Interest / Carrying Cost	**9.10%**

3 RATE VARIANCE ANALYSIS

The following information provides a comparison of the changes to the Transmission and Ancillary Services rates in the OATT between 2022, 2023 and 2022 and identifies the key drivers of the variances.

Figure 2-13 Rate Variance Analysis

Rate Variance Analysis											
Rate	2005	2013	2014	2022	2023	2024	Percentage Change				
	($/MW/month)						2013/ 2005	2014/ 2013	2022/2 014	2023/ 2022	2024/ 2023
Transmission											
Point to Point	3,580.88	4,670.50	4,989.66	4,681.68	5,765.56	6,985.56	30%	6.8%	-6.2%	23.2%	21.2%
Network	2,782.20	3,969.93	4,241.21	4,256.94	5,246.79	6,339.79	43%	6.8%	0.4%	23.3%	20.8%
Scheduling, System Control and Dispatch											
Point to Point	232.84	403.24	416.45	389.72	404.41	398.89	73%	3.3%	-6.4%	3.8%	-1.4%
Network	181.18	342.76	353.98	354.36	368.02	362.02	89%	3.3%	0.1%	3.9%	-1.6%
Reactive Power											
Point to Point	293.54	214.72	214.97	186.37	187.82	183.83	-27%	0.12%	-13.30%	0.78%	-2.12%
Network	227.99	182.48	182.76	169.48	170.89	166.79	-20%	0.15%	-7.27%	0.83%	-2.40%
Capacity-based Ancillary Services											
Regulation	78.60	216.73	217.06	195.79	218.90	226.81	176%	0.2%	-9.8%	11.8%	3.6%
Load Following	449.80	775.66	776.85	1,386.62	1,478.68	1,501.08	72%	0.2%	78.5%	6.6%	1.5%
Spinning (10 minute)	91.91	166.33	166.58	200.19	208.21	206.42	81%	0.2%	20.2%	4.0%	-0.9%
Supplemental (10 minute)	203.94	331.32	331.83	620.32	794.10	891.99	62%	0.2%	86.9%	28.0%	12.3%
Supplement (30 minute)	195.54	280.80	281.23	359.58	354.56	340.61	44%	0.2%	27.9%	-1.4%	-3.9%

Prices of OATT services are determined by dividing revenue requirement associated with the provision of OATT service by the amount of total system usage. Thus, changes in rates are an outcome of a combined effect of changes in total revenue requirement and changes in usage.

1. The individual OATT services show diverse changes in their revenue requirements due to the diversity of their underlying cost drivers. Apart from upward unit cost pressures of employed capital and labour resources in delivery of OATT services, the amount and mix of these resources

have also changed in response to changes in the operational characteristics of the NS Power's system.

2. The unit costs of employed resources have increased and decreased for several reasons.

- Investment in NS Power's transmission assets has increased gross plant value in 2022 over 2014 by 41.4 percent. NS Power is also forecasting an increase to gross plant in 2023 of 8.4 percent over 2022 and 6.4 percent increase in 2024 over 2023.
- The weighted depreciation rates in the 2014 calculation for transmission and general property assets was 2.35 percent and 8.16 percent, respectively. The weighted depreciation rates in 2022, 2023 and 2024 for transmission and general property assets was 2.39 percent and 6.29 percent, respectively.
- NS Power's total operating costs decreased 12.6 percent in 2022 from 2014. Operating costs, in 2023, also decrease by 5.5 percent over 2022 and decrease in 2024 by 1.1% over 2023.
- The Weighted Average Cost of Capital (WACC), adjusted to reflect taxes used in 2014 was 10.42 percent compared to 8.22 percent in 2022, 8.92 percent in 2023 and 9.10 percent in 2024.

3. The system operational factors, which affect the amount of generation resources employed in the delivery of generation-based ancillary services, have changed.

- The increase in the presence of wind generation from 300 MW in 2011 to 600 MW in 2019/2020 caused an increase in the demand for Regulation and Load Following services. More conventional generation resources are now dedicated to the delivery of these services than in 2011.
- The overall system usage as measured in monthly coincident kW demand for combined Point to Point and Network Service has increased by 17 percent. This means that absent any change in the revenue requirement, rates for all OATT services would decrease by 14.4 percent. Although Network Service load decreased by 30 MW, long-term Firm Point to Point Transmission service increased from 16 MW to 330 MW.

The Company has engaged E3 to review this OATT update. In its letter, provided as Appendix 1, E3 provided:

> E3 was asked to provide a review of the OATT pricing changes proposed in the Application. E3 reviewed the pricing provisions of the Application for consistency with standard rate-making practices. E3 also examined the worksheets prepared by NS Power to verify consistency with prior approved methods, review the reasonableness of input assumptions, and confirm the use of sound ratemaking principles. In respect of this review, E3 believes that the Application is consistent with sound ratemaking principles and the rates have been appropriately derived.[3]

[3] Energy and Environmental Economics letter, January 18, 2022, Appendix 1, page 2.

Request DR-54:

Please provide any studies or analysis of the drivers of customer service costs by class performed by or for NS Power.

Response DR-54:

NS Power has not conducted any studies or analyses of the drivers of customer service cost by class in recent past.

With the Board's approval of a replacement of weighted customer counts, used to apportion certain customer service costs, with a generic formulaic approach, consisting in application of class cost factors weighted 85 percent to customer counts and 15 percent to class revenues, in the 2013 COS proceeding[1] the periodic empirical cost of customer service studies have become unnecessary.

[1] Decision on Hearing for Approval of the 2013 Cost of Service Study (M05473), Section 3.5.1 Findings

Request DR-55:

Please provide the most recent analysis of weighted service costs, including all Excel spreadsheets (with formulas intact), data, assumptions, and other supporting workpapers.

Response DR-55:

Please refer to page 2 of Exh 8a of the 2023 COSS for calculations of the following weighting factors: C-2, C-2B, C-3, C-4, C-5, C-6, C-7, and C-8; applicable to allocation of customer service costs of Call Center, Billing Services, Electrical Wiring Inspections, Payment Services, etc as indicated in column (12) on page 4 of Exh 6.[1]

[1] M10431, Exhibit N-27, NS Power, 2022 General Rate Application (GRA), February 18, 2022, SR-01, Att 3.

NON-CONFIDENTIAL

Request DR-56:

Please provide the most recent analysis of weighted meter costs, including all Excel spreadsheets (with formulas intact), data, assumptions, and other supporting workpapers.

Response DR-56:

Please refer to tab "Exh 3I" of the electronic copy of the 2023 COSS[1] for calculation of class responsibilities for net book value of customer meters. Please refer to CA DR-51 for the description of the process used to determine meter investment by class.

[1] M10431, Exhibit N-27, NS Power, 2022 General Rate Application (GRA), February 18, 2022, SR-01, Att 3.

Request DR-57:

For each customer class, please provide estimates of class monthly NCP for each year 2014–2023, including the estimated magnitude, date and time, even if NS Power has low confidence in the quality of the data for any particular time period.

(a) Please explain NS Power's confidence in the data provided, by relevant time period.

(b) Please explain how customer load diversity is accounted for in the class monthly NCP estimates. In other words, assuming that the class NCP for residential customers is not the product of the number of residential customers times the NCP for the average residential customer, please explain how the residential class monthly NCP is calculated.

Response DR-57:

(a) Monthly NCP values can be extracted from the hourly data provided in CA DR-58 Attachment 1. An explanation of the quality of the data is provided in response to CA DR-58.

(b) Load diversity is accounted for in the underlying sampled data. The sampled load is scaled to match monthly energy totals.

REDACTED

Request DR-58:

For each customer class, please provide hourly estimates of the class load for each year 2014-2023, even if NS Power has low confidence in the quality of the data for any particular time period.

(a) Please explain NS Power's confidence in the data provided, by relevant time period.

(b) Please identify the top 100 system load hours for each year 2014-2023, including the estimated system load, date and time.

(c) For unmetered load, please provide NS Power's assumptions regarding hourly load and the basis for those assumptions.

Response DR-58:

Please refer to Partially Confidential Attachment 1 for the 10-year period covering 2014-2023 for hourly data. The rate classes in columns E-K and R, have been scaled to match monthly sales values. Data for these classes for 2023 will be based on AMI data that is still being analyzed, class level data will be available later in the year.

(a) The submitted data is based on the NS Power load research sample. The sample was updated in 2017 to aim for 10% precision at 90% confidence as designed by Itron. Precision tends to decrease over time as the number of meters providing data decreases (due to communication issues or meters being replaced), so data prior to 2017 and closer to AMI deployment in late 2021 it is expected to have lower precision. All rate classes from columns L-Q and S in Partially Confidential Attachment 1 are fully sampled, so maximum precision is achieved for those rate classes.

(b) Please refer to Attachment 2.

REDACTED

(c) The unmetered load shape is an assumed shape that represents primarily streetlight use (on at night, varying with hours of daylight) as this is the bulk of the class.

COSS CA DR-58 Partially Confidential Attachment 1 has been removed due to confidentiality.

Date	Time	System (MW)
1/2/2014	18:00	2,121.6
1/2/2014	19:00	2,096.3
1/2/2014	20:00	2,072.6
1/2/2014	21:00	2,021.7
1/3/2014	13:00	2,020.7
1/2/2014	17:00	2,017.6
1/3/2014	18:00	1,997.9
1/3/2014	14:00	1,995.1
1/2/2014	16:00	1,962.5
1/3/2014	12:00	1,959.4
1/3/2014	15:00	1,950.4
1/2/2014	22:00	1,946.6
1/2/2014	13:00	1,945.0
1/2/2014	14:00	1,941.4
1/3/2014	17:00	1,940.2
1/2/2014	15:00	1,939.1
1/3/2014	16:00	1,932.6
1/10/2014	8:00	1,931.9
1/2/2014	10:00	1,931.8
1/3/2014	19:00	1,925.1
1/8/2014	19:00	1,922.8
1/7/2014	21:00	1,921.1
1/8/2014	20:00	1,920.8
1/2/2014	11:00	1,919.6
1/3/2014	11:00	1,913.3
1/8/2014	18:00	1,910.2
1/2/2014	12:00	1,910.0
1/7/2014	20:00	1,902.0
1/7/2014	19:00	1,901.6
1/7/2014	18:00	1,899.3
1/1/2014	18:00	1,897.0
1/10/2014	9:00	1,896.3
1/8/2014	8:00	1,893.1
1/8/2014	9:00	1,886.8
2/12/2014	8:00	1,880.7
1/8/2014	10:00	1,880.6
1/2/2014	9:00	1,878.7
1/10/2014	7:00	1,876.5
1/1/2014	19:00	1,875.0
2/13/2014	9:00	1,873.5
12/31/2014	18:00	1,872.6
1/8/2014	21:00	1,872.3
2/13/2014	19:00	1,871.8
1/3/2014	20:00	1,871.6
2/12/2014	9:00	1,870.8
2/13/2014	18:00	1,870.2

Date	Time	System (MW)
2/17/2014	19:00	1,869.9
2/13/2014	8:00	1,869.8
1/4/2014	10:00	1,868.9
1/28/2014	18:00	1,867.0
1/22/2014	13:00	1,865.6
12/30/2014	18:00	1,864.8
1/4/2014	18:00	1,863.4
2/13/2014	10:00	1,863.1
1/3/2014	10:00	1,863.0
1/28/2014	19:00	1,862.0
1/29/2014	13:00	1,856.9
12/30/2014	19:00	1,856.2
1/8/2014	13:00	1,854.9
1/22/2014	18:00	1,854.9
1/1/2014	20:00	1,854.8
1/9/2014	19:00	1,854.8
1/4/2014	9:00	1,854.4
3/6/2014	8:00	1,853.0
1/2/2014	23:00	1,848.6
1/4/2014	11:00	1,848.4
1/7/2014	22:00	1,847.7
1/24/2014	9:00	1,846.4
1/29/2014	18:00	1,845.8
3/26/2014	12:00	1,843.4
1/10/2014	10:00	1,842.4
1/2/2014	8:00	1,842.2
1/8/2014	11:00	1,842.1
2/17/2014	20:00	1,841.1
1/9/2014	18:00	1,841.1
3/4/2014	8:00	1,841.0
3/26/2014	13:00	1,840.5
1/4/2014	19:00	1,840.3
2/18/2014	8:00	1,839.8
1/28/2014	20:00	1,839.6
1/29/2014	19:00	1,839.4
1/21/2014	19:00	1,839.4
12/31/2014	19:00	1,839.1
1/21/2014	18:00	1,839.1
1/24/2014	8:00	1,837.6
1/8/2014	12:00	1,837.5
1/26/2014	19:00	1,836.8
1/23/2014	19:00	1,835.9
2/17/2014	18:00	1,835.2
2/13/2014	20:00	1,834.9
1/25/2014	10:00	1,834.7
12/2/2014	19:00	1,834.3

Date	Time	System (MW)
1/29/2014	14:00	1,831.8
1/22/2014	14:00	1,830.7
1/25/2014	18:00	1,830.4
1/9/2014	20:00	1,830.2
1/22/2014	12:00	1,828.0
1/3/2014	21:00	1,827.7
1/4/2014	8:00	1,827.7
1/1/2014	21:00	1,827.5
1/6/2015	18:00	2,015.0
1/6/2015	19:00	1,992.0
1/8/2015	18:00	1,989.0
2/11/2015	19:00	1,987.0
1/8/2015	19:00	1,984.0
2/2/2015	18:00	1,979.0
2/24/2015	20:00	1,975.0
2/9/2015	19:00	1,971.0
1/8/2015	20:00	1,965.0
2/11/2015	20:00	1,962.0
2/9/2015	9:00	1,959.0
1/6/2015	20:00	1,957.0
2/11/2015	18:00	1,952.0
2/24/2015	19:00	1,952.0
1/17/2015	18:00	1,949.0
2/2/2015	9:00	1,948.0
1/17/2015	19:00	1,947.0
1/14/2015	8:00	1,946.0
1/14/2015	9:00	1,945.0
2/9/2015	10:00	1,943.0
2/2/2015	19:00	1,941.0
2/9/2015	18:00	1,936.0
1/3/2015	18:00	1,935.0
2/2/2015	10:00	1,934.0
2/2/2015	13:00	1,934.0
2/2/2015	8:00	1,933.0
2/9/2015	20:00	1,932.0
2/2/2015	14:00	1,924.0
1/6/2015	17:00	1,923.0
2/2/2015	17:00	1,923.0
2/9/2015	21:00	1,921.0
1/8/2015	21:00	1,917.0
2/11/2015	21:00	1,917.0
1/7/2015	9:00	1,915.0
1/9/2015	9:00	1,915.0
2/24/2015	9:00	1,915.0
1/9/2015	8:00	1,913.0
2/9/2015	11:00	1,912.0

Date	Time	System (MW)
1/3/2015	19:00	1,909.0
2/24/2015	21:00	1,909.0
1/17/2015	20:00	1,908.0
2/2/2015	11:00	1,908.0
2/24/2015	8:00	1,907.0
1/7/2015	18:00	1,906.0
2/8/2015	19:00	1,905.0
2/2/2015	20:00	1,903.0
1/7/2015	10:00	1,902.0
2/10/2015	8:00	1,902.0
2/8/2015	20:00	1,901.0
2/9/2015	13:00	1,901.0
2/2/2015	16:00	1,900.0
2/4/2015	8:00	1,899.0
1/6/2015	21:00	1,898.0
2/9/2015	8:00	1,898.0
2/10/2015	11:00	1,897.0
2/8/2015	21:00	1,896.0
2/2/2015	7:00	1,895.0
2/2/2015	12:00	1,894.0
2/4/2015	9:00	1,894.0
1/7/2015	8:00	1,893.0
2/1/2015	19:00	1,893.0
1/9/2015	10:00	1,891.0
2/9/2015	17:00	1,891.0
2/3/2015	19:00	1,888.0
2/10/2015	10:00	1,887.0
2/16/2015	13:00	1,886.0
1/27/2015	13:00	1,885.0
1/6/2015	8:00	1,884.0
2/2/2015	15:00	1,884.0
2/9/2015	7:00	1,883.0
2/10/2015	9:00	1,883.0
1/6/2015	9:00	1,882.0
1/14/2015	10:00	1,880.0
1/27/2015	12:00	1,880.0
2/7/2015	9:00	1,880.0
2/1/2015	20:00	1,876.0
2/9/2015	12:00	1,876.0
2/9/2015	14:00	1,874.0
2/24/2015	10:00	1,874.0
2/13/2015	19:00	1,873.0
1/7/2015	19:00	1,872.0
2/3/2015	20:00	1,871.0
2/11/2015	17:00	1,869.0
1/17/2015	21:00	1,867.0

Date	Time	System (MW)
1/8/2015	9:00	1,866.0
1/7/2015	11:00	1,865.0
2/24/2015	13:00	1,865.0
1/6/2015	10:00	1,864.0
12/29/2015	18:00	1,862.0
1/14/2015	7:00	1,861.0
2/2/2015	21:00	1,861.0
2/9/2015	15:00	1,857.0
2/11/2015	9:00	1,857.0
2/24/2015	18:00	1,856.0
2/16/2015	19:00	1,855.0
1/8/2015	17:00	1,853.0
2/12/2015	9:00	1,853.0
2/8/2015	18:00	1,852.0
2/16/2015	12:00	1,852.0
1/9/2015	11:00	1,850.0
2/1/2015	18:00	1,850.0
2/9/2015	22:00	1,850.0
12/16/2016	18:00	2,111.0
12/16/2016	19:00	2,075.2
12/16/2016	20:00	2,045.5
12/16/2016	21:00	2,022.9
12/16/2016	17:00	2,011.2
12/16/2016	11:00	1,979.8
12/16/2016	13:00	1,979.5
12/16/2016	12:00	1,973.2
12/16/2016	10:00	1,963.6
12/16/2016	16:00	1,953.5
12/16/2016	14:00	1,940.3
12/16/2016	22:00	1,931.4
12/12/2016	18:00	1,929.6
12/16/2016	15:00	1,925.1
12/11/2016	18:00	1,912.4
12/16/2016	9:00	1,903.8
12/12/2016	11:00	1,900.9
12/12/2016	17:00	1,900.1
12/12/2016	10:00	1,894.0
12/20/2016	9:00	1,887.8
12/17/2016	10:00	1,884.2
2/15/2016	10:00	1,883.0
12/12/2016	13:00	1,883.0
12/12/2016	9:00	1,879.8
12/17/2016	9:00	1,875.8
2/15/2016	9:00	1,874.0
12/11/2016	19:00	1,873.8
12/11/2016	17:00	1,872.8

Date	Time	System (MW)
12/20/2016	8:00	1,870.2
12/12/2016	14:00	1,866.0
2/14/2016	19:00	1,865.0
12/11/2016	21:00	1,862.6
2/14/2016	20:00	1,862.0
12/12/2016	12:00	1,856.2
2/15/2016	11:00	1,856.0
12/12/2016	16:00	1,854.0
12/11/2016	20:00	1,853.0
12/12/2016	19:00	1,849.4
12/17/2016	18:00	1,849.3
2/8/2016	18:00	1,847.0
2/13/2016	18:00	1,847.0
2/13/2016	19:00	1,846.0
12/12/2016	15:00	1,845.7
12/12/2016	8:00	1,845.1
12/10/2016	18:00	1,843.9
12/16/2016	8:00	1,842.6
12/19/2016	18:00	1,841.8
12/20/2016	18:00	1,841.5
2/15/2016	8:00	1,841.0
2/8/2016	19:00	1,838.0
12/17/2016	11:00	1,835.6
2/13/2016	20:00	1,833.0
2/15/2016	12:00	1,833.0
1/19/2016	20:00	1,832.0
12/20/2016	10:00	1,831.2
1/19/2016	18:00	1,831.0
12/20/2016	19:00	1,831.0
2/14/2016	21:00	1,829.0
2/14/2016	12:00	1,828.0
12/16/2016	23:00	1,826.5
12/17/2016	8:00	1,824.9
12/19/2016	20:00	1,824.5
12/20/2016	20:00	1,821.5
2/13/2016	21:00	1,820.0
1/21/2016	18:00	1,819.0
12/19/2016	19:00	1,816.6
2/13/2016	16:00	1,816.0
2/8/2016	13:00	1,815.0
2/13/2016	10:00	1,815.0
1/19/2016	19:00	1,813.0
2/14/2016	11:00	1,813.0
1/21/2016	19:00	1,812.0
12/10/2016	19:00	1,812.0
2/15/2016	19:00	1,811.0

Date	Time	System (MW)
2/15/2016	20:00	1,811.0
2/8/2016	14:00	1,810.0
12/19/2016	21:00	1,809.9
2/12/2016	19:00	1,808.0
12/17/2016	12:00	1,807.1
2/13/2016	17:00	1,805.0
2/14/2016	22:00	1,805.0
1/15/2016	9:00	1,802.0
12/11/2016	12:00	1,800.8
1/15/2016	8:00	1,800.0
2/14/2016	18:00	1,800.0
1/5/2016	18:00	1,799.0
2/8/2016	15:00	1,799.0
2/14/2016	13:00	1,799.0
1/16/2016	18:00	1,797.0
1/14/2016	18:00	1,796.0
2/8/2016	17:00	1,796.0
12/16/2016	7:00	1,793.4
2/13/2016	15:00	1,791.0
12/13/2016	18:00	1,791.0
2/15/2016	7:00	1,790.0
12/16/2016	24:00	1,789.9
12/11/2016	22:00	1,788.4
2/14/2016	10:00	1,788.0
2/8/2016	20:00	1,787.0
12/17/2016	17:00	1,786.5
12/28/2017	18:00	2,017.6
12/28/2017	19:00	1,986.6
12/28/2017	20:00	1,950.3
1/9/2017	18:00	1,946.0
12/28/2017	17:00	1,943.0
12/31/2017	18:00	1,939.8
12/27/2017	18:00	1,935.3
1/9/2017	19:00	1,929.0
12/27/2017	19:00	1,921.1
1/9/2017	20:00	1,921.0
1/10/2017	9:00	1,915.0
1/10/2017	8:00	1,912.0
12/28/2017	21:00	1,900.9
12/27/2017	20:00	1,895.9
1/16/2017	9:00	1,894.0
12/28/2017	13:00	1,890.3
12/28/2017	16:00	1,889.4
1/15/2017	19:00	1,889.0
2/10/2017	18:00	1,888.0
2/7/2017	9:00	1,887.0

Date	Time	System (MW)
1/15/2017	18:00	1,883.0
3/4/2017	20:00	1,882.0
12/31/2017	19:00	1,882.0
12/28/2017	10:00	1,877.6
2/7/2017	8:00	1,877.0
12/28/2017	11:00	1,876.2
1/9/2017	21:00	1,875.0
1/15/2017	20:00	1,875.0
1/9/2017	9:00	1,871.0
12/28/2017	12:00	1,864.6
2/10/2017	19:00	1,863.0
2/4/2017	19:00	1,861.0
2/7/2017	19:00	1,861.0
3/4/2017	19:00	1,861.0
1/10/2017	10:00	1,857.0
12/28/2017	14:00	1,856.7
12/27/2017	21:00	1,855.3
1/16/2017	8:00	1,854.0
3/4/2017	21:00	1,854.0
12/28/2017	15:00	1,851.7
2/4/2017	18:00	1,850.0
3/11/2017	20:00	1,847.0
1/9/2017	10:00	1,844.0
12/27/2017	17:00	1,843.8
1/16/2017	10:00	1,842.0
2/7/2017	18:00	1,842.0
12/28/2017	9:00	1,839.1
2/4/2017	20:00	1,839.0
12/18/2017	8:00	1,839.0
12/18/2017	18:00	1,838.4
1/15/2017	21:00	1,838.0
2/7/2017	10:00	1,838.0
2/7/2017	20:00	1,838.0
1/9/2017	8:00	1,837.0
2/10/2017	20:00	1,837.0
2/10/2017	21:00	1,837.0
1/15/2017	17:00	1,836.0
2/7/2017	21:00	1,833.0
12/31/2017	17:00	1,832.7
3/5/2017	10:00	1,830.0
12/30/2017	18:00	1,829.0
1/9/2017	17:00	1,827.0
3/5/2017	21:00	1,827.0
2/10/2017	13:00	1,826.0
3/12/2017	13:00	1,826.0
1/16/2017	18:00	1,824.0

Date	Time	System (MW)
12/17/2017	18:00	1,823.2
3/11/2017	19:00	1,823.0
3/11/2017	21:00	1,821.0
3/12/2017	12:00	1,820.0
3/12/2017	11:00	1,819.0
1/10/2017	7:00	1,818.0
1/8/2017	18:00	1,817.0
3/5/2017	11:00	1,817.0
1/9/2017	11:00	1,816.0
12/31/2017	20:00	1,815.8
2/6/2017	19:00	1,815.0
12/18/2017	9:00	1,815.0
12/28/2017	22:00	1,814.6
2/7/2017	22:00	1,814.0
2/10/2017	17:00	1,814.0
12/29/2017	18:00	1,813.4
1/24/2017	18:00	1,812.0
3/4/2017	22:00	1,811.0
12/21/2017	18:00	1,810.7
12/30/2017	19:00	1,809.9
1/24/2017	19:00	1,809.0
2/7/2017	7:00	1,809.0
2/9/2017	19:00	1,809.0
3/6/2017	8:00	1,807.0
2/1/2017	9:00	1,806.0
2/10/2017	12:00	1,806.0
3/5/2017	20:00	1,806.0
3/5/2017	12:00	1,803.0
1/14/2017	18:00	1,802.0
3/12/2017	21:00	1,802.0
12/28/2017	7:00	1,801.8
2/10/2017	14:00	1,800.0
12/27/2017	22:00	1,799.7
12/17/2017	19:00	1,799.1
1/7/2018	18:00	2,072.5
1/7/2018	19:00	2,056.0
1/6/2018	18:00	2,051.7
1/7/2018	20:00	2,032.8
1/6/2018	19:00	2,024.8
2/3/2018	19:00	1,998.5
1/6/2018	20:00	1,991.6
12/12/2018	18:00	1,985.8
1/2/2018	18:00	1,980.4
1/7/2018	21:00	1,973.4
1/2/2018	19:00	1,971.7
2/3/2018	20:00	1,970.9

Date	Time	System (MW)
1/7/2018	17:00	1,969.2
1/6/2018	17:00	1,966.2
2/3/2018	18:00	1,962.1
12/27/2018	19:00	1,954.3
12/27/2018	18:00	1,953.9
1/6/2018	21:00	1,950.1
12/9/2018	18:00	1,949.3
12/30/2018	18:00	1,945.0
11/22/2018	18:00	1,941.6
1/7/2018	11:00	1,939.1
1/2/2018	20:00	1,938.5
12/12/2018	20:00	1,937.1
12/12/2018	19:00	1,935.9
1/7/2018	12:00	1,934.8
12/9/2018	19:00	1,930.3
11/23/2018	18:00	1,928.7
2/3/2018	21:00	1,926.1
12/28/2018	18:00	1,925.4
1/7/2018	10:00	1,924.8
12/30/2018	19:00	1,920.0
1/7/2018	13:00	1,915.7
12/27/2018	20:00	1,914.3
12/12/2018	21:00	1,914.0
12/9/2018	20:00	1,912.7
1/30/2018	13:00	1,911.4
12/12/2018	17:00	1,909.3
2/3/2018	10:00	1,907.8
12/8/2018	18:00	1,905.3
12/10/2018	20:00	1,904.6
12/8/2018	19:00	1,901.2
1/3/2018	9:00	1,900.8
12/10/2018	19:00	1,897.7
12/10/2018	18:00	1,897.4
12/14/2018	8:00	1,896.8
1/7/2018	22:00	1,895.4
1/2/2018	21:00	1,894.3
12/27/2018	21:00	1,894.0
11/22/2018	19:00	1,892.9
12/14/2018	9:00	1,892.7
1/6/2018	22:00	1,892.4
12/30/2018	20:00	1,892.4
12/18/2018	18:00	1,890.7
11/23/2018	19:00	1,886.9
12/11/2018	8:00	1,885.6
1/3/2018	8:00	1,883.3
12/10/2018	21:00	1,880.3

Date	Time	System (MW)
2/3/2018	22:00	1,879.9
12/8/2018	20:00	1,879.1
12/13/2018	8:00	1,878.2
11/22/2018	20:00	1,878.1
11/23/2018	9:00	1,877.8
1/7/2018	14:00	1,876.3
12/13/2018	18:00	1,874.3
2/3/2018	9:00	1,874.2
12/11/2018	9:00	1,873.7
12/9/2018	21:00	1,873.5
11/23/2018	20:00	1,873.2
1/2/2018	17:00	1,873.0
1/7/2018	9:00	1,872.5
12/13/2018	9:00	1,872.5
1/6/2018	12:00	1,871.5
1/27/2018	9:00	1,870.6
12/19/2018	21:00	1,870.6
1/2/2018	13:00	1,869.7
1/6/2018	11:00	1,868.5
1/6/2018	13:00	1,868.3
1/17/2018	18:00	1,866.8
1/7/2018	16:00	1,866.4
1/10/2018	8:00	1,865.3
11/23/2018	13:00	1,865.1
12/19/2018	20:00	1,865.1
11/22/2018	17:00	1,864.4
12/28/2018	19:00	1,863.0
12/19/2018	19:00	1,862.3
11/23/2018	8:00	1,862.0
1/6/2018	16:00	1,861.4
1/30/2018	12:00	1,860.7
12/30/2018	21:00	1,859.8
12/19/2018	18:00	1,858.2
1/7/2018	15:00	1,853.5
11/23/2018	12:00	1,853.2
1/2/2018	12:00	1,852.8
1/26/2018	21:00	1,852.1
12/28/2018	17:00	1,852.0
11/22/2018	21:00	1,851.7
12/12/2018	9:00	1,851.7
11/23/2018	17:00	1,851.4
2/14/2018	8:00	1,850.5
2/27/2019	8:00	2,060.3
2/27/2019	9:00	2,049.0
1/17/2019	19:00	2,033.1
1/17/2019	20:00	2,026.5

Date	Time	System (MW)
1/17/2019	18:00	2,003.8
1/17/2019	21:00	1,998.7
2/27/2019	10:00	1,997.3
2/26/2019	20:00	1,984.1
2/27/2019	7:00	1,982.4
1/31/2019	19:00	1,980.2
2/20/2019	7:00	1,978.1
2/9/2019	19:00	1,977.6
2/26/2019	19:00	1,976.8
2/26/2019	21:00	1,964.2
2/2/2019	18:00	1,963.6
1/7/2019	18:00	1,963.5
1/31/2019	20:00	1,963.0
1/22/2019	18:00	1,961.4
1/12/2019	18:00	1,961.1
2/1/2019	18:00	1,959.1
1/22/2019	19:00	1,958.8
1/18/2019	8:00	1,957.7
2/1/2019	8:00	1,957.2
1/18/2019	9:00	1,957.0
2/9/2019	18:00	1,951.6
1/31/2019	18:00	1,950.8
2/27/2019	11:00	1,946.2
2/20/2019	8:00	1,946.2
2/2/2019	19:00	1,946.1
1/7/2019	19:00	1,944.1
1/17/2019	22:00	1,938.9
2/9/2019	20:00	1,937.7
1/31/2019	21:00	1,933.4
1/7/2019	20:00	1,933.3
2/11/2019	18:00	1,926.4
1/12/2019	19:00	1,926.3
2/11/2019	19:00	1,922.8
1/14/2019	8:00	1,921.1
2/20/2019	9:00	1,920.9
2/10/2019	19:00	1,920.7
1/14/2019	9:00	1,920.6
1/23/2019	9:00	1,919.4
2/26/2019	22:00	1,918.7
1/23/2019	8:00	1,916.6
2/13/2019	13:00	1,915.8
2/1/2019	19:00	1,915.1
2/28/2019	8:00	1,914.4
2/26/2019	9:00	1,912.7
2/26/2019	10:00	1,910.5
1/12/2019	12:00	1,910.1

Date	Time	System (MW)
1/22/2019	20:00	1,909.7
2/19/2019	19:00	1,909.3
1/12/2019	11:00	1,909.1
1/22/2019	8:00	1,907.6
1/18/2019	10:00	1,907.1
2/10/2019	20:00	1,906.7
1/20/2019	12:00	1,904.8
2/11/2019	20:00	1,903.3
2/12/2019	8:00	1,902.4
1/20/2019	13:00	1,900.2
2/26/2019	18:00	1,896.4
1/2/2019	18:00	1,896.2
2/27/2019	12:00	1,895.4
2/28/2019	9:00	1,894.5
1/12/2019	10:00	1,891.3
2/11/2019	8:00	1,891.1
2/11/2019	9:00	1,888.9
1/15/2019	8:00	1,888.5
1/20/2019	11:00	1,888.4
1/17/2019	9:00	1,888.1
3/8/2019	8:00	1,887.6
1/12/2019	17:00	1,887.4
2/13/2019	12:00	1,887.2
1/15/2019	18:00	1,884.6
2/19/2019	20:00	1,884.4
1/7/2019	21:00	1,884.3
2/1/2019	7:00	1,883.9
2/1/2019	20:00	1,883.3
2/13/2019	14:00	1,882.4
2/27/2019	20:00	1,881.4
2/1/2019	9:00	1,880.6
2/2/2019	20:00	1,880.6
1/12/2019	20:00	1,880.1
1/22/2019	21:00	1,879.4
2/10/2019	18:00	1,878.6
2/1/2019	14:00	1,878.3
1/3/2019	9:00	1,877.9
2/2/2019	17:00	1,877.2
1/22/2019	17:00	1,875.3
1/17/2019	17:00	1,874.9
1/31/2019	22:00	1,874.4
2/26/2019	8:00	1,874.1
2/27/2019	19:00	1,874.1
2/12/2019	9:00	1,873.8
2/11/2019	21:00	1,873.5
1/18/2019	11:00	1,873.5

Date	Time	System (MW)
2/1/2019	17:00	1,873.4
1/2/2019	19:00	1,872.0
2/2/2019	9:00	1,871.1
3/1/2019	8:00	1,870.4
1/17/2020	18:00	2,050.3
1/17/2020	19:00	2,031.7
1/9/2020	18:00	1,982.4
1/17/2020	20:00	1,982.3
1/22/2020	9:00	1,981.9
1/22/2020	8:00	1,970.6
1/9/2020	19:00	1,965.7
1/18/2020	10:00	1,956.3
2/21/2020	8:00	1,950.6
1/18/2020	18:00	1,948.7
1/17/2020	17:00	1,942.4
1/9/2020	20:00	1,939.4
1/18/2020	19:00	1,939.0
1/17/2020	21:00	1,936.9
1/18/2020	9:00	1,933.1
1/18/2020	11:00	1,927.6
2/21/2020	9:00	1,922.7
2/15/2020	9:00	1,918.6
12/16/2020	18:00	1,916.5
1/21/2020	19:00	1,908.4
1/21/2020	20:00	1,906.4
12/16/2020	20:00	1,904.8
1/9/2020	21:00	1,904.0
1/22/2020	10:00	1,903.6
1/17/2020	13:00	1,903.0
1/18/2020	20:00	1,901.7
3/7/2020	13:00	1,897.5
1/17/2020	16:00	1,897.3
1/17/2020	10:00	1,894.9
12/16/2020	19:00	1,891.9
3/7/2020	12:00	1,889.2
2/15/2020	10:00	1,888.3
1/21/2020	21:00	1,884.3
1/21/2020	18:00	1,882.9
1/17/2020	14:00	1,882.3
1/17/2020	12:00	1,882.2
2/15/2020	8:00	1,880.9
1/9/2020	17:00	1,880.2
1/18/2020	12:00	1,877.9
2/14/2020	19:00	1,874.2
1/17/2020	22:00	1,873.1
12/15/2020	18:00	1,870.2

Date	Time	System (MW)
1/17/2020	9:00	1,870.2
3/7/2020	14:00	1,869.6
3/7/2020	11:00	1,868.5
1/21/2020	9:00	1,868.3
2/21/2020	7:00	1,868.0
1/17/2020	15:00	1,867.5
1/22/2020	7:00	1,864.5
1/31/2020	8:00	1,864.1
12/17/2020	18:00	1,860.2
1/17/2020	11:00	1,860.0
2/14/2020	20:00	1,859.4
1/31/2020	9:00	1,857.2
2/21/2020	10:00	1,853.8
1/18/2020	8:00	1,853.6
1/10/2020	9:00	1,851.6
1/18/2020	21:00	1,850.9
1/21/2020	8:00	1,849.4
12/16/2020	21:00	1,849.1
2/15/2020	19:00	1,848.7
1/17/2020	8:00	1,847.0
12/15/2020	19:00	1,843.9
1/9/2020	22:00	1,840.9
1/18/2020	17:00	1,839.7
2/14/2020	21:00	1,839.7
2/20/2020	20:00	1,839.3
1/10/2020	8:00	1,838.8
1/10/2020	10:00	1,835.8
1/18/2020	13:00	1,834.7
12/15/2020	20:00	1,830.6
2/15/2020	20:00	1,830.0
3/7/2020	18:00	1,829.8
12/16/2020	10:00	1,829.7
12/16/2020	9:00	1,828.0
12/15/2020	21:00	1,827.8
12/16/2020	17:00	1,827.1
3/7/2020	19:00	1,825.9
2/20/2020	19:00	1,825.2
2/15/2020	11:00	1,822.7
3/7/2020	10:00	1,821.2
12/15/2020	17:00	1,817.7
2/20/2020	21:00	1,816.8
1/21/2020	22:00	1,816.6
1/22/2020	11:00	1,816.6
1/23/2020	8:00	1,812.9
1/21/2020	10:00	1,812.8
2/22/2020	10:00	1,812.3

Date	Time	System (MW)
1/9/2020	16:00	1,810.2
1/23/2020	9:00	1,808.6
2/10/2020	17:00	1,808.1
3/7/2020	17:00	1,807.8
1/5/2020	18:00	1,807.6
1/17/2020	23:00	1,807.6
1/8/2020	18:00	1,807.4
1/30/2020	9:00	1,803.5
1/30/2020	19:00	1,803.1
12/17/2020	17:00	1,802.1
1/9/2020	9:00	1,801.8
2/22/2020	11:00	1,801.6
3/2/2021	19:00	1,968.4
12/24/2021	18:00	1,956.6
2/12/2021	9:00	1,951.0
3/2/2021	18:00	1,945.7
3/2/2021	20:00	1,943.7
12/20/2021	18:00	1,928.9
12/23/2021	18:00	1,927.7
12/23/2021	19:00	1,915.9
2/12/2021	8:00	1,910.9
2/12/2021	10:00	1,910.2
12/20/2021	19:00	1,909.0
12/23/2021	20:00	1,907.1
12/24/2021	19:00	1,899.7
12/24/2021	17:00	1,894.3
3/19/2021	13:00	1,891.8
3/2/2021	17:00	1,890.9
3/2/2021	21:00	1,887.1
12/20/2021	20:00	1,883.7
12/24/2021	10:00	1,873.1
12/24/2021	13:00	1,871.0
3/19/2021	14:00	1,870.9
12/23/2021	21:00	1,870.5
3/15/2021	21:00	1,868.8
2/11/2021	19:00	1,867.1
3/15/2021	20:00	1,865.4
3/16/2021	9:00	1,864.9
12/9/2021	18:00	1,864.2
2/11/2021	18:00	1,855.8
3/15/2021	18:00	1,855.2
12/24/2021	20:00	1,853.6
3/19/2021	12:00	1,850.9
12/19/2021	18:00	1,850.5
12/24/2021	9:00	1,848.9
12/24/2021	11:00	1,847.5

Date	Time	System (MW)
2/12/2021	11:00	1,846.5
12/20/2021	21:00	1,845.9
2/11/2021	8:00	1,845.8
2/11/2021	20:00	1,845.6
3/2/2021	16:00	1,844.2
2/11/2021	9:00	1,842.2
2/26/2021	9:00	1,840.2
3/3/2021	8:00	1,838.9
3/16/2021	10:00	1,837.4
1/24/2021	18:00	1,836.2
3/16/2021	8:00	1,833.9
12/24/2021	12:00	1,833.7
3/15/2021	22:00	1,832.9
12/24/2021	14:00	1,830.8
2/12/2021	7:00	1,829.5
3/2/2021	15:00	1,828.1
1/2/2021	18:00	1,825.1
3/15/2021	19:00	1,824.2
2/26/2021	8:00	1,823.1
12/20/2021	17:00	1,823.1
2/12/2021	12:00	1,822.7
3/15/2021	17:00	1,820.1
12/24/2021	16:00	1,819.5
3/15/2021	14:00	1,819.1
12/9/2021	17:00	1,817.7
12/23/2021	22:00	1,817.1
12/24/2021	21:00	1,816.9
12/9/2021	19:00	1,816.4
2/12/2021	13:00	1,812.5
12/15/2021	18:00	1,811.9
3/19/2021	11:00	1,811.3
3/2/2021	13:00	1,810.1
12/23/2021	17:00	1,809.8
2/26/2021	10:00	1,809.4
2/11/2021	21:00	1,808.9
3/3/2021	9:00	1,808.4
3/2/2021	14:00	1,804.2
12/10/2021	9:00	1,804.0
1/29/2021	18:00	1,801.3
12/14/2021	18:00	1,801.3
12/24/2021	15:00	1,800.1
2/16/2021	13:00	1,800.0
1/24/2021	17:00	1,799.7
1/23/2021	18:00	1,798.8
3/15/2021	15:00	1,798.5
3/2/2021	22:00	1,797.5

Date	Time	System (MW)
2/11/2021	10:00	1,797.0
3/19/2021	15:00	1,796.7
3/16/2021	11:00	1,794.5
2/18/2021	19:00	1,794.2
3/15/2021	16:00	1,793.9
12/15/2021	19:00	1,793.0
12/19/2021	19:00	1,792.6
12/10/2021	8:00	1,790.2
1/30/2021	11:00	1,789.0
1/21/2021	9:00	1,788.6
1/30/2021	20:00	1,787.2
2/16/2021	14:00	1,786.0
12/10/2021	18:00	1,785.6
12/15/2021	20:00	1,784.8
2/9/2021	8:00	1,784.3
12/14/2021	19:00	1,783.6
1/29/2021	19:00	1,783.4
2/20/2021	10:00	1,783.4
3/15/2021	13:00	1,783.0
12/23/2021	11:00	1,782.8
1/11/2022	18:00	2,215.7
1/11/2022	19:00	2,179.2
1/11/2022	20:00	2,146.9
1/11/2022	17:00	2,138.1
1/12/2022	9:00	2,132.4
1/12/2022	10:00	2,112.4
2/15/2022	19:00	2,112.0
2/16/2022	8:00	2,109.0
1/11/2022	21:00	2,108.9
1/15/2022	18:00	2,104.8
2/2/2022	9:00	2,099.9
1/11/2022	10:00	2,098.0
1/12/2022	18:00	2,094.4
2/15/2022	20:00	2,090.3
2/2/2022	8:00	2,088.2
2/16/2022	7:00	2,088.0
1/11/2022	11:00	2,086.4
1/12/2022	11:00	2,085.2
1/11/2022	12:00	2,083.9
2/2/2022	10:00	2,078.9
2/16/2022	9:00	2,078.4
1/11/2022	9:00	2,076.5
1/15/2022	19:00	2,076.3
1/12/2022	13:00	2,076.2
1/11/2022	13:00	2,073.9
1/12/2022	8:00	2,072.1

Date	Time	System (MW)
1/12/2022	14:00	2,069.7
1/12/2022	17:00	2,067.8
1/12/2022	12:00	2,066.3
2/15/2022	18:00	2,061.5
2/15/2022	21:00	2,051.6
1/12/2022	15:00	2,048.5
1/11/2022	16:00	2,043.7
1/22/2022	11:00	2,043.1
1/27/2022	9:00	2,043.1
1/11/2022	14:00	2,035.9
1/11/2022	22:00	2,035.1
1/27/2022	8:00	2,034.2
2/6/2022	20:00	2,032.6
1/22/2022	10:00	2,031.6
1/15/2022	20:00	2,029.3
2/6/2022	19:00	2,026.8
1/12/2022	16:00	2,026.7
1/12/2022	7:00	2,024.5
3/1/2022	8:00	2,024.0
2/1/2022	9:00	2,023.5
2/2/2022	11:00	2,019.2
2/15/2022	22:00	2,014.3
1/22/2022	12:00	2,013.9
2/1/2022	8:00	2,011.8
2/28/2022	19:00	2,009.6
2/28/2022	20:00	2,008.5
3/1/2022	9:00	2,008.4
1/11/2022	15:00	2,006.9
1/12/2022	19:00	2,004.3
1/16/2022	18:00	2,003.7
1/22/2022	18:00	2,003.2
1/4/2022	18:00	1,998.2
2/6/2022	21:00	1,995.5
1/16/2022	19:00	1,995.4
1/11/2022	8:00	1,994.4
2/2/2022	7:00	1,993.5
1/27/2022	10:00	1,990.2
1/21/2022	19:00	1,987.1
1/15/2022	17:00	1,986.3
1/22/2022	13:00	1,984.2
2/16/2022	10:00	1,983.1
1/21/2022	18:00	1,981.6
2/15/2022	9:00	1,981.2
1/19/2022	9:00	1,980.0
2/14/2022	18:00	1,980.0
3/4/2022	8:00	1,979.4

Date	Time	System (MW)
1/22/2022	9:00	1,978.9
2/28/2022	10:00	1,978.7
1/15/2022	21:00	1,978.3
2/14/2022	19:00	1,978.2
2/15/2022	8:00	1,975.7
1/16/2022	20:00	1,975.5
2/25/2022	19:00	1,973.5
12/13/2022	18:00	1,973.5
2/25/2022	18:00	1,971.4
2/7/2022	9:00	1,970.0
1/27/2022	19:00	1,969.5
1/4/2022	19:00	1,969.4
1/17/2022	9:00	1,968.8
1/22/2022	19:00	1,966.4
2/25/2022	13:00	1,965.1
2/6/2022	18:00	1,964.5
2/28/2022	13:00	1,964.4
2/28/2022	21:00	1,962.8
1/21/2022	20:00	1,962.7
2/7/2022	10:00	1,959.1
2/2/2022	12:00	1,957.9
2/28/2022	11:00	1,957.1
2/15/2022	17:00	1,956.7
1/29/2022	13:00	1,955.2
2/16/2022	19:00	1,954.0
1/21/2022	10:00	1,952.9
1/27/2022	20:00	1,952.8
1/26/2022	19:00	1,950.7
2/4/2023	12:00	2,455.0
2/4/2023	11:00	2,451.4
2/4/2023	13:00	2,450.4
2/4/2023	19:00	2,431.2
2/4/2023	18:00	2,425.2
2/4/2023	10:00	2,418.4
2/4/2023	14:00	2,418.2
2/4/2023	20:00	2,382.4
2/4/2023	17:00	2,373.1
2/4/2023	15:00	2,360.9
2/4/2023	9:00	2,354.7
2/4/2023	16:00	2,345.3
2/4/2023	21:00	2,335.5
2/4/2023	8:00	2,286.7
2/4/2023	22:00	2,261.6
2/4/2023	7:00	2,223.7
2/4/2023	23:00	2,181.6
2/3/2023	20:00	2,174.7

Date	Time	System (MW)
2/3/2023	19:00	2,173.1
2/4/2023	6:00	2,171.1
2/4/2023	5:00	2,136.5
2/3/2023	18:00	2,136.3
2/3/2023	21:00	2,122.6
2/4/2023	4:00	2,115.1
2/4/2023	3:00	2,104.1
2/4/2023	24:00	2,103.6
2/3/2023	22:00	2,103.5
2/4/2023	2:00	2,102.5
2/4/2023	1:00	2,099.2
2/5/2023	10:00	2,080.4
2/3/2023	24:00	2,078.9
2/3/2023	23:00	2,075.1
2/5/2023	9:00	2,060.5
2/28/2023	8:00	2,058.4
2/27/2023	8:00	2,056.8
2/5/2023	11:00	2,053.6
2/2/2023	8:00	2,048.0
2/5/2023	1:00	2,043.8
12/22/2023	18:00	2,040.9
2/2/2023	9:00	2,038.7
2/24/2023	19:00	2,028.0
12/22/2023	17:00	2,024.3
2/5/2023	8:00	2,015.3
2/5/2023	12:00	2,013.1
2/5/2023	2:00	2,011.5
2/28/2023	9:00	2,010.9
2/25/2023	19:00	2,009.5
2/3/2023	17:00	2,008.5
2/25/2023	20:00	2,007.0
2/24/2023	18:00	2,005.5
2/27/2023	9:00	2,001.7
12/22/2023	19:00	2,001.4
2/24/2023	14:00	2,000.3
12/22/2023	12:00	1,996.8
2/24/2023	16:00	1,995.2
2/5/2023	13:00	1,993.5
2/24/2023	13:00	1,992.0
2/28/2023	7:00	1,991.4
2/5/2023	3:00	1,991.3
2/24/2023	20:00	1,991.0
2/24/2023	15:00	1,986.2
2/5/2023	7:00	1,982.5
2/27/2023	7:00	1,978.7
2/5/2023	4:00	1,977.9

Date	Time	System (MW)
2/26/2023	8:00	1,977.2
2/24/2023	17:00	1,975.5
2/25/2023	21:00	1,973.8
2/26/2023	9:00	1,971.8
2/25/2023	9:00	1,970.6
12/22/2023	16:00	1,969.7
2/25/2023	8:00	1,966.9
12/22/2023	13:00	1,965.5
2/5/2023	6:00	1,964.9
12/22/2023	20:00	1,964.8
12/22/2023	11:00	1,962.5
2/5/2023	5:00	1,961.8
2/25/2023	10:00	1,959.6
2/26/2023	19:00	1,957.1
12/22/2023	15:00	1,956.7
2/26/2023	20:00	1,951.6
12/22/2023	14:00	1,950.4
2/2/2023	10:00	1,950.3
12/22/2023	21:00	1,949.9
2/2/2023	7:00	1,946.1
2/24/2023	21:00	1,943.9
2/25/2023	11:00	1,939.8
2/24/2023	12:00	1,937.4
2/25/2023	18:00	1,937.0
2/23/2023	19:00	1,935.3
2/24/2023	11:00	1,933.5
2/24/2023	10:00	1,932.6
2/26/2023	10:00	1,932.3
12/22/2023	10:00	1,927.9
2/25/2023	22:00	1,926.2
2/5/2023	14:00	1,926.1
2/26/2023	7:00	1,924.9
2/23/2023	18:00	1,924.2
2/1/2023	9:00	1,923.9
2/7/2023	9:00	1,922.9
2/1/2023	19:00	1,919.7

NON-CONFIDENTIAL

Request DR-59:

Please explain how NS Power's estimates of class loads account for the power feed back into the distribution system from customer-owned solar, storage and other distributed resources.

Response DR-59:

Customer owned solar generation is modeled as an overall load reduction, but generation that is fed into the distribution system is not explicitly modeled.

Customer meter data is included in distribution system models for the calculation of hosting capacity and system impact studies for generator interconnection requests. Class load estimates are not required, as specific meter data is used.

Request DR-60:

Please provide a table listing each type of cost or system data that NS Power was unable to provide in response to the above data requests and to other parties' data requests. In the table, please provide the following information.

(a) The type of data and references to relevant data requests.

(b) The reason the cost or system data are unavailable.

(c) The reason that NS Power is not able to offer a reasonable estimate of the cost or system data, pending further work to gather more accurate information.

(d) A succinct description of the basic requirements that NS Power would need to obtain reasonably accurate cost or system data, considering the relevant purpose of the cost or system data. For example, the description should identify the types of new monitoring equipment, IT systems to be upgraded, and business practices to be modified.

(e) A schedule and cost estimate at a Class 5 (or better) level for undertaking projects to obtain the cost or system data.

Response DR-60:

Please refer to the table below. NS Power is unable to provide an estimate of the cost or system data, description of requirements to capture data, or provide a Class 5 or better schedule and cost estimate to obtain the data at this time. This information would require significant additional time to adequately scope the requirement and would require significant effort to compile, and this information therefore can not feasibly be provided in this forum.

NON-CONFIDENTIAL

DR	Type of Data	Reason Unavailable
CA DR-05	"Peaking" unit data from 2014-2017	Data has been provided from 2018-2023; data from 2014-2017 is not readily available.
CA DR-08	Bulk electric system reliability event data for past 10 years	Data has been provided from 2017-2023; data prior to 2017 is not available.
CA DR-12	Hourly operating costs	The company does not track actual cost data on an hourly period. Actual costs are provided in the FAM reports.
CA DR-13	Part (e): unit status for small hydro	Data has been provided for thermal units and WRC. Small hydro unit status is not readily available.
CA DR-16	Capital costs by EHV, HV, and bulk power substations	NS Power uses a pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets.
CA DR-28	Part (c): differentiation of count/cost by residential class by single-family detatched, multi-unit (individual meters) dwelling, and multi-unit (master metered) dwellings."	NS Power does not specifically differentiate residential between single-family, multi unit and multi unit metered dwellings.
CA DR-35	Number and cost of poles installed for most recent five years	NS Power does not track investment in poles by pole installation type.
CA DR-36	Costs of OH wire for each voltage level for most recent five years	NS Power does not track investment in overhead wire by voltage level.

DR	Type of Data	Reason Unavailable
CA DR-37	Costs of UG wire for each voltage level for most recent five years	NS Power does not track investment in underground wire by voltage level.
CA DR-38	Data breakdown for land/easements	NS Power does not track assets within the land or land rights depreciation pools by type of property control.
CA DR-39	Data re distribution substations: transformer peak loads (times and dates of individual transformer peak loads, peak load history prior to 2016	Transformer peak loads are validated during planning studies using multiple data sources, including feeder data. These peak loads may not be coincident with the system peak load. A summary of exact times and dates of individual transformer peak loads is not available. Transformer peak load history is provided from 2016 – 2023. Records prior to 2016 have not been maintained in the same format and would be difficult to collect.
CA DR-40	Data re feeders: feeder peak loads (times and dates of all distribution feeder peak loads)	A summary of exact times and dates of all distribution feeder peak loads is not available.
CA DR-48	Part (d): mix of service-drop wire types by class Part (g): percentage of small customers served off shared service drops	NS Power does not have the specific data requested.

DR	Type of Data	Reason Unavailable
CA DR-54	Studies or analysis of drivers of customer service costs by class	NS Power has not conducted any studies or analyses of the drivers of customer service cost by class in the recent past.
CA DR-62	Minimum system study data	NS Power did not collect requested information as part of the minimum system study survey.
CA DR-64	Minimum system study – length of feeder sections that share poles with one or more other feeders	The information requested is not tracked in GIS currently and therefore cannot be provided.
CA DR-67	Amount of demand per customer that could be accommodated by the minimum conductor	NS Power does not size conductors based on demand per customer therefore this information is not collected or calculated.
PHP DR-14	Part (l): hourly outage data	Hourly data is not available.

1

Request DR-61:

Please explain how NS Power's minimum system method study model sets the minimum equipment size for each of the following:

(a) Primary poles

(b) Secondary poles

(c) Primary conductor

(d) Secondary conductor

Response DR-61:

As presented in the Minimum System Study (MSS) of NS Power's distribution poles and wires, conducted by Concentric in the 2023-2024 GRA (please refer to CA DR-66 Attachment 1) and the Rebuttal Evidence of Concentric filed in the 2023-2024 GRA (please refer to Attachment 1), having examined the size and cost of poles and conductors of a sample of 42 feeders and having discussions with NS Power's distribution engineering personnel, Concentric chose the following minimum size poles and conductors.

(a) The minimum size primary pole set for the MSS was Penta/CCA/Creesote Class 5 40'. This is the minimum height[1] and the lowest cost 40-foot pole currently being installed by NS Power. Please refer to row 6 of "min_sys_poles" tab and row 35 of "Cost Tables" tab of CA DR-66 Attachment 1.

[1] Attachment 1, PDF page 11 of 19, lines 5 through 12.

(b) The minimum size secondary pole set for the MSS was Penta/CCA/Creesote Class 5 35'. This is the minimum height and the lowest cost 35-foot pole currently being installed by NS Power. Please refer to row 17 of "min_sys_poles" tab and row 33 of "Cost Tables" tab of CA DR-66 Attachment 1.

(c)

(i) The minimum size primary overhead conductor set for the MSS was AASC 2/0 w/ Neutral. This is the minimum size and the lowest cost primary overhead conductor in this class currently being installed by NS Power. Please refer to row 6 of "min_sys_cond" tab and row 38 of "Cost Tables" tab of CA DR-66 Attachment 1.

(ii) The minimum size primary underground conductor set for the MSS was Three Phase UG 500 MCM XLP. This is the minimum size primary three phase underground conductor currently being installed by NS Power. Please refer to row 34 of "min_sys_cond" tab and row 153 of "Cost Tables" tab of CA DR-66 Attachment 1.

(d)

(i) The minimum size secondary overhead conductor set for the MSS was AASC Triplex Poly. This is the minimum size and the lowest cost secondary overhead conductor in Triplex class currently being installed by NS Power. Please refer to row 20 of "min_sys_cond" tab and row 88 of "Cost Tables" tab of CA DR-66 Attachment 1.

(ii) The minimum size secondary underground conductor set for the MSS was Three Phase UG 500 MCM XLP. This is the minimum size secondary underground conductor currently being installed by NS Power. Please refer to row 48 of "min_sys_cond" tab and row 168 of "Cost Tables" tab of CA DR-66 Attachment 1.

NS POWER GENERAL RATE APPLICATION ("GRA"):

GRA COST OF SERVICE STUDY ELEMENTS - REBUTTAL

PREPARED FOR:
NOVA SCOTIA POWER, INC.

AUGUST 23, 2022

CONCENTRIC ENERGY ADVISORS

CEADVISORS.COM

©2022 CONCENTRIC ENERGY ADVISORS, INC. ALL RIGHTS RESERVED.

TABLE OF CONTENTS

Section 1: **Introduction and Purpose** **1**

Section 2: **Theory Underpinning the Minimum System Study** **2**

Description of the MSS *2*

Zero Intercept Study *3*

Minimum Size Selection *3*

Prevalence in the Industry *4*

PRIOR COSS *5*

Section 3: **Response to Intervenor Evidence Regarding THE Minimum System** **6**

Minimum System Costs are Customer-related *6*

Relationship to Customer Additions *6*

Relationship between Feeder Length and Customer Count *7*

Size Used in the MSS *9*

Application of the minimum sized conductor to the appropriate length *9*

Minimum level of load-carrying capacity is appropriate under a minimum sized system *10*

Section 4: **Poles Sub-Functionalization** **12**

Secondary customers do not pay twice when combination poles are allocated between primary and secondary. *12*

Section 5: **Review of Cost Allocation Methods** **13**

Review of Cost Allocation Methods *13*

Section 6: **Pole Attachment Rate** **15**

Net Pole Investment and Depreciation Expense *15*

Shared Usage Allocation Factor *16*

Inclusion of Forecasted Costs *16*

Calculations of Attachments per Pole *17*

SECTION 1:

INTRODUCTION AND PURPOSE

My name is Bickey Rimal, and I am an Assistant Vice President with Concentric Energy Advisors, Inc. ("Concentric"). I provided evidence related to class cost of service, pricing and rate design matters in the 2022 General Rate Application ("GRA") submitted by Nova Scotia Power Incorporated ("NS Power" or the "Company").

This rebuttal testimony responds to the following evidence filed by Intervenors and consultants for Counsel to the Nova Scotia Utility and Review Board ("NSUARB" or the "Board"):

a. Dr. Karl Richard Pavlovic, PCMG and Associates ("PCMG"), on behalf of NSUARB Counsel;

b. Resource Insight, Inc. on behalf of the Nova Scotia Consumer Advocate ("CA"); and

c. Mr. Andrew Briggs, AGBriggs Consulting Inc., on behalf of Bragg Communications, Inc., et. al.

Specifically, I respond to the above noted Evidence regarding the following issues: a) claims that the Minimum System Method has no theoretical, practical, or empirical basis; b) alleged flaws in the Minimum System Study ("MSS"); c) critiques regarding the pole sub-functionalization study, specifically the treatment of combination poles; d) recommendation to review cost allocation methods; and, e) alleged flaws in the methodology used to calculate the Pole Attachment Rate.

SECTION 2:

THEORY UNDERPINNING THE MINIMUM SYSTEM STUDY

Dr. Pavlovic claims that the Minimum Size Method has no theoretical, practical or empirical basis to classify a portion of the distribution system cost as customer-related.[1] This position is at direct odds with the fact that this method is one of the two most widely used methods by utilities to classify costs, and is endorsed by the National Association of Regulatory Utility Commissioners ("NARUC") as an acceptable industry practice. As discussed below, Concentric found that a significant majority of electric utilities in each of the Canadian provinces classify distribution assets between customer and demand and majority of them use the MSS. It is important to understand the purpose of the MSS and distinguish it from other classification methods.

Description of the MSS

Distribution system costs are incurred to move electricity from generation and transmission facilities to individual customers that are distributed geographically throughout the service territory of a utility. A significant portion of those costs are incurred regardless of the peak demand of the customers. Increases or decreases in demand do not result in proportionate increases or decreases in the number of poles and kilometers of conductors required to distribute electricity geographically. For example, if the load of customers in Nova Scotia was significantly reduced, but the number of customers was unchanged, we would not expect the number of poles and kilometers of wires in the Province to reduce by the same proportion. As a result, and as discussed in my Cost of Service evidence filed as Appendix 11A to the GRA, the costs associated with a distribution system are related to both the peak amount of load that the system is designed to deliver and the number of customers it is designed to serve. As a result, it is appropriate to allocate a portion of the distribution system costs on a demand-related basis and a portion on a customer-related basis. The Electric Utility Cost Allocation Manual published by NARUC ("NARUC Manual") dedicates an entire chapter on classification and allocation of distribution plant.[2] As a part of that chapter, the NARUC Manual identifies two methods used to determine the demand-related and customer-related components of the distribution system. The two methods are the "Minimum Size Method" and the "Minimum-Intercept Method".

Concentric conducted a MSS using the Minimum Size Method to classify a portion of poles and conductors as demand-related and customer-related. The MSS essentially compares the cost of a hypothetical minimum system (i.e., a system sized to simply connect customers) to the total cost of

[1] Evidence of Pavlovic, at 2.

[2] NARUC, Electric Utility Cost Allocation Manual, Chapter 6, at 83-99 (1992).



the system. The minimum system cost represents the customer-related costs, whereas the total costs less the minimum system costs represent the demand-related costs.

Zero Intercept Study

The Minimum-Intercept Method, also referred to as the "zero-load" or "zero-intercept" method, seeks to identify the portion of the distribution plant that is associated with a hypothetical no-load situation. This method uses regression analysis to establish a relationship between the installed cost of an asset and current carrying capacity or demand ratings of that asset. The resulting relationship will be of the form:

Unit Installed Cost = Intercept + Coefficient * Load Carrying Capacity

The intercept resulting from the regression analysis represents the cost of a hypothetical asset that has no load-carrying capacity. The cost associated with the zero-intercept represents the customer component for that particular distribution account (poles, conductors, etc.). It is important to note the no load-carrying capacity requirement is relevant only for the Minimum-Intercept Method and not for the Minimum Size Method. The NARUC Manual acknowledges that the Minimum-Intercept Method requires significantly more data and calculations and can produce statistically unreliable and counterintuitive results. For example, since the zero intercept is estimated using regression analysis, the intercept could be a negative number and imply that the customer component is negative. In addition, if the regression analyses do not produce statistically significant relationships, then the results will be invalid and may not be useful. As a result, there can be significant controversy around the validity and accuracy of the Zero-Intercept Study. These shortcomings are acknowledged in Dr. Pavlovic's evidence. [3]

Minimum Size Selection

The NARUC Manual has specific guidance regarding the methodology to conduct a MSS for specific distribution accounts (poles, overhead conductors, and underground conductors).[4] There is specific guidance regarding the selection of a minimum-sized asset. For poles, it is the "minimum height pole currently being installed". Similarly, for overhead conductors, it is the "minimum size conductor currently being installed," and for underground conductors, it is the "minimum size cable currently being installed."

[3] Evidence of Pavlovic, at 6.

[4] NARUC, Electric Utility Cost Allocation Manual, at 91-92 (1992).



Prevalence in the Industry

Utilities throughout Canada and United States routinely use the MSS or the Zero-Intercept Study to classify a portion of the distribution assets as customer-related and demand-related. As described above, the costs associated with a distribution system are related to both the peak amount of load that the system is designed to deliver and the number of customers it is designed to serve. Concentric examined the classification methods of the major electric utilities in each of the Canadian provinces and found that the significant majority of them classify distribution assets between customer and demand as set out in Figure 1. Concentric also found that other than NS Power, half of the utilities examined use a MSS to determine the customer and demand portion of distribution assets.

Figure 1: Canada Results Summary

Utility	MSS Used?	Poles, Towers and Fixtures	Conductors	Line Transformers
Nova Scotia Power (Current)		PRI: 27% Customer, 73% Demand; SEC: 50% Customer, 50% Demand	PRI Overhead/Underground: 27% Customer, 73% Demand; SEC Overhead/Underground: 50% Customer, 50% Demand	100% Demand
Nova Scotia Power (Proposed)	Yes	PRI: 76% Customer, 24% Demand; SEC: 70% Customer, 30% Demand	PRI Overhead: 38% Customer, 62% Demand; SEC Overhead: 83% Customer, 17% Demand; PRI Underground: 17% Customer, 83% Demand; SEC Underground: 82% Customer, 18% Demand	100% Demand
ATCO Electric	Yes	55% Customer, 45% Demand	Overhead: 70% Customer, 30% Demand; Underground: 70% Customer, 30% Demand	55% Customer (Non-Rural); 60% Customer (Rural); (50% Rural Allocated)
BC Hydro	No	50% Customer, 50% Demand	50% Customer, 50% Demand	50% Customer, 50% Demand
Fortis BC Energy	Yes	81% Customer, 19% Demand	65% Customer, 35% Demand	69% Customer, 31% Demand
Maritime Electric	No	50% Site (Customer), 50% Demand	50% Site, 50% Demand	40% Site; 60% Demand



New Brunswick Power	No	50% Customer, 50% Demand	50% Customer, 50% Demand	25% Customer, 75% Demand
Newfoundland Power	Yes	37% Customer, 63% Demand,	37% Customer, 63% Demand	28% Customer, 72% Demand
Ontario	No	60% Customer if Density is < 30 customers per kM of lines, 40% Customer if Density between 30 and 60 customers per kM of lines, 35% Customer if Density between > 60 customers per kM of lines, or 30% Customer if Density is between > 60 customers per kM of lines		
SaskPower	Yes	70% Customer, 30% Demand	70% Customer, 30% Demand	35% Customer, 65% Demand

PRIOR COSS

The Board has approved the prior Cost of Service Study (COSS), which classified distribution cost as both demand and customer-related. Figure 1 above shows the customer and demand classification utilized in prior COSS by NS Power. The classification of distribution assets between customer and demand is the established practice in Nova Scotia.

SECTION 3:

RESPONSE TO INTERVENOR EVIDENCE REGARDING THE MINIMUM SYSTEM

Minimum System Costs are Customer-related

Dr. Pavlovic's cites Professor Bonbright's book *Principles of Public Utility Rates* as a basis for his criticism of the use of the Minimum System Method to classify a portion of the distribution system cost as customer-related. Citing Professor Bonbright, Dr. Pavlovic states:

> *Bonbright refers to the minimum size system methods as assuming "hypothetical" and "phantom" distribution systems that rest on the erroneous assumption that "since [the minimum system costs] vary directly with the area of the distribution system (or else with the lengths of the lines, depending on the type of distribution system), they therefore vary directly with the number of customers," which "makes no allowance for the density factor (customers per linear mile or square mile).* [5]

Dr. Pavlovic fails to provide the full context of the discussion by Professor Bonbright by omitting the succeeding paragraph where his preference of the inclusion of minimum system costs as customer-related versus demand-related is discussed. In the succeeding paragraph to the one referenced by Dr. Pavlovic, Professor Bonbright states:

> *. . .[T]he inclusion of the costs of a minimum-sized distribution system among customer-related costs seem to me clearly indefensible, its exclusion from the demand-related costs stands on much firmer ground.*[6]

The above quote suggests that given the choice between including the minimum-sized distribution costs as customer-related versus demand-related, Professor Bonbright's preference would be to classify it as customer-related, as was done in the Company's application. Between the two options, he indicates that treating minimum-sized distribution costs as customer-related costs is a better option than including them as demand-related costs.

Relationship to Customer Additions

Dr. Pavlovic states that "the Company's distribution poles and wires costs do not vary with the number of customers – additions and deletions of customers do not cause those costs to increase or decrease" and proceeds to conclude that the Company's distribution system should be classified as

5 Evidence of Pavlovic, at 9.

6 Bonbright, James C., Principles of Public Utility Rates, Columbia University Press (1988), page 491-492.



100% demand-related.[7] This assertion, however, fails to recognize the fact that a portion of the distribution system that already existed, before an additional customer is added, is required to serve the minimum requirements of the customers and their geographic dispersion. The whole point of conducting a MSS is to calculate the portion of the distribution system that does not vary with demand. A portion of the distribution costs is incurred regardless of the peak demand of the customers. As discussed earlier, increases or decreases in demand do not result in proportionate increases or decreases in the number of poles and kilometers of conductors required to distribute electricity geographically. The reason we classify a portion of the distribution system costs as customer-related is that the distribution system exists to deliver electricity to hundreds of thousands of customers who are widely dispersed throughout the service territory of the Company. A significant portion of those costs is totally unrelated to the peak demand and, thus, should not be allocated based on demand.

Relationship between Feeder Length and Customer Count

The Resource Insight evidence, filed on behalf of the CA, conducts regression analysis using length as a dependent variable and customer count as an independent variable and concludes that there is no relationship between the number of customers and the length of the feeder.[8] The regression analysis showing the relationship between customer count and feeder length is not appropriate because it does not account for the location of the feeder (i.e., whether the feeder is rural, sub-urban or urban), or that the number of customers served by each feeder is dependent on where the feeder is located. Figure 2 below indicates that more customers are served by smaller feeders in urban locations as compared to sub-urban and rural locations.

7 Evidence of Pavlovic, at 10.

8 Evidence of CA, at 58.

Figure 2: Relationship between Feeder Length and Customers by Geography

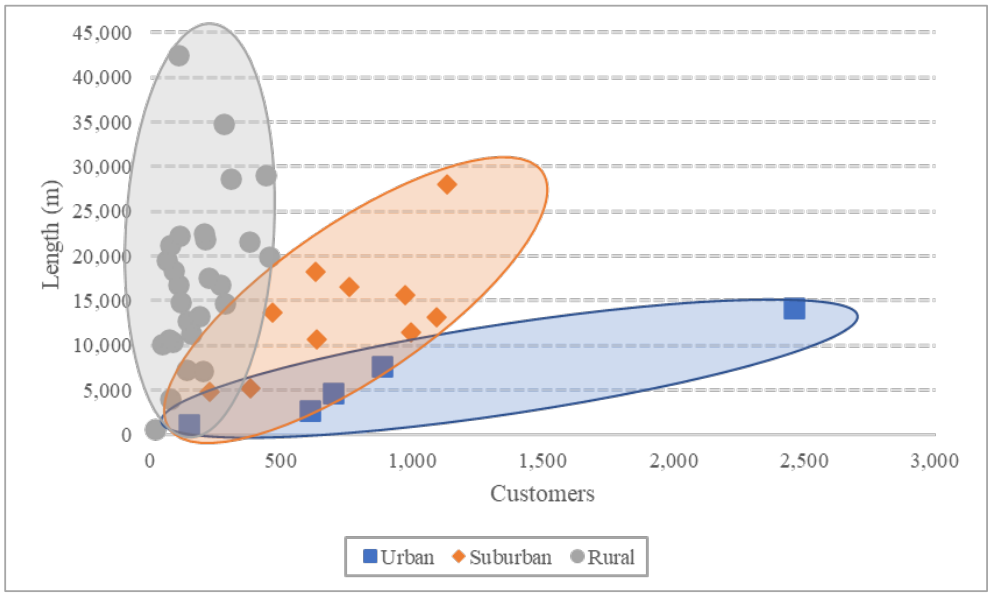


Figure 2 illustrates that geographic dispersion of the customers and where they are located and not their peak demand drives the length of the feeder. As stated previously, if given the choice between including the minimum-sized distribution costs as customer-related or demand-related, Professor Bonbright's preference would be to classify the minimum-sized costs as customer-related, as was done in this case.

The Ontario Energy Board ("OEB") has explicitly recognized that the customer component of distribution assets are directly linked to customer density. The OEB uses specific values for customer component of poles, conductors, and line transformers based on the density of the utility. The customer component is:

- 60% if Density is < 30 customers per kM of lines,
- 40% if Density between 30 and 60 customers per kM of lines,
- 35% if Density between > 60 customers per kM of lines, or
- 30% if Density is Between > 60 customers per kM of lines.

Since NS Power has relatively low customer density and if NS Power were to use these OEB guidelines, 60% of poles, conductors, and line transformers would be classified as being customer-related.

Size Used in the MSS

The Resource Insight evidence claims that the MSS uses an incorrect minimum-sized pole and further claims that the Company did not provide any basis for its choice of minimum poles. [9] Similarly, Resource Insight's evidence claims that the MSS uses incorrect minimum-sized conductors and that the study does not explain how the size and type of the minimum conductors were selected. [10] As mentioned above, the NARUC Manual provides specific guidance regarding the selection of the minimum-sized assets. Across all asset types, the minimum-sized asset used in the analysis should be the minimum-sized asset currently being installed. The hypothetical minimum system was constructed using the minimum-sized assets currently being installed by NS Power based on the information provided by engineering personnel at the Company. For example, minimum sized poles used in the analysis were based on the "minimum height pole currently being installed" in accordance with the NARUC Manual. [11]

The Resource Insight evidence calculates the impact of using conductors it perceives to be the appropriate minimum sized conductor[12] and presents the results in Table 8 of its evidence. [13] As stated previously, the minimum size conductor used in the MSS is based on the guidance provided by the NARUC Manual and as a result, the alternate calculations labelled "Corrected" and presented in Table 8 by Resource Insight is not correct. In addition, for primary overhead conductors, Resource Insight is using just one span of a conductor as a minimum size instead of two conductors (one conductor and one neutral) to complete the circuit.

Application of the minimum sized conductor to the appropriate length

The assertion in the Resource Insight evidence that "Concentric applied the cost of a multiple-conductor line such as triplex to the sum of the lengths of all the conductors and neutrals, it overstated the minimum conductor cost" is factually incorrect.[14] Concentric has applied the minimum-sized conductor to the appropriate length (i.e., circuit length), so the calculations are accurate.[15] The costing is based on the total span length; however, the cost associated with the minimum system is based on the circuit length and the application is correct.

---

9 Evidence of CA, at 60-61.
10 Evidence of CA, at 61.
11 NARUC, Electric Utility Cost Allocation Manual, at 91 (1992).
12 Evidence of CA, Table 7, at 61.
13 Evidence of CA, at 62-63.
14 Evidence of CA, at 62.
15 NS Power response to Synapse IR-032, Attachment 2, "min_sys_cond" and "Conductor Circuit Length" tabs.



Minimum level of load-carrying capacity is appropriate under a minimum sized system

The Resource Insight evidence claims that if the minimum size used in the MSS has some load-carrying capacity, that capacity should be credited to the classes that pay for it, reducing their demand to reflect the capacity that requires equipment above the minimum system level.[16] It is important to note that this is not a Zero-Intercept Study, and that a minimum level of load-carrying capacity is acceptable under a Minimum System. Study. Even though the minimum sized system has some load carrying capacity, virtually all customers impose some lowest common denominator amount of minimum load on the system, and so the minimum system costs should be treated as providing equal benefit to all customers on the relevant system.

Relevance of the NARUC Manual

The Resource Insight evidence, filed on behalf of the CA, attempts to discredit the NARUC Manual based on when it was last revised. [17] However, the NAURC Manual, although last revised in 1992, has withstood the test of time and is continually relied upon by regulators, utilities, and other relevant stakeholders for cost allocation purposes. For example, the Indiana Utility Regulatory Commission ("IURC") is currently in the process of updating its regulations associated with the Minimum Standard Filing Requirements to explicitly say *"For an electing energy utility, any cost of service study filed shall follow the guidelines established by the National Association of Regulatory Utility Commissioners (NARUC)."* This action by the IURC is a clear illustration that the NARUC Manual, in spite of when it was revised, is still very relevant and foundational for cost allocation.

In Nova Scotia, the Board has also relied on and referenced the NARUC Manual in prior decisions. For example, in its 2003 Rate Design Decision (P-878) the Board quoted the NARUC Manual to provide the breakdown of distribution costs between customer and demand.

> *The NARUC Electric Utility Cost Allocation Manual defines the following distribution plant as partly customer-related and partly demand-related:*
>
> *Land and Land Rights*
>
> *Structures and Improvements*
>
> *Poles, Towers and Fixtures*
>
> *Overhead Conductors and Devices*
>
> *Underground Conduit*
>
> *Underground Conductors and Devices*
>
> *Line Transformers*

[16] Evidence of CA, at 65.

[17] Evidence of CA, at 59.



NSPI uses the "minimum-size method" to classify the customer costs. This method of defining customer costs was approved by the Board in 1977 as an acceptable method of classifying distribution plant. [18]

Conclusions on Minimum System Study

With respect to issues raised regarding MSS:

- The cost associated with the Minimum System are customer-related and not demand-related;
- The feeder length and pole counts, which drives a significant portion of the costs of the distribution system, are driven by customer number and their geographic dispersion and not peak demand;
- The selection of minimum sized assets used in the MSS is appropriate and based on the NARUC Manual;
- The minimum sized conductors is applied to the circuit length appropriately in the MSS; and
- The NARUC Manual—specifically the classification of distribution assets between customer and demand—is still relevant and its use is standard industry practice.

[18] NSUARB Decision, (NSUARB-NSPI-P-878) at 42.

SECTION 4:

POLES SUB-FUNCTIONALIZATION

Secondary customers do not pay twice when combination poles are allocated between primary and secondary.

The Resource Insight evidence asserts that Concentric's treatment of combination poles (i.e., poles that contain facilities that carry both primary and secondary voltage) in the sub-functionalization study results in secondary customers paying twice for the same pole. [19] This assertion is factually incorrect. As mentioned in my Cost of Service Evidence filed as Appendix 11A to the GRA, for each feeder, Concentric allocated combination poles between secondary and primary voltage based on the ratio of unit costs of secondary and primary poles in that feeder.[20]

Concentric assumed that for each feeder, in the absence of combination poles, there would have to be the same number of primary-only and secondary-only poles. Using the average cost of secondary-only poles at that particular feeder, Concentric determined what the cost would be if all combination poles were replaced by secondary poles. Similarly, Concentric determined what the cost would be if all the combination poles were replaced by primary poles. The ratio of this calculated total cost, which is equivalent to the ratio of unit costs at that particular feeder, was then used as a basis to allocate the cost and counts of combination poles. Essentially, a portion of each combination pole is allocated to primary function and the remainder to secondary function; therefore, there is no double counting as claimed by Resource Insight.

The purpose of the sub-functionalization study is to ensure that customers not taking service at secondary voltage are not allocated costs of the secondary distribution system, since they do not use those assets. Since the vast majority of the NS Power customers are being served at secondary voltage level, the vast majority of the poles do not have primary customers attached to them. As a result, Concentric's approach to allocating combinations poles between primary and secondary ensures that the costs are allocated appropriately.

[19] Evidence of CA, at 55.

[20] 2022-2024 GRA Direct Evidence Appendix 11A, page 4 of 7.

SECTION 5:

REVIEW OF COST ALLOCATION METHODS

Review of Cost Allocation Methods

Resource Insight requests a review of NS Power's cost allocation methods through a new collaborative process. Resource Insight reasons that a review of cost allocation methods is needed due to existing and future investments in carbon-free generation resources, increased reliance on purchased power agreements, battery storage, and investments intended to support electrification and distributed energy resources ("DER"). There are several reasons the Board should reject this proposal at this time.

- First, these issues are not new or are not immediate. The treatment of carbon-free generation, specifically wind generation, and the classification and allocation of cost associated with purchased power were addressed in the 2013 Cost of Service ("2013 COS") proceeding (Matter No. M05473). No evidence has been provided that new Cost of Service treatment is required. Integration of batteries, and other DER, on a widespread basis remains to be determined and does not require an immediate response. Based on the most recent Integrated Resource Plan, battery resources are expected to fill a small portion of the total generation mix in the near future. [21] When those resources become more immediate and it becomes clear that the current approach to cost allocation is inappropriate, then revisiting this issue may be appropriate.

- Second, Resource Insight implies, with no clear evidence, that the transition to more distributed resources will occur practically overnight and the Board will be left unprepared. Nothing in the evidence compels that interpretation. It is far more likely that the transition will occur in a manner that provides ample time to address any alleged deficiencies in traditional cost of service approaches. Other energy transitions support this conclusion. The transition to lower utilization of coal-fired assets, increased penetration of wind, and increased reliance on purchased power were addressed in 2013.

- Third, Resource Insight claims that any future proceeding "should include any other allocation issues that need to be updated to reflect emerging resources and improvements in data and analytic capabilities." This vague statement provides no concrete guidance and is likely to lead to controversy as to what is meant and how the concepts should be applied. There are many issues that the Board would need to consider beyond the simple fact that information technology is changing before deciding whether a new proceeding is necessary.

[21] Nova Scotia Power, *Powering a Green Nova Scotia, Together: 2020 Integrated Resource Plan,* published November 27, 2020.



- Fourth, Resource Insight does not provide any logic, evidence or argument regarding what allocation methodologies, if any, can and should be updated to reflect emerging resources and improvements in data and analytics capabilities. A hasty proceeding, in the end, might not provide any useful advice to the Board concerning cost allocation methodologies that the Board could not obtain through the normal course of its activities (i.e., GRA and FAM proceedings).
- Finally, Resource Insight suggests that any future study "should not be restricted to or primarily guided by precedent." Such blanket dismissal of precedents is neither logical nor helpful. The prior decisions of the Board are based on facts and argument from prior cases; it is unreasonable to dismiss precedents because the Board has no evidence before it to do so in this proceeding. If, in a future proceeding, the Board determines, based on the argument and evidence in that proceeding, that changes are warranted it may make those decisions based on the evidence on record, if sufficiently compelling. In addition, abandoning precedents could, and likely would, cause instability in the allocation of costs and rate design, and perhaps even rate shock to some customers.[22]

For these reasons Resource Insight's recommendation is not supported and, at a minimum, premature. It should be rejected by the Board.

[22] "Stability of the rates themselves, with a minimum of unexpected changes seriously adverse to existing customers" is one of the foundational criteria of a sound rate structure established. Bonbright, James C, Principles of Public Utility Rates, 1961, page 291.

SECTION 6:

POLE ATTACHMENT RATE

Net Pole Investment and Depreciation Expense

Mr. Briggs's evidence disagrees with the derivation of the net pole investment included in the Company's calculation of the pole attachment fee proposed in the application.[23] Citing a change in methodology from the 2001 proceeding, he disagrees with the inclusion of certain Distribution Plant and General Plant in the calculation of net pole costs. The net pole investment costs only include a portion of the cost associated with specific Distribution Plant accounts. [24]

It is important to note that the Milton Hydro application, which formed the basis of the 1999 Canadian Radio-television and Telecommunications Commission ("CRTC") decision that was relied on by the Board in 2001, did in fact include certain non-pole assets in calculation of the net pole costs. The CRTC in its Decision 99-13, relied on the methodology developed by Milton Hydro to determine the net embedded pole cost and depreciation expense.[25] Milton Hydro's calculation of net pole investment includes a portion of General Plant and working capital.[26] Hence, the inclusion of certain related plant in addition to the pole account in the calculation of net pole value is not a change in the methodology that was considered by the Board.

It is reasonable for pole investment calculations to include other pole-related items in addition to what is booked directly to the Pole Plant account only. Specifically, it is reasonable to allocate a portion of distribution assets and general plant to the pole-related rate base and depreciation expenses used in calculation of pole rates. The net pole investment calculated by the Company is based on the allocated pole cost and considers the potential cross-subsidization between the customers of the third-party attachers and the Company's electric customers. Based on economic efficiency there is a range of costs that can be considered a "subsidy-free" range. The lower bound or the minimum cost of this range is the incremental cost the attacher imposes on the system. If the price covers the incremental cost, then there is no subsidy being provided to the third-party attachers by the Company. At the other end, the higher bound or the maximum cost is equal to the total avoided cost of the third party attachers. This is essentially the cost a third-party attacher would have to incur to build and own its own network of poles. As long as the price is below this maximum cost, there is

[23] Briggs Evidence, at 7.

[24] 0100 Land Distribution Plant, 0200 Land Rights Distribution Plant (60%), 0300 Bldg Struct Grnd Dist Plant. Please note the Company has addressed the inappropriate inclusion of account 5200 as part of Appendix F to the Rebutal.

[25] Telecom Decision CRTC 99-13, paragraph 207.

[26] Milton Hydro Study from CRTC 99-13.



no subsidy being provided to the Company by the third-party attachers. As a result, any price within this range can be considered economically efficient.

It is important to consider what costs the third-party attachers are avoiding by utilizing the Company poles and how those benefits should be shared between the shareholders of the third-party attachers and the Company's electric customers. Even though the net pole investment calculated by the Company that is attributable to third-party attachers is slightly higher than what it would have been if the calculation just focused on the net book value of the pole account, it is significantly lower than what it would cost the third-party attachers to actually install and own the pole. Since the net pole investment calculated by the Company is within the subsidy-free range, the benefits are being shared between the shareholders of third-party attachers and the customers of NS Power.

In his evidence, Mr. Briggs also disagrees with the inclusion of insulator investment in the calculation of net pole investment cost.[27] However, he fails to recognize that the shared usage allocation ratio (75%) used to allocate the net pole investment to shared usage between power and non-power attachers explicitly excludes the cost associated with insulators. Therefore, even though the cost of insulators is included in the initial net pole investment calculation, the final net pole investment used to determine the pole attachment fees excludes those costs.

Shared Usage Allocation Factor

Mr. Briggs also disagrees with the 75% ratio used to allocate the net pole investment to shared usage between power and non-power attachers. [28] The development of the 75% allocation factor is presented in Schedule 5 of PR-02 Attachment 5. The 75% allocation factor used in the pole attachment fee calculation is reasonable since the cost information is used primarily to inform cost relationships between various components of the pole (i.e., bare pole, cross arms, insulators, guys, anchors, and clamps). In fact, the 75% allocation factor used in the fee calculation may be a more conservative estimate because not every electric pole will have all these components excluded from the factor. For example, not every single pole may have a cross arm. As a result, the 75% allocation factor used in the analysis is reasonable and justified.

Inclusion of Forecasted Costs

Mr. Briggs disputes the use of forecasted costs in the derivation of net book value and depreciation expense associated with poles. [29] It is appropriate to use both capital and O&M forecasted costs in calculating the pole attachment rate since the revenue requirement in the GRA is based on forecasted rate years. The prudency of those costs will be reviewed as a part of the GRA, and the resulting rates

[27] AGBriggs Consulting Report, at 7.
[28] AGBriggs Consulting Report, at 14-15.
[29] AGBriggs Consulting Report, at 5.



will match the associated costs for the time period in question. Briggs also raises the issue of data mismatch with the use of forecasted net book value and depreciation expense while using the historical pole count. Briggs suggests that since the annual capital additions over the forecast period exceeds the forecasted depreciation expense, the forecasted count of poles will be larger than the historical count. [30] This suggests that when annual capital additions exceed annual depreciation expense then the capital addition is related to growth. However, a significant portion of the capital addition is also related to replacement of assets. In fact, a significant portion of the capital additions associated with the pole investment in the forecast period is associated with replacement and upgrade of the existing pole assets and not with addition of new pole assets.

Calculations of Attachments per Pole

In his evidence, Mr. Briggs disputes the use of the pole attachment ratio of 1.31 used by the Company in the pole attachment fee calculations. [31] The Company has calculated the pole attachment ratio by dividing the total number of attachments subject to pole attachment fees plus attachments under the NS Power/Bell Aliant Joint Use Agreement, by the total number of NS Power-owned mainline poles.

Briggs disputes the use of all poles instead of only the poles with an attachment as the denominator while calculating the pole attachment ratio. Since all the mainline poles are available to third party attachers, it is appropriate to use the count of all poles in the denominator. Since all the poles represent the amount of total usable capacity available to third party attachers, the calculation should include all poles and not be limited to poles with attachments only. This same issue has been addressed by the New Brunswick Energy and Utilities Board (NBEUB) in its 2015 Decision (Matter No. 272). The NBEUB stated:

> *NB Power's network of joint-use poles, together with those of Bell Aliant, are available as a service to current and potential third party attachers. Limiting the NB Power network, for rate calculation purposes, to poles to which there are actual third party attachments, would be inconsistent with these principles. . . . NB Power invests in taller poles and incurs additional costs in maintaining a network of joint-use poles. This reduces the potential for the proliferation of single use poles and economic inefficiency. Joint-use poles are available for attachment by third parties, subject to the payment of approved rates. It is reasonable that the rate methodology incorporates the incremental costs of maintaining an available network of joint-use poles. For these reasons, the Board accepts the average of 2.4 attachers per pole (1.4 communication attachers) for the purposes of the pole attachment rate calculation.*[32]

[30] AGBriggs Consulting Report, at 6.

[31] AGBriggs Consulting Report, at 29.

[32] NBEUB 2015 Decision (Matter No. 272), pages 13-14.

NON-CONFIDENTIAL

Request DR-62:

If NS Power's minimum system method study model relies upon on a survey of selected representative feeder sections to gather information regarding poles, conductors, and other relevant materials contained within each of those feeders by voltage level (i.e., primary and secondary), please provide the following information:

(a) A list of the selected feeder sections including general characterization of the feeder (e.g., rural/suburban/urban, residential/mixed/commercial/industrial), and a map.

(b) For each section surveyed, please provide:

- **(i) Replacement cost information for each item contained in that section, by voltage level**
- **(ii) Number of phases**
- **(iii) For each underground conductor, whether it is in conduit or direct-buried**
- **(iv) List of equipment on each pole, including non-utility equipment (e.g., communication equipment)**
- **(v) List of poles with communication attachments**
- **(vi) List of the poles with unused space reserved for communication attachments**
- **(vii) Height and grade of each pole without secondary conductor**
- **(viii) Height and grade of each pole with secondary conductor, but no primary conductor**
- **(ix) Height and grade of each pole with both secondary and primary conductor**

(c) For each pole with both secondary and primary conductor, please provide:

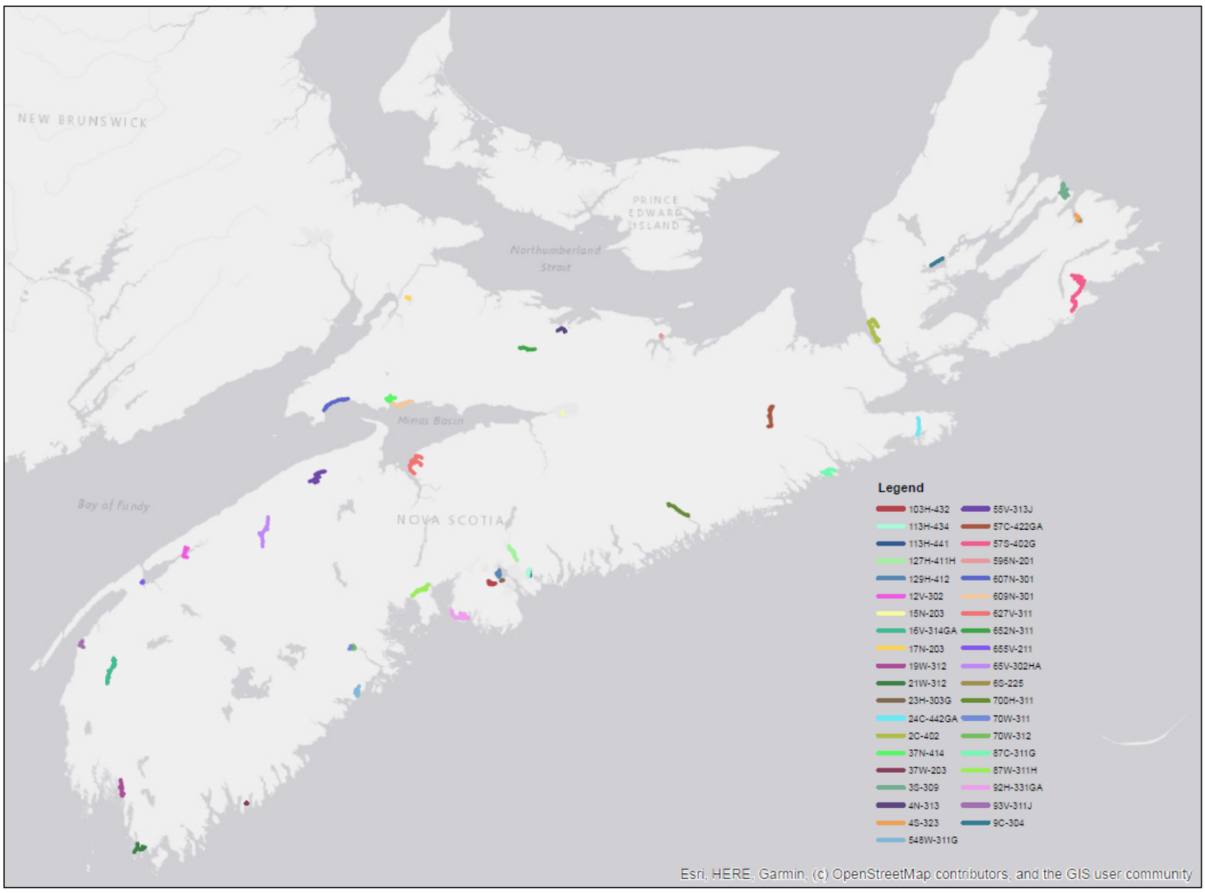
- **(x) Reduction in height, grade and cost for the pole, in that location, if the secondary conductor had never been installed**
- **(xi) Reduction in height, grade and cost for the pole, in that location, if the primary conductor had never been installed**

(d) For each primary-only pole in the survey, please explain whether it is the minimum primary pole, and if not, why it is taller or of higher grade than the minimum pole.

Response DR-62:

(a) Figure 1 below represents the feeder sections and the map.

Figure 1



(b) Figure 2 provides a list of the selected feeder sections including general characterization of the feeder (e.g., rural/suburban/urban, residential/mixed/commercial/industrial)

Figure 2

			Primary Conductor Configuration (Count)				
Classification	Feeder Section		Total	1 Phase	2 Phase	3 Phase	None
Urban	23H-303G	Count	91	38	0	34	19
		% of Count	100	42	0	37	21
Rural	37W-203	Count	21	5	0	9	7
		% of Count	100	24	0	43	33
Urban	596N-201	Count	63	32	0	0	31
		% of Count	100	51	0	0	49
Suburban	113H-434	Count	335	147	0	146	42
		% of Count	100	44	0	44	13
Urban	15N-202	Count	236	38	0	134	64
		% of Count	100	16	0	57	27
Suburban	113H-441	Count	346	190	0	123	33
		% of Count	100	55	0	36	10
Suburban	4S-323	Count	591.79	65.0459	0	323.954	202.8
		% of Count	100	11	0	55	34
Urban	129H-412	Count	422	191	0	171	60
		% of Count	100	45	0	41	14
Rural	604-311G	Count	358	151	0	145	62
		% of Count	100	42	0	41	17
Suburban	3S-309	Count	1008	364	0	243	401
		% of Count	100	36	0	24	40
Suburban	655V-211	Count	203	41	20	75	67
		% of Count	100	20	10	37	33
Urban	6S-225	Count	325	108	7	97	113
		% of Count	100	33	2	30	35
Suburban	70W-312	Count	432	218	0	113	101
		% of Count	100	50	0	26	23
Rural	19W-312	Count	410	156	0	148	106
		% of Count	100	38	0	36	26
Rural	2C-402	Count	731	294	0	295	142
		% of Count	100	40	0	40	19
Rural	57S-402G	Count	759	665	0	0	94
		% of Count	100	88	0	0	12
Rural	627V-311	Count	696	503	0	3	190

NON-CONFIDENTIAL

			Primary Conductor Configuration (Count)				
Classification	Feeder Section		Total	1 Phase	2 Phase	3 Phase	None
		% of Count	100	72	0	0	27
Rural	16V-314GA	Count	**433**	**377**	**0**	**0**	**56**
		% of Count	100	87	0	0	13
Suburban	17N-203	Count	**176**	**22**	**0**	**109**	**45**
		% of Count	100	13	0	62	26
Rural	700H-311	Count	**281**	**239**	**0**	**0**	**41.57**
		% of Count	100	85	0	0	15
Rural	92H-331GA	Count	**848**	**87.901**	**149.05**	**342.05**	**269.4**
		% of Count	100	10	18	40	32
Suburban	15N-403	Count	**379**	**97**	**0**	**179**	**102.6**
		% of Count	100	26	0	47	27
Suburban	103H-432	Count	**468**	**134**	**0**	**218**	**116.2**
		% of Count	100	29	0	46	25
Suburban	127H-411H	Count	**673**	**313**	**11**	**106**	**241.6**
		% of Count	100	47	2	16	36
Rural	65V-302HA	Count	**386**	**336**	**0**	**0**	**49.59**
		% of Count	100	87	0	0	13
Rural	12V-302	Count	**392**	**87**	**0**	**198**	**107**
		% of Count	100	22	0	51	27
Rural	548W-311G	Count	**281**	**206**	**0**	**0**	**75.03**
		% of Count	100	73	0	0	27
Rural	87C-311G	Count	**386**	**30**	**0**	**191**	**164.8**
		% of Count	100	8	0	50	43
Rural	93V-311J	Count	**212**	**85**	**0**	**64**	**63**
		% of Count	100	40	0	30	30
Rural	9C-304	Count	**275**	**169**	**0**	**13**	**93**
		% of Count	100	61	0	5	34
Rural	24C-442GA	Count	**191**	**11**	**0**	**150**	**30**
		% of Count	10	6	0	79	16
Rural	609N-301	Count	**506**	**380**	**0**	**0**	**126**
		% of Count	100	75	0	0	25
Rural	57C-422GA	Count	**381**	**116**	**187**	**0**	**78**
		% of Count	100	30	49	0	20

1

			Primary Conductor Configuration (Count)				
Classification	Feeder Section		Total	1 Phase	2 Phase	3 Phase	None
Rural	652N-311	Count	208	176	0	0	32
		% of Count	100	85	0	0	15
Rural	55V-313J	Count	554	203	1	234	115
		% of Count	100	37	0	42	21
Rural	104S-31G	Count	318	247	0	0	71
		% of Count	100	78	0	0	22
Rural	4N-313	Count	231	55	3	102	71
		% of Count	100	24	1	44	31
Rural	70W-311	Count	121	24	0	67	30
		% of Count	100	20	0	55	25
Rural	37N-414	Count	570	230	0	168	172
		% of Count	100	40	0	29	30
Rural	87W-311H	Count	636	222	0	228	186
		% of Count	100	35	0	36	29
Rural	21W-312	Count	421	74	0	185	162
		% of Count	100	18	0	44	39
Rural	607N-301	Count	430	53	0	328	49
		% of Count	100	12	0	76	11

(i) NS Power did not collect this information as part of this survey.

(ii) Please refer to Figure 2 above for the data related to the Phases in each Feeder Section.

(iii) The underground conductor is in conduit.

(iv) NS Power did not collect this information as part of this survey.

(v) NS Power did not collect this information as part of this survey.

(vi) NS Power did not collect this information as part of this survey.

(vii) The Height and class of each pole with primary conductor only is contained in Figure 3 below:

Figure 3

Pole Type/Class/Height	Count
CCA 1 75'	2
CCA 2 45'	2
Penta 2 45'	8
CCA 2 50'	3
Penta 2 50'	8
Creosote 2 50'	2
Cedar 2 50'	2
Penta 2 55'	4
CCA 2 60'	1
Penta 2 60'	1
Penta 2 70'	1
Creosote 3 20'	1
Penta 3 35'	5
CCA 3 40'	2
Penta 3 40'	31
CCA 3 45'	16
Penta 3 45'	629
Creosote 3 45'	12
Cedar 3 45'	2
Penta 3 50'	18
CCA 3 50'	1
Penta 3 55'	4
Penta 4 30'	1
Penta 4 35'	64
Penta 4 40'	2339
CCA 4 40'	41
Creosote 4 40'	25
Cedar 4 40'	13
CCA 4 45'	1
Penta 4 45'	38
Creosote 4 45'	1
Penta 4 50'	9

(viii) The height and class of each pole with only secondary conductor is represented in Figure 4 below.

Figure 4

Pole Type/Class/Height	Count
CCA 1 40'	1
Cedar 2 55'	2
Penta 3 35'	24
CCA 3 35'	1
Penta 3 40'	5
CCA 3 45'	2
Penta 3 45'	20
Cedar 3 45'	2
Penta 4 30'	113
CCA 4 30'	3
Cedar 4 30'	4
Penta 4 35'	1632
CCA 4 35'	92
Creosote 4 35'	12
Cedar 4 35'	21
Penta 4 40'	92
CCA 4 40'	10
Creosote 4 40'	5
Cedar 4 40'	3
Penta 4 45'	9
Penta 5 20'	1
Penta 5 25'	1
Penta 5 30'	192
Penta 5 35'	897
CCA 5 35'	6
Creosote 5 35'	5
Cedar 5 35'	16
Penta 5 40'	3

(ix) The height and class of each pole with both secondary and primary conductor is represented in Figure 5 table below.

Figure 5

Pole Type/Class/Height	Count
CCA 2 45'	2
Penta 2 45'	13
CCA 2 50'	9
Penta 2 50'	59
CCA 2 55'	3
Penta 2 55'	6
Creosote 2 55'	2
Penta 3 35'	3
CCA 3 40'	1
Penta 3 40'	95
Creosote 3 40'	2
Cedar 3 40'	12
CCA 3 45'	38
Penta 3 45'	1664
Creosote 3 45'	93
Cedar 3 45'	2
Penta 3 50'	56
Creosote 3 50'	9
Penta 3 55'	11
Penta 3 60'	2
Penta 4 30'	29
Penta 4 35'	61
CCA 4 35'	2
Penta 4 40'	3357
CCA 4 40'	117
Creosote 4 40'	71
Cedar 4 40'	11
CCA 4 45'	6
Penta 4 45'	158
Creosote 4 45'	4
Penta 4 50'	21
Penta 5 35'	4

(c)

(x) NS Power anticipates that most of the existing secondary-only poles would need some type of upgrading, particularly ones that are smaller than the minimum sized primary pole.

(xi) NS Power is unable to determine how may combination poles would be shorter because pole height is driven by a number of factors including but not limited to sag, clearance and safety requirement, and joint use separation.

(d) Where feasible and based on engineering standards, 40 foot poles are used to carry equipment at primary voltage. There are often exceptions depending on terrain and communications clearances. The pole height depends on the actual physical geography and weather of the area as well as safety and reliability considerations.

NON-CONFIDENTIAL

Request DR-63:

If NS Power's minimum system method study model calculates the cost of primary poles by multiplying the total count of primary poles by the minimum sized primary pole, please provide the following information:

(a) If all customers were served at primary,

(i) How many existing secondary-only poles would need to be upgraded?

(ii) How many combination poles could be shorter, and by how much?

(b) Please explain how NS Power treated non-conductor-bearing stub poles in the minimum primary system.

(c) If NS Power had built an all-primary low-demand system with only the minimum primary pole, would it be able to accommodate:

(iii) Road crossings?

(iv) Installation on sloped sites?

(v) Minimum clearance requirements over structures?

(vi) Placement of communication lines?

Response DR-63:

(a)

(i) NS Power anticipates that most of the existing secondary-only poles would need some type of upgrading, particularly ones that are smaller than the minimum sized primary poles.

(ii) NS Power is unable to determine how may combination poles would be shorter because pole height is driven by a number of factors including but not limited to sag, clearance and safety requirement, and joint use separation.

(b) The stub poles were not part of the minimum primary system analysis.

(c) With respect to parts (iii) through (vi), the pole height depends on the actual physical geography and weather of the area as well as safety and reliability considerations.

NON-CONFIDENTIAL

Request DR-64:

If NS Power's minimum system method study model calculates the minimum system cost of primary overhead conductor by multiplying the circuit length of primary overhead conductors by the minimum sized primary overhead conductor, please provide the following information:

(a) The length of primary lines that are 1ϕ, 2ϕ, and 3ϕ, separately.

(b) The length of feeder sections that share poles with one or more other feeders.

Response DR-64:

(a) As per industry standards, the minimum system analysis relies on system circuit length. The circuit length was derived directly from GIS and as such, the length of primary lines that are 1ϕ, 2ϕ, and 3ϕ, separately was not required or captured for the study and is not available.

(b) The information requested is not tracked in GIS currently and therefore cannot be provided.

Request DR-65:

If NS Power's minimum system method study model relies on an assumption that relates customer count to feeder length, please provide supporting data. For example, please provide the customer count for each feeder, the feeder length, and a classification of the feeder type (urban/suburban/rural) and any other relevant data to the modeling method.

Response DR-65:

Please refer to the tables below:

Classification	Feeder Section	Circuit Length (Meters)	Customer Count
Urban	23H-303G	2747	607
Rural	37W-203	673	16
Urban	596N-201	1099	146
Suburban	113H-434	10679	635
Urban	15N-202	4718	698
Suburban	113H-441	11434	995
Suburban	4S-323	16522	758
Urban	129H-412	14227	2460
Rural	604-311G	16859	115
Suburban	3S-309	27959	1132
Suburban	655V-211	5137	383
Urban	6S-225	7641	884
Suburban	70W-312	15637	972
Rural	19W-312	17543	220
Rural	2C-402	34853	281
Rural	57S-402G	42421	106
Rural	627V-311	28621	306
Rural	16V-314GA	22230	109
Suburban	17N-203	4769	227
Rural	700H-311	14835	114
Rural	92H-331GA	29112	442
Suburban	15N-403	13680	468
Suburban	103H-432	13162	1093

NON-CONFIDENTIAL

Classification	Feeder Section	Circuit Length (Meters)	Customer Count
Suburban	127H-411H	18257	632
Rural	65V-302HA	19515	61
Rural	12V-302	14708	282
Rural	548W-311G	11358	157
Rural	87C-311G	13234	187
Rural	93V-311J	7250	136
Rural	9C-304	10665	71
Rural	24C-442GA	10156	42
Rural	609N-301	22550	205
Rural	57C-422GA	18408	90
Rural	652N-311	10362	83
Rural	55V-313J	21924	208
Rural	104S-31G	12754	141
Rural	4N-313	7184	200
Rural	70W-311	4019	76
Rural	37N-414	19902	455
Rural	87W-311H	21637	377
Rural	21W-312	16743	265
Rural	607N-301	21278	76

1

NON-CONFIDENTIAL

Classification	Feeder Section	Customer Count
Rural	700H-311	114
Rural	92H-331GA	442
Suburban	15N-403	468
Suburban	103H-432	1093
Suburban	127H-411H	632
Rural	65V-302HA	61
Rural	12V-302	282
Rural	548W-311G	157
Rural	87C-311G	187
Rural	93V-311J	136
Rural	9C-304	71
Rural	24C-442GA	42
Rural	609N-301	205
Rural	57C-422GA	90
Rural	652N-311	83
Rural	55V-313J	208
Rural	104S-31G	141
Rural	4N-313	200
Rural	70W-311	76
Rural	37N-414	455
Rural	87W-311H	377
Rural	21W-312	265
Rural	607N-301	76

NON-CONFIDENTIAL

Request DR-66:

Please provide the following data:

(a) Length of primary lines that are 1ϕ, 2ϕ, and 3ϕ, separately, that are used to calculate the minimum system cost of primary underground conductor.

(b) Length of secondary lines that are 1ϕ, 2ϕ, and 3ϕ, separately, that are used to calculate the minimum system cost of primary underground conductor.

(c) Length of underground conductor in service, by service (primary or secondary), whether in conduit or direct-buried, type (e.g., copper, ACSR) and size (i.e., gauge or diameter).

Response DR-66:

(a) Please refer to Attachment 1, which was provided in response to 2022/2023 GRA Synapse IR-32.

(b) Please refer to the sheet titled "Underground Conductors" in Attachment 1.

(c) The underground conductor is in conduit.

COSS CA DR-66 Attachment 1 has been filed electronically.

NON-CONFIDENTIAL

Request DR-67:

Please state the amount of demand per customer that could be accommodated by the minimum conductors.

Response DR-67:

NS Power does not size conductors based on demand per customer therefore this information is not collected or calculated. Primary conductors are sized to ensure suitable voltage at the extent of each feeder, given the maximum design rating of the feeder as opposed to demand per customer. Secondary conductors are sized based on voltage drop, to ensure a suitable voltage at the service point.

NON-CONFIDENTIAL

Request DR-68:

Please explain how NS Power's minimum system cost model considers the following:

(a) Conduit and/or trenching cost for the replacement costs.

(b) Incremental trenching cost for secondary in a trench with primary.

(c) Voltage-related costs of insulators, cross arms, and cable insulation level.

Response DR-68:

(a-b) The replacement cost analysis is based on the material cost of the underground conductors and as such the conduit and trenching cost are not part of the analysis.

(c) The minimum system study is based on material cost of poles and conductors only.

NON-CONFIDENTIAL

Request DR-69:

Please provide the number of poles, length of conductor, and/or investment that NS Power is willing to add to rate base to add a customer with minimal load, including:

(a) A traffic light using 2 kWh/month.

(b) A streetlight using 15 kWh/month.

(c) A residential customer using 100 kWh/month.

(d) A communications device using 100 kWh/month.

Response DR-69:

(a-d) Please refer to the Nova Scotia Power Inc. Tariffs & Regulations.[1] The Company will establish a scope of work based on specific customer requests and will provision the request following the Tariffs and Regulations and Section 7.1 - Schedule of Charges outlined within the Regulations. The number of poles, length of conductor etc., are not based on load. They are typically scoped, estimated and cost recovered based on actual costs and as noted, in accordance with the Regulations. Two examples are noted below:

As per Section 2.6 - Overhead line and Service Extensions, the Company will normally provide to its customers a maximum of 92 metres of line or service extension, or 92 metres of line and service combined. The customer will be billed for the cost of all extensions over and above the 92 meters. There is no consideration or discount given due to load.

[1] Nova Scotia Power Inc. Tariffs & Regulations Approved by the Nova Scotia Utility and Review Board pursuant to The Public Utilities Act, R.S.N.S., 189,c.380 as amended

NON-CONFIDENTIAL

Section 3.5 - Street and Area Lighting outlines that the Company will supply and maintain standard streetlighting units required for regular mounting of the unit on an existing pole or suitable mounting location and the customer will be responsible for any cost in excess of those specified. There is no consideration or discount given due to load.

REDACTED

Request DR-70:

Please provide one or more estimations of the relative values for the Maritime Link benefit streams as itemized in IG RIR-4, but also considering grid support benefits. By grid support benefits, NS Power should generally interpret this value stream to be system benefits of the Maritime Link assets that are similar to those discussed in the wind integration study and the BESS application.

The end result of the value stream estimation should be to identify reasonable assignment of ML costs to functions and classification. The valuation could be cost-based (identifying the relevant portion of ML asset costs), benefit-based (identifying the cost of alternative resources), or a hybrid of the two.

The following are some potential concepts for NS Power to consider, but should not be considered as a limitation:

- **Grid support benefits – Transmission valuation (consistent with BESS functionalization proposal) on the basis of either (i) a reasonable percentage of the cost of the DC/AC conversion station (in NS) or (ii) the costs of a grid support device that provides comparable services.**

- **Surplus/market power and supplemental block – Energy valuation following either**

  (i) the method used by NSPML in its interim/final assessment filings or
  (ii) using the system hourly avoided cost and historical energy delivery to determine the value of the energy delivered.

- **NS Block – ML cost net the value streams listed above.**

REDACTED

Response DR-70:

The proposed study looking at a comprehensive set of ML benefit streams would require significant analytical resources and time, both internally and externally. It would involve external resources, such as consultants, due to the complexity of scenarios proposed including gathering of assumptions as well as setting up the simulations. Additionally, the study would have to be completed for each year of the study period, with multiple scenarios for each year, given the expected generation mix change on the power system going forward. A study of this scope cannot be completed in the timeframe allotted to the pertinent regulatory process. Benefits of Maritime Link are dynamic and change in response to the system configuration, weather, customer demand, customer load profiles, customer load flexibility, regulatory constraints, and many other factors. NS Power contends that quantifying the benefits of ML, or any other resource, value streams at a point in time may be misleading, as these are based on a specific set of system assumptions that are diverse and bound to change.

Regarding the point on surplus/market power and supplemental block energy, it should be noted that supplemental is not market priced. It is associated with the Energy and Capacity Agreement and flows off peak in the months of November through March for the initial 5 years of flows from Muskrat Falls and is expected to end April 1, 2027.

Surplus energy is market priced energy which settles daily. As such the energy is evaluated economically amongst other thermal generators and purchased power. This energy is evaluated daily. The benefit of such generation can fluctuate by hour, day, month, and year. NS Power received the first amounts of [redacted].

NON-CONFIDENTIAL

Request DR-71:

According to CA DR-28, NS Power is unable to differentiate between single-family and multi-family connections. However, DR-48(f) indicates that NS Power has service drop data that differentiates between single-family and multi-family connections. Can NS Power and Elenchus leverage these data to develop customer costs that meaningfully differentiate between single-family and multi-family connections? Even if the presentation is hypothetical – relying on some guessed-at data – illustrating what could be done if reasonable future data collection and application were done would be a meaningful response.

Response DR-71:

NS Power manages topology of customer service drops to service transformer connections in GIS. In this context, single-family and multi-family connections can be differentiated by the number of customers modeled at a single service drop.

NS Power has limited information on service drop length, material and size to aid in determining customer costs. This data would be required to develop a credible scenario, as connection data alone would not be sufficient to conduct this analysis.

While the Company has information on the number of customer installation types across the Province, the Company does not have the cost information associated with each of the customer installation types or a credible way of estimating this, which would be required "to develop customer costs that meaningfully differentiate between single-family and multi-family connections".

Request DR-72:

Please provide an update on the status of the powerflow modeling that would provide some clarity regarding the use of HV transmission by EHV-connected loads. (6/3 meeting)

Response DR-72:

NSPI maintains approximately 1,560km of 69kV sub-transmission lines compared to about 1,870 km of 138kV transmission lines. Powerflow modelling of the Nova Scotia transmission system has not been initiated.

It should be noted that many portions of the transmission system (Valley, Digby, Pubnico Pt, Caledonia, Parrsboro, Pugwash, Tatamagouche, Canso, Eastern Passage, Sheet Harbour, Pictou, Cheticamp) currently have little or no EHV (138kV) infrastructure and can only be served via the 69kV (HV) sub-transmission system. While some components of operating costs (i.e., losses) would be lower if 138kV transmission was expanded into all areas of the province, the capital costs associated with such infrastructure would be in the hundreds of millions of dollars.

Request DR-73:

Please provide information on whether it is possible to estimate the difference in the cost per customer by class for service lines, final line transformers, and meters.

Response DR-73:

It is not possible to accurately estimate the difference in the cost per customer by class for service lines for the following reasons.

- As provided in response to CA DR-48(a), NS Power does not have specific data related to the lengths of individual customer service drops and therefore the total lengths of service drops by rate class.

- As provided in response CA DR-48(d), NS Power does not have specific data related to the mix of service wires by class, either.

It is not possible to estimate the difference in the cost per customer by class for final line transformers. As provided in response to CA DR-28(a), NS Power does not have information on transformer services by individual rate classes. It is only available on a more aggregate basis by the residential, commercial and industrial segments. It should be possible to calculate weighted average cost of transformer in each segment based on the relative shares of each transformer type by its kVA size. Therefore, it should be possible to estimate the difference in the transformer cost per customer by segment but not by individual rate class.

It is possible to estimate the difference in the cost per customer by class for meters. This information is included in Exhibit 3(i) of the COSS.

REDACTED

Request DR-74:

Please consider my request to utilize the operating factor as an energy/demand allocator. For example, wind would have a near-100% energy allocation, but peaking generation would have an 80-95% demand allocation. If so, consider the following models:

- **10c – Same as 10b but using operating factor rather than capacity factor, for comparison**

- **10d – Applying operating factor to all generation, either on a unit-specific basis or in groups of like units, oil peakers, "intermediate generation," run-of river hydro (e.g., all hydro except WRC and ML)**

Note: for ML, operating factor would need to consider equivalent availability of the ML and the Muskrat Falls/LIL system, this is probably the hardest to allocate

Response DR-74:

Please refer to the following attachments which contain requested calculations.

- 10c
    - Confidential Attachment 1: 2023 COSS with steam generation classified to energy based on operating factors
    - Confidential Attachment 2: 2023 BCF COSS with all purchases, other than wind and Maritime Link, classified to energy based on weighted average system generation factor reflective of steam generation classified as above.

- 10d

  - Confidential Attachment 3: 2023 COSS with all generation, other than wind, classified to energy based on operating factors.

  - Confidential Attachment 4: 2023 BCF COSS with biomass and non-wind purchases classified to energy based on weighted average system generation factor reflective of classification based on operating factors as used in the 2023 COSS model and Maritime Link costs classified based on its operating factor reflective of equivalent availability of the ML and the Muskrat Falls/LIL system.

COSS CA DR-74 Confidential Attachment 1 has been removed due to confidentiality.

COSS CA DR-74 Confidential Attachment 2 has been removed due to confidentiality.

COSS CA DR-74 Confidential Attachment 3 has been removed due to confidentiality.

COSS CA DR-74 Confidential Attachment 4 has been removed due to confidentiality.

Request DR-75:

Please provide a best-effort presentation forecasting the annual revenue requirement through 2035, broken into the following categories:

- **Generation costs that NS Power proposes to be subject to classification to energy & demand**

- **Generation costs that NS Power proposes would be directly classified to energy (e.g., fuel costs)**

- **Transmission ARR vs grid-scale storage ARR (e.g., roughly what percentage of transmission costs will be due to grid-scale storage)**

Goal here is to understand what decisions made today will "matter" in 10 years.

Response DR-75:

NS Power does not have an annual revenue requirement forecast through to 2035. In lieu of an annual revenue requirement forecast, NS Power has provided a partial revenue requirement forecast in Attachment 1. This forecast is derived from the 2022 Evergreen IRP results for scenario CE1-E1-R2. Allocation of costs between energy and demand is based on NS Powers current position used in COSS Model Run #1, NSP Position.

When reviewing this information please be aware that:

- All capital costs for new resource additions are based on industry benchmarks developed in 2022 and actual project costs when submitted to the Board for approval will differ.

- Fuel costs are based on forecast commodity costs and actual costs will be subject to market conditions at the time of purchase.

- The timing and quantity of resource additions differs from the current 2030 Clean Power Plan.

COSS CA DR-75 Attachment 1 has been filed electronically.

Request DR-76:

Please provide a basic summary of current and forecast DSM program costs and benefits, including but not limited to the following:

- **Program costs**
- **Net participant benefits (bill savings – participant costs)**
- **Capacity benefits (avoided cost of capacity)**
- **Energy benefits (avoided cost of energy and other production costs, including carbon emission fees)**
- **Other quantified benefits (specify)**

Response DR-76:

A basic summary of EfficiencyOne's (E1) current and forecast demand side management (DSM) program costs and benefits can be found in the following:

- Current DSM Plan program costs and current DSM Plan avoided costs/benefits – provided throughout E1's 2023-2025 DSM Plan (M10473), and specifically Appendix A, as well as the Technical Table attachments for energy efficiency (Appendix A, Attachment 4), and demand response (Appendix A, Attachment 6), respectively.

- Net participant benefits – provided in E1's Rate and Bill Impact Analysis (RBIA) for the 2023-2025 DSM Plan (M10473, Appendix B, Attachment 6).

- Forecast DSM program costs and benefits – available in E1's Nova Scotia Energy Efficiency and Demand Response Potential Study for 2021-2045 (i.e. 2019 DSM Potential Study), filed under Matter M08929 on August 14, 2019.

- Forecast DSM avoided costs/benefits – please refer to Attachment 1 which provide the avoided costs from the DSM Advisory Group (DSMAG) distribution on August 23, 2024. These are the latest avoided costs series, under development via the DSMAG, for use in E1's 2026-2030 DSM Plan development.

Request DR-77:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

The interruptible load demand charge discount is accounted for as a credit in the O&M costs for the Large Industrial customer class. It is unclear how the revenues associated with this discount are collected from customers in the COSS and how the undiscounted demand charge is calculated for rate purposes. As discussed in IG RDR-9 and 10, the benchmark for the credit is the cost of a CT unit and it appears that this value is updated in GRC filings.

It would be helpful to have these processes demonstrated on a call or relevant documentation provided as a supplemental data response.

IG RDR-11 provides a comparison of the interruptible credit maximum allowed interruptions to forecast operating hours for various energy technologies. It would be helpful to also have the actual number of interruption hours per year for the past 10 years.

Response DR-77:

For the regulatory process concerned with determination and approval of the interruptible credit please refer to the following.

- Attachment 1 which includes description of the process used by NS Power to calculate the credit.[1]
- Attachment 2 which includes calculations supporting the interruptible credit currently in effect.[2]

[1] NSUARB P-888, NS Power 2009 General Rate Application, AVON IR-168.
[2] M10431, NS Power 2022-2024 General Rate Application, SR-01 Attachment 5.

- Section 7.13.3 of the NSUARB Decision on NS Power's 2022-2024 GRA (M10431) which approves the proposed changes to the interruptible credit.

Under the current 2023 COS, the interruptible credit costs of $11.796 million are apportioned to all rate classes based on class relative shares in the three coincident system peaks (3CP Demand). Please refer to Exh 6, Page 1 of 6, line 27 for details. For the discussion of the costing treatment of interruptible credit in the COSS please refer to NS Power's 2013 COSS Application.[3] For the approval of the current methodological treatment of interruptible supply credit in the COSS please refer to the NSUARB's decision on the 2013 COS proceeding.[4]

Changes in demand charges are approved in GRA proceedings. They are determined by applying a necessary across-the-board increase to the demand and non-fuel components of energy charges in effect to meet non-fuel cost revenue responsibilities by rate class. Please refer to:

- SR-01 Attachment 1b for discussion how class revenue responsibilities are determined.[5]
- Appendix B – 2023-2024 Proof of Revenue[6] to see how charges were set to match approved revenues.
- Appendix A -2023-2024 Rates[7] by Component Tables to see changes in the approved rates.

Records of interruption hours per year are available back to 2016 only. Actual interruption hours per year are as follows:

	# of Interruption Events	* Total Duration (Hours: Minutes)
2024 YTD	2	2:48
2023	6	20:02
2022	10	37:16

[3] M05473, NS Power 2013 Cost of Service Study, NS Power Application, Appendix H – 2013 COS Strawman Report V1, Recommendation R4.4-5, June 28, 2013, pages 36-37 of 261.
[4] M05473, NS Power 2013 Cost of Service Study, NSUARB Decision, Section 3.12 Agreed to items – Approach and Future studies, [para 168], Item 1 (f) Correctly allocate interruptible supply credit among rate classes.
[5] (M10431) NS Power 2022-2024 GRA, NS Power Application, SR-01 Attachment 1b
[6] (M10431) NS Power 2022-2024 GRA, Compliance Filing, February 16, 2023
[7] (M10431) NS Power 2022-2024 GRA, Compliance Filing, February 16,2023

NON-CONFIDENTIAL

	# of Interruption Events	* Total Duration (Hours: Minutes)
2021	4	9:56
2020	0	0:00
2019	0	0:00
2018	1	7:13
2017	0	0:00
2016	2	2:49

* Interruption event duration is measured from the initiation time of the interruption notification to the first group of interruptible customers to the initiation time of the restoration notification for the last group of interruptible customers. Not all groups of interruptible customers are necessarily interrupted during each interruption event.

NON-CONFIDENTIAL

Request IR-168:

With respect to AVON IR-104,

a) Please provide the calculations used to establish the current credit. Include the estimated costs (capital cost, financing cost and operating cost) and MW capability for the combustion turbine that was used. Please provide the date as of which this cost was estimate was prepared and dollars the estimate was prepared in (e.g. 2007 $).

b) Has NSPI updated the cost estimate for the combustion turbine used to determine the value of the interruptible credit? If not, explain why this was not done.

c) Is NSPI of the view that the cost of a combustion turbine has not changed since the estimate was prepared?

Response IR-168:

a) The current value of interruptibility is based on the annual avoided costs of a 60 MW combustion turbine (CT) using 1996 costs. This cost (in $/kW/year) is used in conjunction with representative NSPI interruptible customer demand determinants to develop the demand credit to be applied to the firm demand charge.

The calculation of the interruptible credit of $3.43/kVA/month was derived in three steps:

1) The calculated annual carrying cost of a 60 MW CT ($63.00/kW) was estimated using the following information:

Response IR-168: (cont'd)

Capital Cost of 60 MW CT (1994) ($M)	39.06
CT Capacity (kW)	60,000
Cost per kW of Capacity ($)	651
Customer Demand Served (60 MW/1.2)[1] (MW)	50
Plant Life (years)	35
Real Cost of Money (%)	6.86
Annual Cost ($M)	3.031
Annual Cost of Load Served ($/kW, in 1994 dollars)	60.62
Annual Cost of Load Served ($/kW, in 1996 dollars) adjusted for annual inflation at 2%/year	63.07
Cost ($/kW, rounded to nearest dollar)	63

2) The total value of interruptible demand on NSPI's system was estimated by multiplying the cost per kW by the system coincident interruptible demand served under the Interruptible Rider:

$63 * 202,000 kVA = $12,726,000.

3) This $12,726,000 was divided by the total non-coincident demand billing determinants applicable to the interruptible rider (3,700 MVA-months) to calculate the monthly credit.

$12,726,000 / 3,700 MVA-months = $3.43/kVA/month

[1] Adjusted to recognize 20 percent reserve margin.

NON-CONFIDENTIAL

Response IR-168: (cont'd)

b) In its 2002 Rate Application, NSPI proposed that the credit be updated to $3.08/kVA/month. The Board decided to address this and other rate design issues at a Generic Rate Design Hearing which was held in June, 2003. Following the Hearing, the UARB determined that no changes to the interruptible credit were warranted at that time. NSPI has proposed no further changes since that time.

c) The cost of a CT can vary for a variety of market reasons. The cost used in the current interruptible credit calculation remains within its current market price range.

COSS CA DR-77 Attachment 2 has been filed electronically.

REDACTED

Request DR-79:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

The Elenchus model run (#7) removed sub-functionalization of conductors (as well as poles). There is no concern with sub-functionalizing conductors, and I regret any confusion on this point. The model run should be revised accordingly.

Response DR-79:

Please refer to Confidential Attachment 1 for the COSS model reflecting the requested changes.

The sub-functionalization of poles remains the same as in Model #7 while overhead and underground wires, line transformers, and service drops have been reverted back to the original sub-functionalization.

COSS CA DR-79 Confidential Attachment 1 has been removed due to confidentiality.

REDACTED

Request DR-80:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

Model #7 should be re-run with sub-functionalization of poles that carry only secondary service and secondary wires/conductors cost to secondary service customers. This may require obtaining and re-analyzing the Concentric survey data from the GRC in order to determine alternative factors that are hard-coded into Exh. 3c of the COSS model.

Response DR-80:

Please refer to Confidential Attachment 1 for the COSS model reflecting the requested changes.

The sub-functionalization of poles has been revised such that all combination poles (poles that carry both primary and secondary conductors) are sub-functionalized as Primary only, as is already the case with poles that carry only primary conductors, while poles that carry only secondary conductors are sub-functionalized as Secondary only. The sub-functionalization of poles to Secondary declines from 36.3 percent to 17.0 percent in this scenario.[1] Secondary poles are allocated to all Secondary distribution customers consistent with the allocation used for Secondary poles in the current COSS, as NS Power does not track the number of customers served only by combination primary/secondary poles. The sub-functionalization of overhead and underground wires, line transformers, and service drops have been reverted back to the original sub-functionalization.

[1] Please refer to the sum of Secondary Demand and Secondary Customer factors in Exhibit 3C.

COSS CA DR-80 Confidential Attachment 1 has been removed due to confidentiality.

NON-CONFIDENTIAL

Request DR-81:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

See HCM Method memo, updated September 11, 2024.

Response DR-81:

It is NS Power's understanding, as indicated during the COSS positions session held on October 16th, 2024, that the HCM model will not be pursued as part of this proceeding and will be an item that NS Power would be willing to further pursue subsequent to this proceeding.

NON-CONFIDENTIAL

Request DR-82:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

The reason for this request is that the BCF model was set in Fall of 2021 and does not reflect Maritime Link and other major generation changes.

Response DR-82:

Please refer to COSS Models 14a and 14b, filed on October 8, 2024, which reflect uncapped fuel costs from the 2023-2024 GRA Refresh filed in September 2022.

NON-CONFIDENTIAL

Request DR-83:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

While it is understood that it is not possible to develop a fully updated study model, the model should be reviewed for major changes to NS Power's cost structure that would be present in a future rate case and provide reasonably accurate changes. It is understood that this model will not be directly comparable to the baseline model. Once developed, it could be run with a priority subset of model cases.

Response DR-83:

NS Power does not have a sufficient level of detail in its long-term cost forecast to produce a credible COSS reflecting a potential future rate case that would be comparable to the baseline 2023 COSS model. Please refer to CA DR-75 for the level of cost detail available regarding a future revenue requirement through 2035.

REDACTED

Request DR-84:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

Setting aside legacy resources, the goal for the system should be to transition the energy/demand split to historic operating factors (ratio of output to equivalent availability). Classification of the costs of units with high operating factors on a primarily energy basis is most reasonable using the HCM method because it allocates those costs to the hours in which they operate. However, even under a seasonal or annual energy cost allocation, because those units generate when available, it is reasonable to allocate their costs to energy since that is their primary function.

Similarly, for units with low operating factors, their primary function is to be available and not to supply energy – supporting a classification to demand.

A key challenge to this approach is existing hydro. Since existing hydro is expected to operate well beyond the lifetime of other legacy assets, it should be transitioned to the operating factor paradigm. However, a key question for hydro is how to treat water supply limitations within the concept of the definition of equivalent availability. This requires further discussion.

Output and equivalent availability data are partially available from the FAM report. Operating Factor, as I intend it to be referenced, would be calculated as: unit output (MWh) / (weighted equivalent availability factor (%) * Hours * Maximum Capacity). Weighted equivalent availability factor is defined by NERC in Appendix F of its GADS Data Reporting Instructions.

NS Power's CA RDR-74 provided this response, except that the request for using the operating factor in 10d excluded wind for reasons that are not explained by NS Power. NS Power should verify that the operating factor values used in RDR-74 are consistent with the definition above, and update the response to include an operating factor for wind.

Response DR-84:

Operating factors, adjusted for equivalent availability, are not available for wind generation.

Further, classification of non-dispatchable wind generation, based on its capacity or operating factors, as a proxy methodology for Equivalent Peaker Method (EPM), is not appropriate. The use of most of non-dispatchable wind generation in Nova Scotia is not motivated by economic choice between capital-intense units with lower generation running costs and low capital units with high generation running costs, for which the EPM was designed. Rather, the application of wind generation is primarily driven by compliance with environmental related legislation and regulations such as renewable energy standards (RES). It's been NS Power's long-standing practice to classify wind generation based on Effective Load Carrying Capability (ELCC) factor.

In preparing this response, Elenchus asked NS Power to examine if Weighted Equivalent Availability (WEA) factors were available for all types of dispatchable generation. As a result of this request, NS Power provided Equivalent Availability factors for each dispatchable generation unit. The factors used in response to CA DR-74 have also changed, as a result of this revision.

Please refer to the following attachments which contain the revised COSS calculations.

- 10c revised:
    - Confidential Attachment 1: 2023 COSS with steam generation classified to energy based on revised operating factors. Overall, the weighted average operating factor

of steam generation was reduced from 65.3 percent to 45.3 percent as presented in the "Rate Base Classification" tab of Attachment 2.

- Confidential Attachment 2: 2023 BCF COSS with all purchases, other than wind and Maritime Link, classified to energy based on weighted average system generation factor reflective of steam generation classified as above.

- 10d revised:

  - Confidential Attachment 3: 2023 COSS with all generation, other than wind, classified to energy based on operating factors. Overall, the weighted average operating factors of steam, hydro, LM6000 and Gas Turbines have been reduced as presented in the "Rate Base Classification" tab of Attachment 4.

  - Confidential Attachment 4: 2023 BCF COSS with biomass and non-wind purchases classified to energy based on weighted average system generation factor reflective of classification based on operating factors as used in the 2023 COSS model and Maritime Link costs classified based on its operating factor reflective of equivalent availability of the ML and the Muskrat Falls/LIL system.

COSS CA DR-84 Confidential Attachment 1 has been removed due to confidentiality.

COSS CA DR-84 Confidential Attachment 2 has been removed due to confidentiality.

COSS CA DR-84 Confidential Attachment 3 has been removed due to confidentiality.

COSS CA DR-84 Confidential Attachment 4 has been removed due to confidentiality.

NON-CONFIDENTIAL

Request DR-85:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

For purposes of understanding the trends in cost categories, we requested a forecast of the annual revenue requirement through 2035 by function and classification. It is understood that such a forecast would come with significant caveats, and it could be provided at a relatively general level of precision (significant digits). An example of the level of detail and approach that could be taken can be found in NS Power's 2020 IRP, Appendix D.

Response DR-85:

NS Power does not have a sufficient level of detail in its long-term cost forecast to produce a credible revenue requirement through to 2035. Please refer to CA DR-75 for the level of available cost detail of a future revenue requirement through 2035.

Request DR-86:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

We requested a better understanding of how energy arbitrage and charge cycle losses will be accounted for in the FAM process.

Response DR-86:

NS Power's generation resource plan does not foresee the utilization of battery storage for the purpose of energy arbitrage. Rather, a battery is treated as a capacity resource enhancing system reliability. For FAM purposes, the cost of cycle losses associated with charging and discharging batteries is determined by multiplying lost energy by the average system fuel cost on a monthly basis.

Request DR-87:

Reference: Information requests were made of NS Power by John Wilson on behalf of the Consumer Advocate in his memo "Outstanding Requests for COSS Process" sent via email on September 20, 2024.

Currently DSM costs are allocated based on a split between class (customer) benefits and system benefits. We requested a review of the current forecast of DSM cost/benefit test results and whether those are aligned with those approaches. For example, how does the system benefit cost allocated to all customer classes align with the system benefits forecast from DSM programs?

Response DR-87:

The current DSM cost allocation methodology, with a 75/25 split between direct class costs and system cost benefits, came into effect as a result of a Settlement Agreement reached by stakeholders in the 2010 DSM Plan proceeding.[1] NS Power is not aware of any cost study conducted in support of this methodology. The 75/25 split appears to be an arbitrary factor and the apportionment of the system cost benefits among rate classes based on their usage of energy and demand may not necessarily be reflective of the system cost benefits they derive from the DSM Programs.

To assist in discussion of alternate allocations of system cost benefits, NS Power examined system and class cost savings projected for the period 2023-2040 in the 2023-2025 DSM Plan proceeding (M10473). Using cost allocation results, provided in the cost-of-service simulations,[2] NS Power puts forward for stakeholders' consideration two options for treatment of system cost benefits.

[1]NSUARB-NSPI-P-884(2) 2009 NSUARB 116 para [66].
[2] M10473 – EfficiencyOne 2023-2025 Demand Side Management ("DSM") Plan Application, Appendix B Rate and Bill Impact Analysis of the 2023-2025 DSM Plan, Attachment 6: NS Power Rate Model – Settlement Plan (Filed Electronically).

Option One:

Keeping the 75/25 split assumption unchanged, NS Power apportioned the system cost benefits to rate classes based on class shares in the cumulative savings in their total electricity costs, inclusive of their budgeted 2023-2025 DSM Plan costs, over the 2023-2040 period they are projected to achieve as a result of the implementation of the 2023-2025 DSM Plan. The cumulative cost savings are used as an indication of total benefits realized by rate classes due to DSM programs. **Figure 1** below presents differences in class relative under the current method and the method under Option One.

Figure 1

Breakdown of Cost Responsibilities for System Benefits

Rate class	Current Method	Class Shares in 2023-2040 Electric Service Cost Savings due to DSM	Change Index
Residential	54.3%	31.7%	0.6
Small General	3.4%	6.8%	2.0
General	23.3%	39.3%	1.7
Large General	3.5%	6.7%	1.9
Small Industrial	2.6%	5.0%	1.9
Medium Industrial	4.7%	2.8%	0.6
Large Industrial	7.0%	5.5%	0.8
Municipal (1)	0.4%	2.2%	5.2
Unmetered	0.8%	0.2%	0.2
Total	100%	100%	1.0

(1) The anomalous results for the Municipal Class are likely attributed to incorrect inclusion of reduction in usage of all 5 MEUs whereas only one non-OATT MEU is used in the COSS Model simulations.

The difference in class shares is attributable to differences in:

- DSM Program participation levels by rate classes; and

- effectiveness of DSM Programs designed for individual ate classes in reducing their electricity usage.

Option Two:

The system cost benefit for each individual class was defined as the cost savings a class would achieve absent its participation in the 2023-2025 DSM Plan when all other rate classes are full participants. These calculations were made by zeroing out energy and demand savings as well as budgeted DSM program costs attributable to one particular class at a time under the 2023-2025 DSM Plan. As a result of this simulation exercise the split between the overall cost savings and cost savings attributed solely to the change in system costs was calculated to be 93.2/7.2. There was also a significant shift in percent distribution of responsibility for system costs among rate classes. The departure from the current 75/25 split is due to the system non-fuel embedded cost reduction effect being less than that of the redistribution of resulting embedded costs among reduced usage of rate classes. With the marginal non-fuel unit costs being below the embedded non-fuel unit costs, the resulting system non-fuel embedded unit costs are higher, causing an increase in the embedded non-fuel costs of a non-participating rate class. Please refer to the table ”Option Two Non-participating Class Test - Class cost savings attributable to DSM Programs of Other Classes” in columns M to N of tab “CA DR-87 2023-2025 DSM Plan” of Attachment 1 for details.

Figure 2 presents differences in class shares in responsibility for system cost benefits under the current method and the method under Option Two.

Figure 2

Breakdown of Cost Responsibilities for System Benefits

Rate class	Current Method	Class Shares in 2023-2040 Electric Service Cost Savings due to DSM activities of other classes	Change Index
Residential	54.3%	45.9%	0.8
Small General	3.4%	2.3%	0.7
General	23.3%	15.7%	0.7
Large General	3.5%	6.1%	1.7
Small Industrial	2.6%	3.2%	1.2
Medium Industrial	4.7%	7.0%	1.5
Large Industrial	7.0%	18.0%	2.6
Municipal	0.4%	0.5%	1.1
Unmetered	0.8%	1.3%	1.7
Total	100%	100%	1.0

The difference in class shares between the current method (reflective of class shares in usage of electric services of energy and demand) and share in system cost benefits (calculated under Option Two), is due to the fact that the system cost benefits result primarily from reduction in fuel costs. Therefore, classes with fuel costs representing a relatively a larger share of their total cost of service show higher system benefits than currently assessed. These classes are typified by higher load factors and higher service voltage levels.

Below-the-line (BTL) rate classes

Since the BTL rate classes of GRLF, 1P-RTP, Shore Power, BUTU, EBS, and SS do not participate in DSM Programs they have not been included in the Rate and Bill Impact Analysis filed in the DSM proceedings. In light of this, their system cost benefit treatment may need to remain as is. The overall share of these classes in the assigned DSM costs in 2025 was below 0.5 percent.

NON-CONFIDENTIAL

For the illustration of differences in apportioned DSM costs to the above-the-line (ATL) rate classes, using the 2025 DSM costs recently filed in the 2025 DSM Rider Application, please refer to tab "CA DR-87 2025 PCR Allocation" of Attachment 1.

COSS CA DR-87 Attachment 1 has been filed electronically.

NON-CONFIDENTIAL

Request DR-88:

Please provide all workpapers, spreadsheets and power point presentations prepared by the Company in Coincident Peak (CP) analyses.

Response DR-88:

Please refer to the following attachments:

- Attachment 1
  - NS Power's Power Point presentation used in a conference call with CA on December 4, 2024.
- Attachment 2
  - Ranking table of tested CP methods using the historic NSR dataset.
  - Cost redistribution effects of tested CP methods on rate classes.
- Attachment 3
  - Graphs providing relative shares of the Domestic, General and Large Industrial rate classes in the tested CP statistics.
- Attachment 4
  - Tab "CofV & mean matrix" – contains coefficients of variation in annual values of tested CP methods for the Domestic, General and Large Industrial classes.
  - Tab "Class Demand Usage" shows tabulated annual values of tested CP methods for all rate classes.
    - To produce results of aggregate CP data analyses from the 2016-2022 period a value of 1 must be entered in cell B2.

- To produce results by individual calendar years a value of 0 must be entered in cell B2 and a calendar year in cell B6.
- To get results under tested CP method compared to one of the two benchmarks used in rows 7 through 10 the method # must be entered in cell B5.

- Tabs “peak data NSR” and “peak data ANL” contain hourly CP class usage and system load values from the period 2016-2022.
  - Tables in the bottom sections of these tabs include tabulated frequencies of CP events across months under various CP methods.

2024 Generic COS Proceeding

Conference Call with Consumer Advocate – CP Analysis

December 4, 2024

Nova Scotia POWER
An Emera Company

Approach

- NS Power examined 11 CP Methods
  - 3 winter month methods: 3CP_JFD, 4CP_JFMD and 5CP_JFMND
  - 8 unconstrained methods: 1CP, 2CP, 3CP, 4CP, 5CP, 10CP, 20CP and 88CP

  using two alternate hourly system load datasets to determine hours of system peaks:
  - Net System Requirement (NSR)
  - Adjusted Net Load (ANL) set as a difference between NSR and Wind generation.
- Class contributions to NSR and ANL peaks were determined using class actual hourly usage curves.
- 7 Year period from 2016-2022 was examined.

Criteria

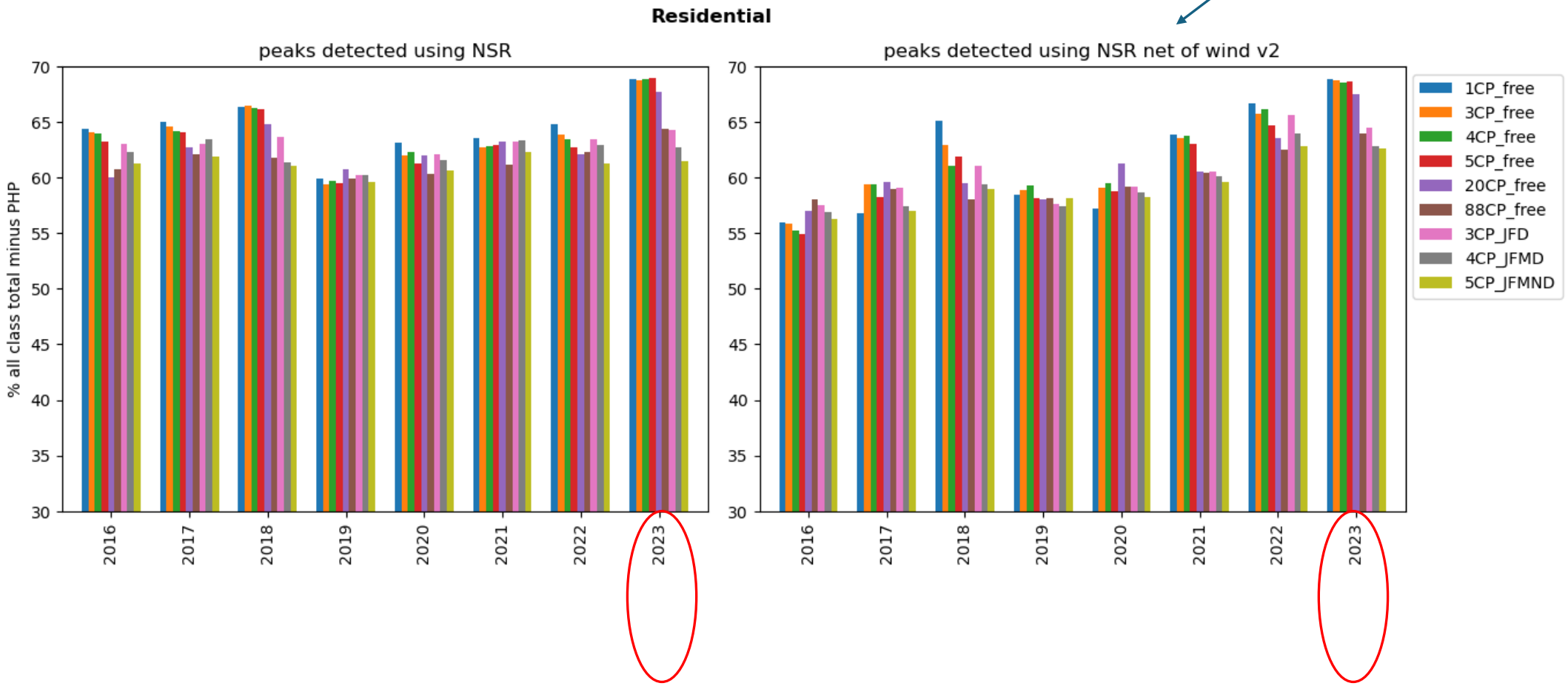
- Cost Causation – defined by proximity of arithmetic average of multipoint peaks under various CP methods to annual system peak (or 1CP)
- Cost Redistribution Effect among rate classes – measured as % change in annual revenues
- Stability of Cost Allocation Results from year to year – measured as
  - Coefficient of Variation in actual annual CP statistics
  - % Changes in Simulated Annual Total Cost of Service
- Precedents from other Canadian Jurisdictions

Findings

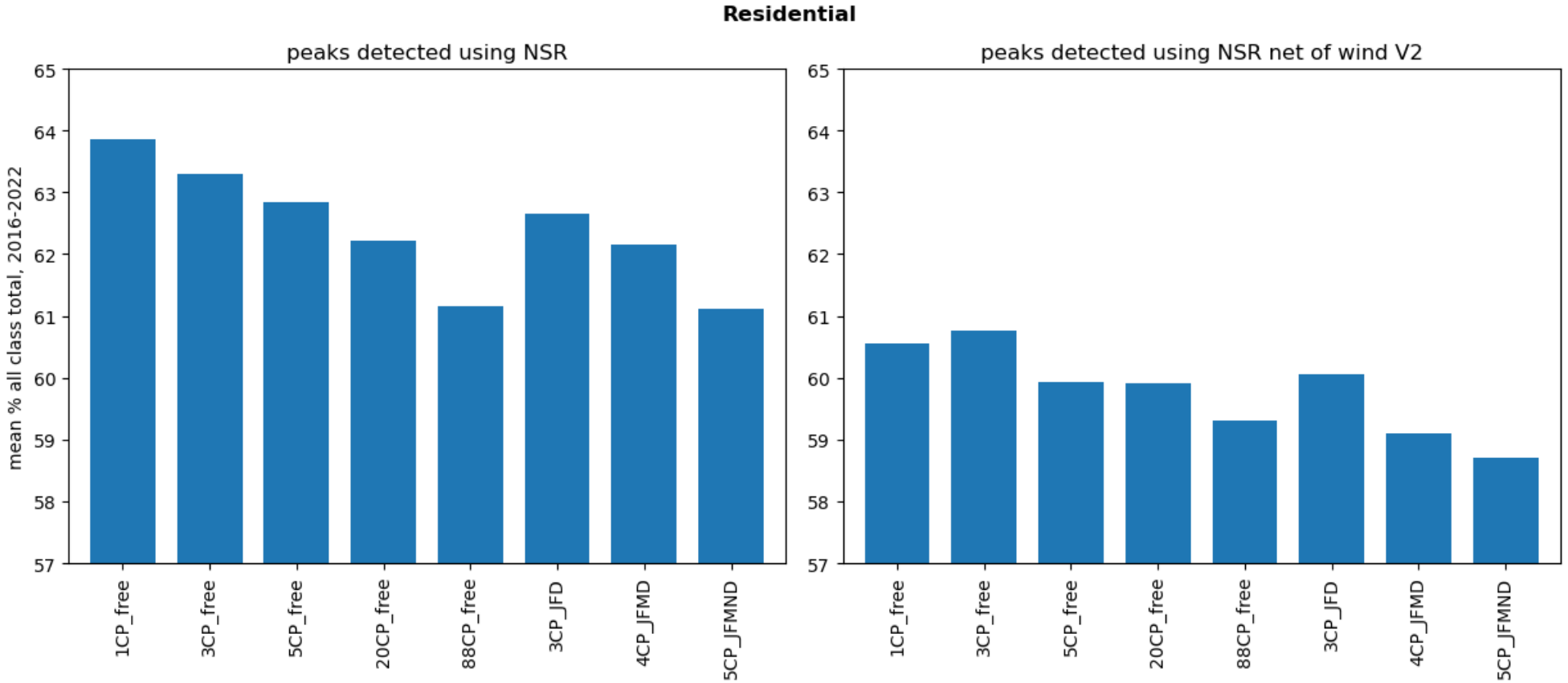
- The winter peak methods provide for more stable cost allocation results from year to year but rank worse under cost causation criterion than corresponding unconstrained methods.
  - It takes as many as 88CP to match stability offered by constrained methods
- The average overall cost redistribution effects of tested CP methods on the Domestic class using NSR dataset are minor and fall within -0.6% to 0.5%.
- The effects on other classes are more significant.
- Analysis using ANL produces more volatile results.

COSS CA DR-88 Attachment 2 has been filed electronically.

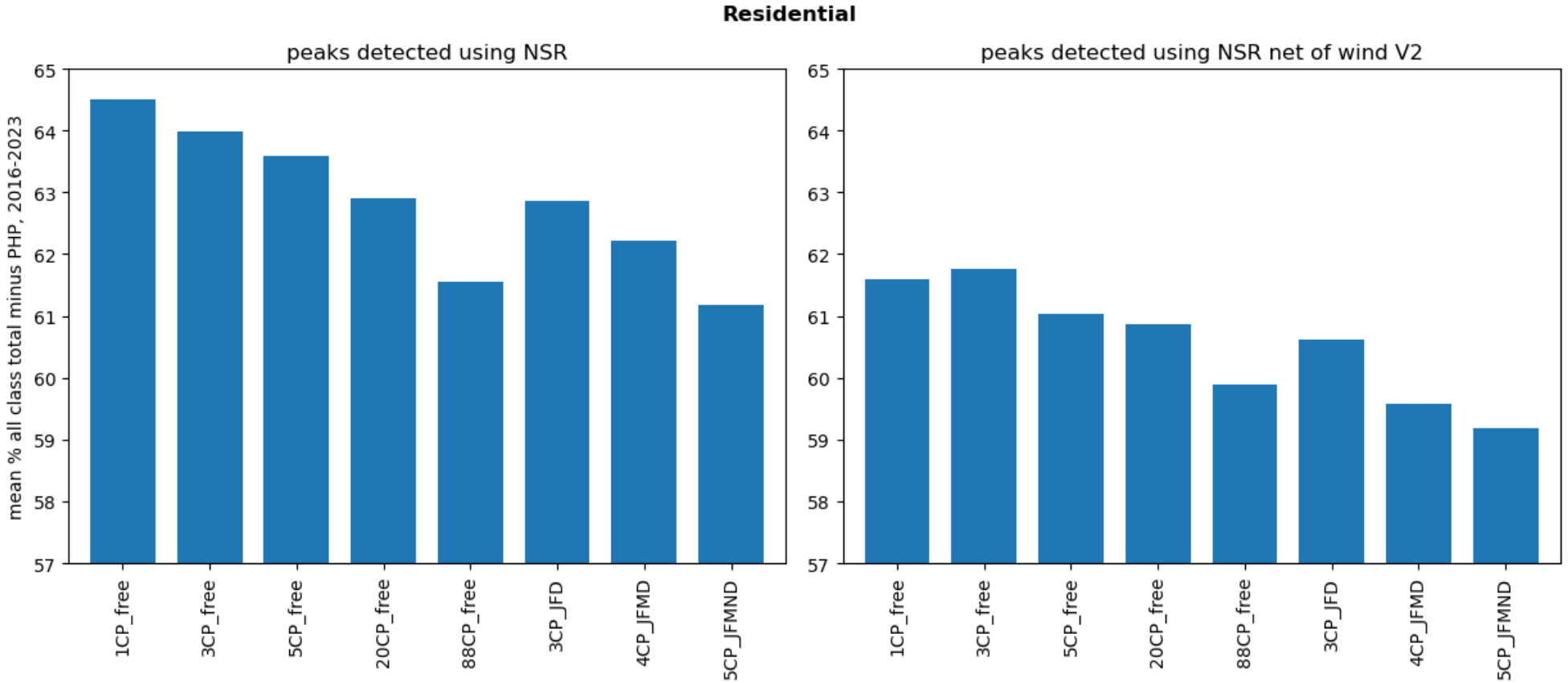
(this is NSR net of transmission & distribution connected wind)

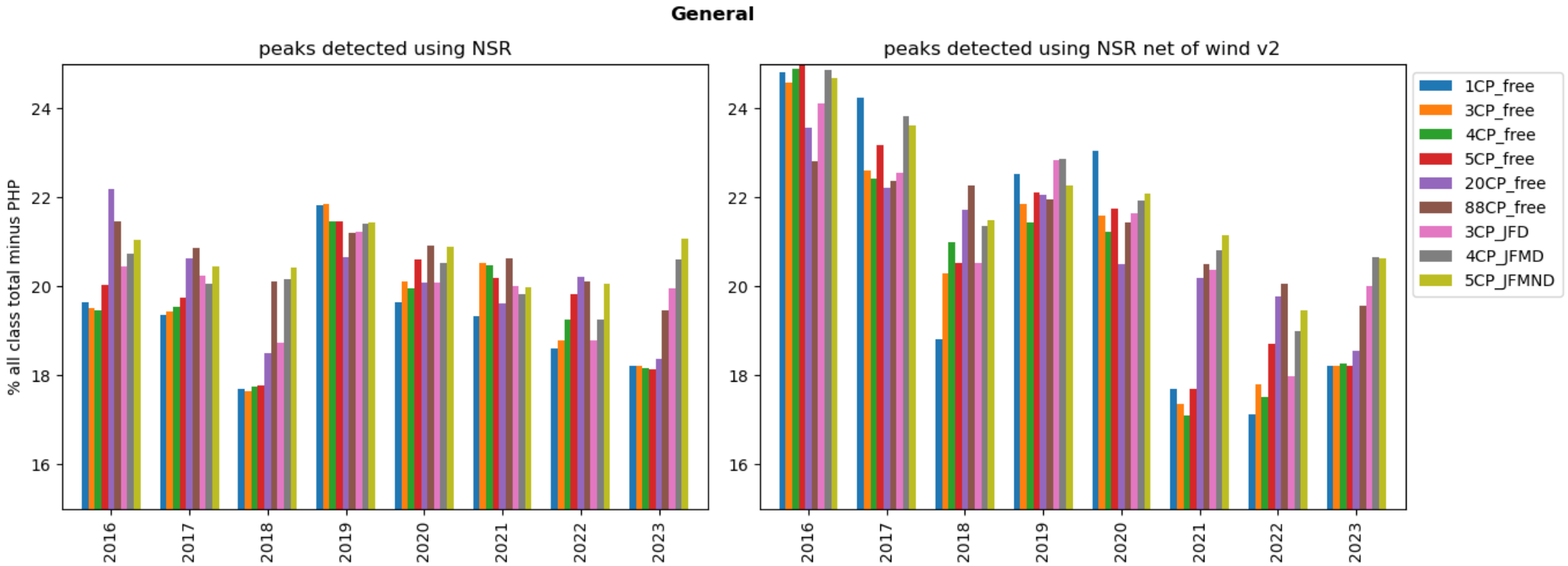


Averaged for period 2016 – **2022**

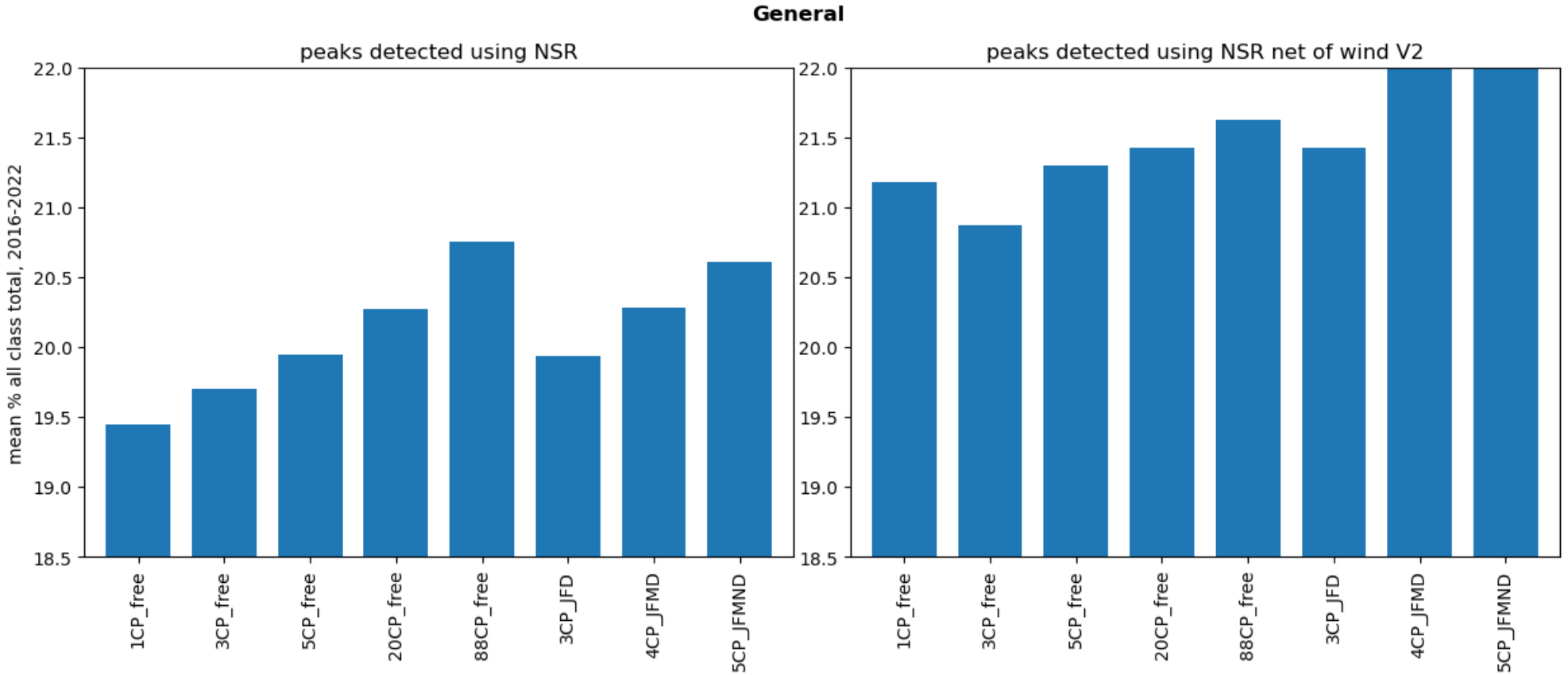


Averaged for period 2016 – **2023**

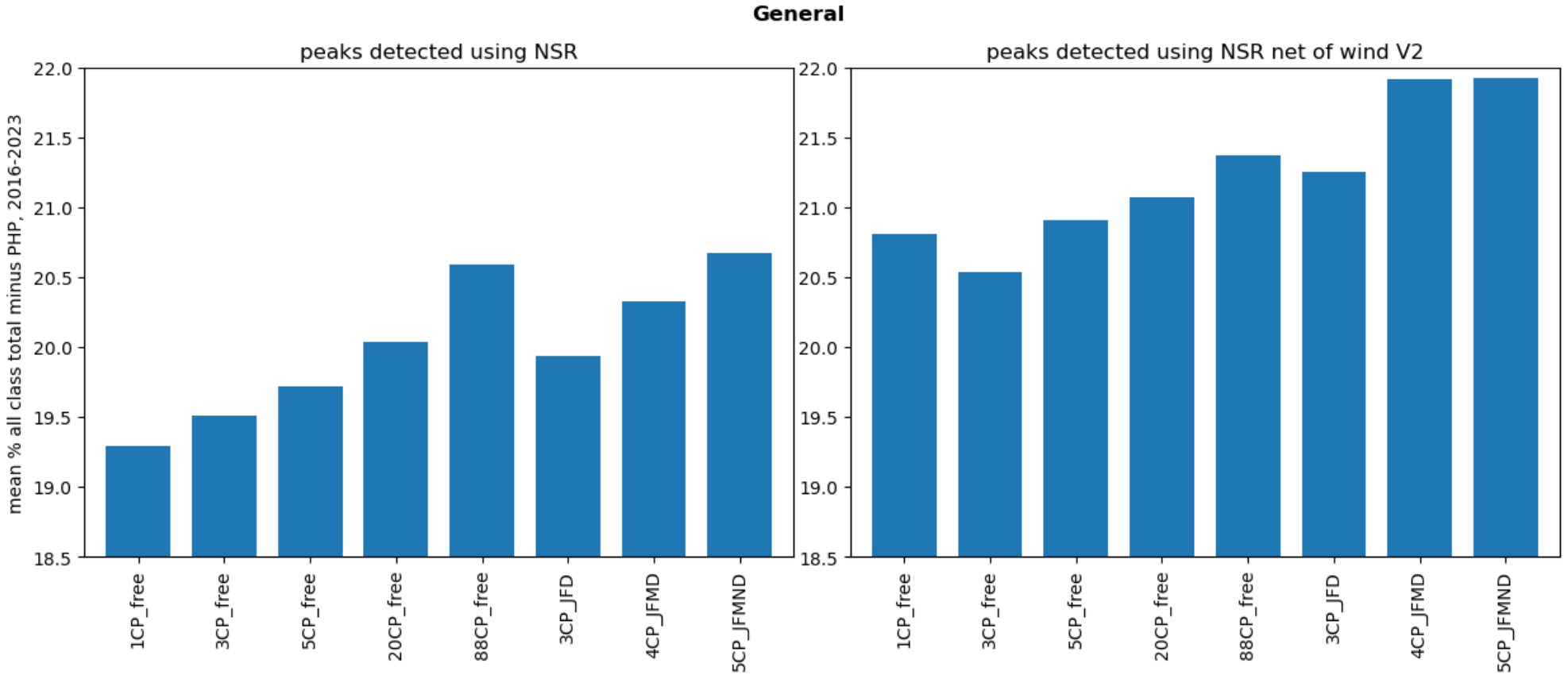


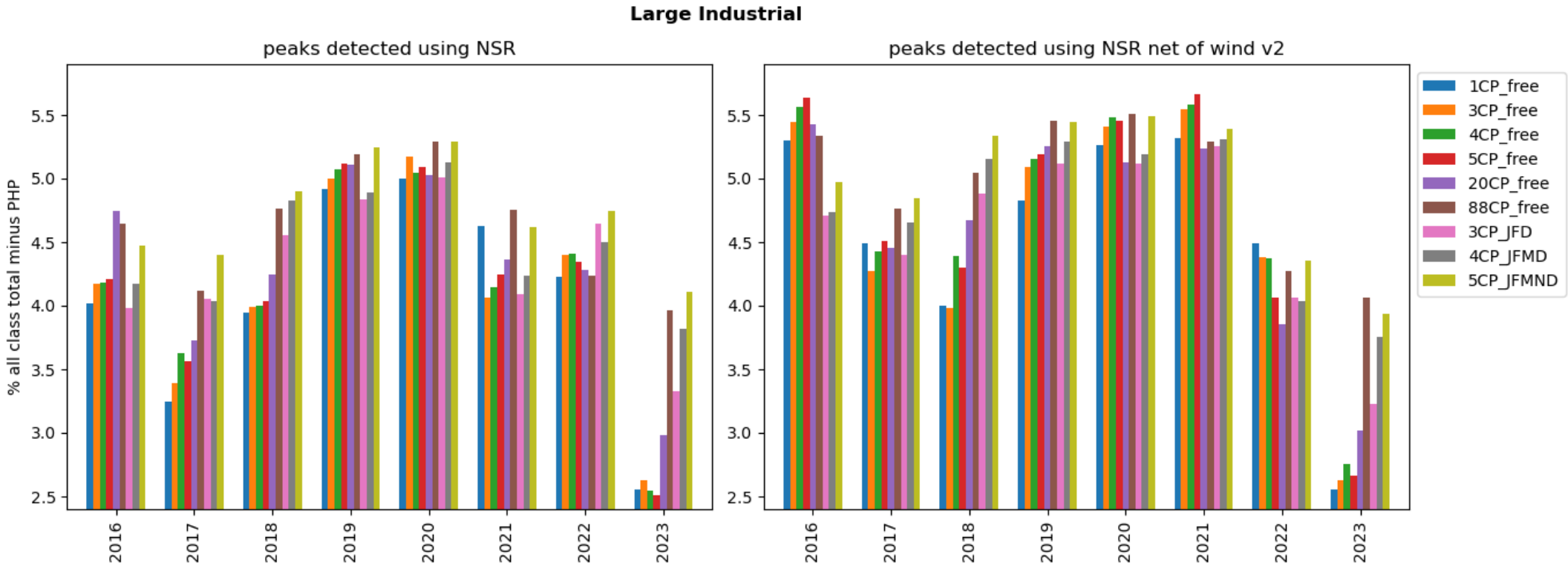

General
peaks detected using NSR
peaks detected using NSR net of wind v2
% all class total minus PHP
24
22
20
18
16
2016
2017
2018
2019
2020
2021
2022
2023
1CP_free
3CP_free
4CP_free
5CP_free
20CP_free
88CP_free
3CP_JFD
4CP_JFMD
5CP_JFMND

Averaged for period 2016 – **2022**

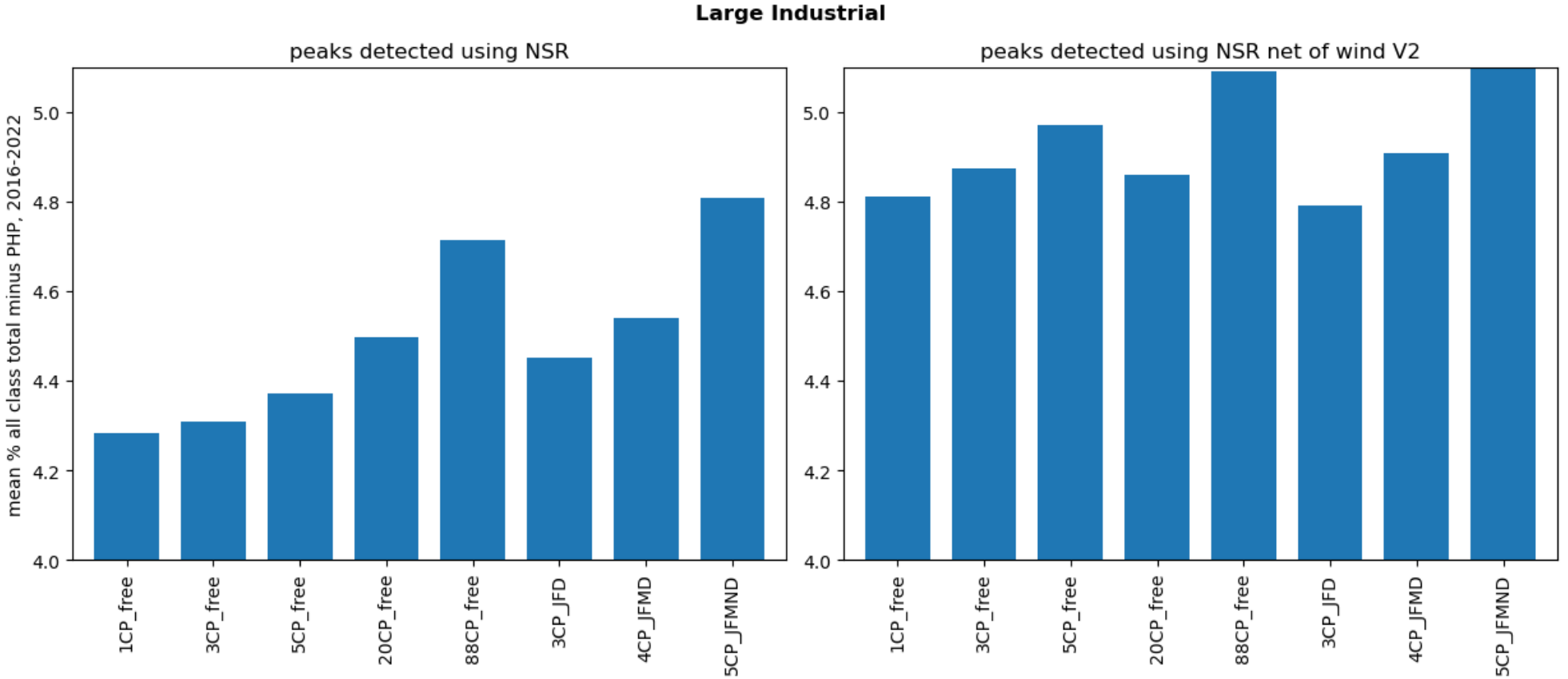


Averaged for period 2016 – **2023**

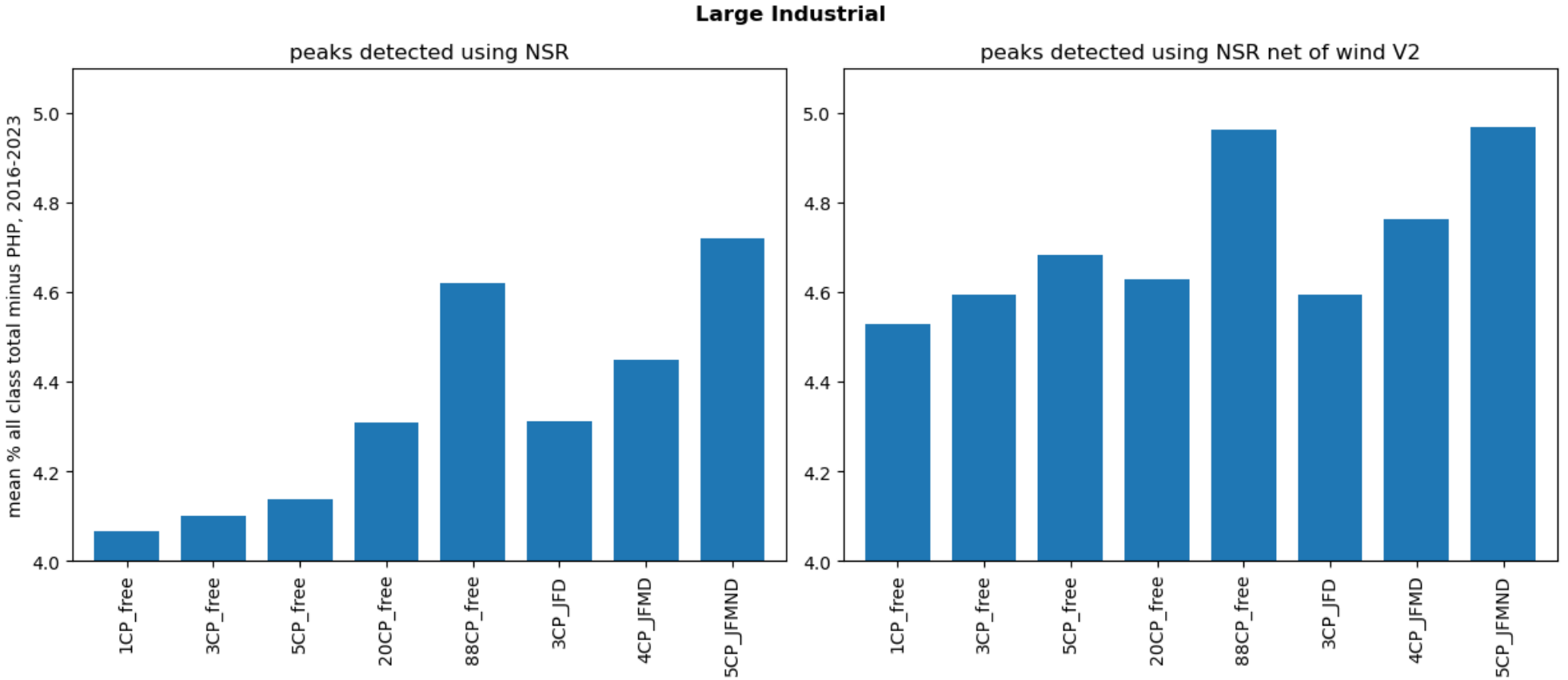



Large Industrial
peaks detected using NSR
peaks detected using NSR net of wind v2
% all class total minus PHP
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2016
2017
2018
2019
2020
2021
2022
2023
1CP_free
3CP_free
4CP_free
5CP_free
20CP_free
88CP_free
3CP_JFD
4CP_JFMD
5CP_JFMND

Averaged for period 2016 – **2022**



Averaged for period 2016 – **2023**



COSS CA DR-88 Attachment 4 has been filed electronically.

NON-CONFIDENTIAL

Request DR-89:

Reference: November 4, 2024 and November 5, 2024 Cost of Service Study Resolution Sessions verbal request.

Update Meter Cost allocators.

Response DR-89:

The NS Power believes the response to CA DR-51 meets this request.

Request DR-1:

Tabulated hourly charging and discharging profile for all Battery Energy Storage (BESS) (i.e., including behind-the-meter) on the day of the winter peak demand in 2030. Please also include hourly imports and exports on that day.

Response DR-1:

Please refer to the below table for the BESS charging and discharging profile during the day of peak demand, for the year 2030, from the scenario CE1-E1-R2 in the 2022 Evergreen IRP. In this scenario the total BESS nameplate capacity in 2030 is 140 MW / 560 MWh. Behind-the-meter BESS and exports from Nova Scotia were not modelled during the 2022 Evergreen IRP.

BESS Generation is the total generation output from the batteries net of any losses. Energy reflects the total energy stored in the BESS. The Battery Load is the total load drawn by the BESS from the grid for recharging and includes invertor and other losses. These properties as well as hourly imports are tabulated below.

Datetime	System Load (MW)	BESS Generation (MW)	Energy (MWh)	BESS Load (MW)	Imports (MW)	Exports (MW)
2030-01-08 1:00	1,907	0	59	64	625	0
2030-01-08 2:00	1,924	0	186	138	625	0
2030-01-08 3:00	1,922	0	315	140	625	0
2030-01-08 4:00	1,923	0	444	140	625	0
2030-01-08 5:00	1,929	0	560	126	625	0
2030-01-08 6:00	1,862	0	560	0	625	0
2030-01-08 7:00	1,970	0	560	0	625	0
2030-01-08 8:00	2,035	0	560	0	475	0
2030-01-08 9:00	2,168	50	506	0	475	0
2030-01-08 10:00	2,236	49	452	0	475	0
2030-01-08 11:00	2,258	57	391	0	475	0
2030-01-08 12:00	2,263	60	325	0	475	0

NON-CONFIDENTIAL

Datetime	System Load (MW)	BESS Generation (MW)	Energy (MWh)	BESS Load (MW)	Imports (MW)	Exports (MW)
2030-01-08 13:00	2,248	80	239	0	475	0
2030-01-08 14:00	2,213	20	217	0	475	0
2030-01-08 15:00	2,195	0	217	0	475	0
2030-01-08 16:00	2,219	28	187	0	475	0
2030-01-08 17:00	2,362	31	153	0	475	0
2030-01-08 18:00	2,475	30	121	0	475	0
2030-01-08 19:00	2,441	46	71	0	475	0
2030-01-08 20:00	2,408	4	67	0	475	0
2030-01-08 21:00	2,382	62	0	0	475	0
2030-01-08 22:00	2,301	0	0	0	475	0
2030-01-08 23:00	2,125	0	0	0	475	0
2030-01-09	1,880	0	0	0	625	0

1

Request DR-2:

Tabulated hourly charging and discharging profile for all Battery Energy Storage (BESS) (i.e., including behind-the-meter) for the summer day with the lowest diurnal wind power generation in 2030. Please also include hourly imports and exports on that day.

Response DR-2:

Please refer to the below table for the summer day with the lowest diurnal wind power, for the year 2030, from the scenario CE1-E1-R2 in the 2022 Evergreen IRP. Behind-the-meter BESS and exports from Nova Scotia were not modeled during the 2022 Evergreen IRP.

BESS Generation is the total generation output from the batteries net of any losses. Energy reflects the total energy stored in the BESS. The Battery Load is total load drawn by the BESS from the grid for recharging and includes invertor and other losses. These properties as well as system load, wind generation and hourly imports are tabulated below.

The lowest diurnal wind day is a part of a four-day period in the modelling characterized by low amounts of wind generation and low system load requirements. During this four-day period the BESSs are not recharged and load is met with other forms of generation and imports.

Datetime	System Load (MW)	Wind Generation (MW)	BESS Generation (MW)	Energy (MWh)	BESS Load (MW)	Imports (MW)	Exports (MW)
2030-07-14 1:00	911	31	0	0	0	400	0
2030-07-14 2:00	883	14	0	0	0	400	0
2030-07-14 3:00	869	32	0	0	0	400	0
2030-07-14 4:00	880	53	0	0	0	400	0
2030-07-14 5:00	883	41	0	0	0	400	0
2030-07-14 6:00	881	11	0	0	0	400	0
2030-07-14 7:00	872	60	0	0	0	400	0
2030-07-14 8:00	908	39	0	0	0	225	0

NON-CONFIDENTIAL

Datetime	System Load (MW)	Wind Generation (MW)	BESS Generation (MW)	Energy (MWh)	BESS Load (MW)	Imports (MW)	Exports (MW)
2030-07-14 9:00	973	4	0	0	0	225	0
2030-07-14 10:00	1001	11	0	0	0	225	0
2030-07-14 11:00	1058	4	0	0	0	225	0
2030-07-14 12:00	1109	4	0	0	0	225	0
2030-07-14 13:00	1121	4	0	0	0	225	0
2030-07-14 14:00	1113	7	0	0	0	225	0
2030-07-14 15:00	1099	10	0	0	0	225	0
2030-07-14 16:00	1098	15	0	0	0	225	0
2030-07-14 17:00	1130	16	0	0	0	225	0
2030-07-14 18:00	1149	12	0	0	0	225	0
2030-07-14 19:00	1089	13	0	0	0	225	0
2030-07-14 20:00	1062	7	0	0	0	225	0
2030-07-14 21:00	1046	9	0	0	0	225	0
2030-07-14 22:00	1058	8	0	0	0	225	0
2030-07-14 23:00	1015	7	0	0	0	225	0
2030-07-15	976	32	0	0	0	400	0

1

NON-CONFIDENTIAL

Request DR-1:

Please provide 3-5 years of historical hourly load data for total system and by customer class (that aligns with CP allocator input data – i.e. at generation or at metre depending on which NSPI uses).

- **Ideally 5 years of data to ensure a range of experiences (including 'normal') given the 2020 and 2021 may be potentially irregular due to COVID impacts and the 2022/23 winter was known to be extremely cold (polar vortex).**

Response DR-1:

NS Power has hourly system load and class load data at the customer meter only for the large customer classes of Large General, Large Industrial and Municipal. Other classes are estimated based on load research sample (LRS) data. Hourly data by year is provided in CA DR-58 Attachment 1.

Please refer to Attachment 1 which describes the process used by NS Power of development of costing determinants used in the COSS, including the CP allocators. To estimate one year forward peak demands by class (as used in the COSS process), load factors developed from the 2022 LRS have been used to disaggregate the system peak forecast into classes. The class-level energy at the meter forecast is developed using monthly bills, not load research.

2004 **NSUARB-P-881**

NOVA SCOTIA UTILITY AND REVIEW BOARD

IN THE MATTER OF: The *Public Utilities Act,* R.S.N.S. 1989, c.380 as amended

IN THE MATTER OF: An Application by Nova Scotia Power Incorporated for Approval of Certain Revisions to its Rates, Charges and Regulations

RESPONSE TO INFORMATION REQUEST

TO: NSPI

FROM: UARB

Question IR-215: **What historic period was used to determine the monthly MW and Energy profiles and the typical week load shape provided in response to UARB IR-51?**

Please provide a description of the process used to produce the information provided in IR-51 from the historic period data. Include in your response a clear description of any "normalizing" process, e.g. for weather effects, both in terms of the actual MW and MWh values and in the derivation of the weekly load shapes.

Response IR-215: The historic period used to determine the demand and energy determinants and load profiles was the most recent full calendar year, 2003.

The process used to develop the data provided in UARB IR-51 is as follows:

a. The energy forecast for each sector was prepared using large customer survey results, and end-use and econometric models. Losses were added to the energy sales forecast to provide the forecast of Net System Requirement shown in the second column (Energy Requirement) of the table shown in UARB-IR-51. The billed sector sales forecasts were disaggregated to produce the sales forecast for each rate class, and accrued class sales were calculated. The energy forecasting process is described in detail in the 2005 Load Forecast Report (Appendix J of NSPI's Application).

b. Hourly load shapes for 2003, for each rate class, were extracted from NSPI's load research database and any obvious data anomalies (such as missing data, Hurricane

2004 **NSUARB-P-881**

NOVA SCOTIA UTILITY AND REVIEW BOARD

IN THE MATTER OF: The *Public Utilities Act*, R.S.N.S. 1989, c.380 as amended

IN THE MATTER OF: An Application by Nova Scotia Power Incorporated for Approval of Certain Revisions to its Rates, Charges and Regulations

RESPONSE TO INFORMATION REQUEST

TO: **NSPI**

FROM: **UARB**

Response IR-215: (cont'd)

Juan adjustments, etc.) were repaired using surrounding data for similar day types (i.e.: day of the week…Mondays, Tuesdays, etc).

c. The actual demands for each rate class for each month at the time of NSPI's monthly system peaks were estimated from the class load shapes. For temperature-sensitive classes, for the winter months, in the event that the temperature at the time of the actual system peak was significantly different than the "peak design" temperature of –15 degrees Celcius, the demand for that hour was selected using another day in the month where the temperature was closer to design.

d. Forecast peaks for individual large customers were forecast based on their historical peaks and load factors as well as any new information based on surveys and discussions with customers. Customer peaks were summed to produce the class peaks for the Large Industrial and Large General classes, as well as below-the-line rates.

e. Coincident monthly load factors were calculated for each rate class, using the demands from c) and d) above, and the actual monthly class energies from 2003.

f. The monthly class load factors were used in combination with the 2005 forecast monthly class energy sales from step a) to derive the monthly sales peaks for 2005.

2004 **NSUARB-P-881**

NOVA SCOTIA UTILITY AND REVIEW BOARD

IN THE MATTER OF: The *Public Utilities Act,* R.S.N.S. 1989, c.380 as amended

IN THE MATTER OF: An Application by Nova Scotia Power Incorporated for Approval of Certain Revisions to its Rates, Charges and Regulations

RESPONSE TO INFORMATION REQUEST

TO: **NSPI**

FROM: **UARB**

Response IR-215: (cont'd)

g. Demand losses were added to each class using historically-estimated coincident demand loss percentages, and then added to the sales demands to produce the net system peaks shown in column 3 of the table shown in UARB IR-51.

The typical week load profiles shown in UARB IR-51 were constructed in the following fashion:

1. Actual 2003 hourly Net System Requirement data (cleansed as in part b) above) for each month was averaged by day type within each month to produce an average week's profile. These average profiles were provided as input to the Strategist model.

2. Strategist reconciles these average weekly profiles while maintaining the forecast monthly peaks and energies provided. The typical week load profiles shown in UARB IR-51 are the load shapes used by Strategist.

NON-CONFIDENTIAL

Request DR-2:

Generation Classification

- **To support slides 2 and 3 of the 20240429 NS Power COSS Process presentation – for each of the five years/scenarios please provide generation by plant (in GWh by month if possible), annual and monthly capacity factors for each of the generation sources shown.**

Response DR-2:

Please refer to Attachment 1.

Please note for 2024 data is only available for the first quarter, and for 2030, while two days were shown in the 20240429 presentation these are both from the same scenario so only one set of monthly values is provided for 2030.

2013 Actuals (GWh)	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
Lingan 1	88.3	86.4	46.6	49.0	72.2	80.7	76.2	83.6	52.0	68.4	77.2	92.4	873.0
Lingan 2	102.7	76.1	69.5	78.3	71.1	54.4	64.2	32.9	44.2	45.4	73.3	78.5	790.6
Lingan 3	92.5	80.9	70.0	35.7	71.4	65.9	75.7	57.0	49.5	68.6	60.5	28.4	756.1
Lingan 4	99.5	92.5	89.0	94.5	92.9	95.1	95.1	59.8	3.7	47.1	61.5	100.5	931.2
Point Aconi	118.2	104.8	113.8	106.9	109.3	46.4	70.4	113.3	105.9	96.5	105.5	116.6	1207.6
Point Tupper	92.3	82.8	91.8	89.9	91.0	77.5	47.9	0.0	0.0	43.6	93.1	104.4	814.3
Trenton 5	55.1	68.7	72.7	70.2	74.2	24.8	47.3	40.1	54.3	0.0	32.9	95.4	635.6
Trenton 6	85.8	101.3	110.9	101.5	(0.2)	57.4	107.3	107.6	107.4	111.8	101.8	106.0	1098.6
Tufts Cove 1	55.3	37.3	27.0	0.0	(0.1)	(0.2)	(0.2)	(0.7)	(0.3)	(0.2)	4.4	6.9	129.2
Tufts Cove 2	(0.2)	(0.0)	10.0	4.3	0.2	(0.4)	13.4	45.3	22.9	42.7	16.2	45.5	199.9
Tufts Cove 3	71.6	59.2	52.5	52.5	50.8	55.1	23.4	7.6	57.6	60.7	32.1	45.5	568.7
Total Thermal	**861.2**	**790.0**	**753.8**	**682.9**	**632.8**	**556.7**	**620.6**	**546.7**	**497.2**	**584.6**	**658.4**	**820.0**	**8004.9**
Burnside	2.0	0.2	(0.1)	(0.0)	0.0	(0.0)	0.3	(0.1)	(0.0)	0.0	0.2	0.1	2.6
LM 6000 Tufts Cove 4	13.7	11.3	10.7	3.0	2.5	5.1	20.3	29.0	25.8	24.4	29.2	24.4	199.3
LM 6000 Tufts Cove 5	23.8	10.3	12.4	4.5	1.3	1.6	12.5	27.9	24.5	28.0	28.4	23.9	199.3
LM6000 Tufts Cove 6	7.7	4.7	5.3	0.8	0.0	0.0	7.0	17.1	13.3	12.8	14.8	13.6	97.0
Tusket	0.1	0.1	(0.0)	0.0	0.0	0.0	0.0	0.0	(0.0)	(0.0)	(0.0)	0.1	0.2
Victoria Junction	(0.0)	0.1	(0.0)	(0.1)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0.3	0.2
Total CTs	**47.3**	**26.7**	**28.3**	**8.2**	**3.8**	**6.6**	**40.0**	**74.0**	**63.5**	**65.2**	**72.5**	**62.4**	**498.6**
Hydro	96.7	96.0	100.4	106.4	77.0	55.7	58.7	43.0	59.9	59.8	81.1	125.5	960.1
Wind	116.2	83.2	87.3	91.2	88.9	63.0	60.1	62.1	80.9	73.5	106.5	81.6	994.4
Tidal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	15.7	13.3	12.3	6.3	9.4	25.4	29.7	31.4	24.6	24.6	31.5	31.2	255.4
Maritime Link													
Maritime Link Imports	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Imports	55.5	52.5	61.0	31.5	27.6	68.4	34.2	50.1	53.5	26.4	13.6	16.5	490.7
Battery	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	**1192.6**	**1061.7**	**1043.0**	**926.5**	**839.6**	**775.8**	**843.2**	**807.3**	**779.7**	**834.0**	**963.6**	**1137.2**	**11204.1**

2023 Actuals (GWh)	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total
Lingan 1	47.8	73.5	43.3	0.0	0.0	0.0	46.6	59.5	58.2	45.8	52.6	37.2	464.4
Lingan 2	47.0	48.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	3.5	115.2
Lingan 3	45.8	57.0	74.0	70.8	23.4	59.5	22.5	28.6	17.5	21.1	27.9	45.5	493.6
Lingan 4	70.7	42.5	53.4	69.5	41.7	12.6	54.3	13.1	39.9	20.2	0.0	41.5	459.7
Point Aconi	99.2	58.1	83.6	30.1	45.0	78.6	81.9	56.9	7.8	70.0	72.7	98.7	782.6
Point Tupper	64.5	79.2	80.4	6.6	8.4	18.6	34.9	24.5	45.7	5.3	63.3	49.4	480.7
Trenton 5	24.9	57.6	38.6	12.0	(0.6)	(0.8)	(1.0)	(0.7)	(0.3)	(0.8)	37.6	16.5	183.0
Trenton 6	92.5	64.6	101.7	86.8	60.8	34.9	30.8	(0.1)	53.1	16.1	71.8	76.5	689.4
Tufts Cove 1	17.4	41.0	7.4	46.5	20.6	47.8	28.1	(0.0)	16.0	51.0	43.7	21.6	341.0
Tufts Cove 2	38.7	34.0	38.8	48.2	45.9	20.9	34.3	44.8	42.1	13.6	0.0	18.0	379.3
Tufts Cove 3	63.1	43.4	66.0	(0.2)	49.9	59.5	67.8	78.5	73.6	26.0	64.1	58.7	650.4
Total Thermal	**612.8**	**600.5**	**592.4**	**370.8**	**295.8**	**332.1**	**400.4**	**306.4**	**354.3**	**269.1**	**451.6**	**468.2**	**5054.4**
Burnside	2.0	3.4	0.2	0.7	0.4	0.7	0.2	0.2	0.1	0.2	0.1	1.3	9.4
LM 6000 Tufts Cove 4	25.1	21.3	25.6	13.0	8.8	20.3	22.7	23.9	24.5	24.8	22.9	27.0	260.0
LM 6000 Tufts Cove 5	27.2	23.6	26.2	23.9	18.8	9.7	21.0	19.1	23.2	22.7	23.3	26.3	264.9
LM6000 Tufts Cove 6	17.4	12.2	14.5	10.4	4.1	3.9	10.2	10.2	13.4	11.6	13.9	17.7	139.4
Tusket	(0.0)	0.6	(0.0)	(0.0)	0.0	0.1	0.0	(0.0)	(0.0)	(0.0)	0.0	0.1	0.7
Victoria Junction	0.6	0.6	0.0	0.2	0.1	0.0	0.1	0.0	(0.0)	(0.0)	(0.0)	0.2	1.9
Total CTs	**72.2**	**61.7**	**66.4**	**48.2**	**32.2**	**34.8**	**54.3**	**53.4**	**61.1**	**59.1**	**60.3**	**72.5**	**676.2**
Hydro	155.1	115.6	92.3	52.4	51.3	59.5	58.3	47.5	55.1	81.1	64.8	111.9	944.8
Wind	118.5	129.0	148.0	119.9	155.8	93.2	71.9	87.8	88.8	102.3	133.9	161.7	1410.7
Tidal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	16.3	26.2	29.8	30.5	32.8	17.0	23.2	33.5	28.7	16.9	6.4	19.0	280.3
Solar	0.1	0.2	0.3	0.4	0.6	1.7	0.8	0.7	0.6	0.5	0.3	0.2	6.2
IPP Other	4.5	5.1	4.3	4.7	6.0	5.0	3.9	4.5	4.6	4.5	6.2	6.9	60.1
Maritime Link	95.8	121.2	99.0	111.0	113.5	96.1	105.1	132.5	68.1	141.2	181.7	186.3	1451.5
Maritime Link EAA (Surplus)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	68.0	0.0	0.0	102.7
Other Imports	49.5	60.8	76.3	120.5	129.3	115.2	144.8	166.2	80.3	68.0	63.2	77.5	1151.6
Battery	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	**1124.8**	**1120.2**	**1108.8**	**858.4**	**817.4**	**754.6**	**862.6**	**832.4**	**776.3**	**810.6**	**968.3**	**1104.1**	**11138.5**

2024 Actuals (GWh)	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Total
Lingan 1	82.5	53.6	52.8										188.9
Lingan 2	21.8	30.4	(0.0)										52.2
Lingan 3	84.2	65.7	23.2										173.1
Lingan 4	60.3	48.9	24.0										133.2
Point Aconi	108.9	86.6	87.9										283.4
Point Tupper	92.6	57.2	32.8										182.5
Trenton 5	52.3	59.6	13.1										125.1
Trenton 6	89.2	45.3	46.8										181.2
Tufts Cove 1	17.2	14.0	24.1										55.3
Tufts Cove 2	25.0	43.3	54.3										122.6
Tufts Cove 3	71.3	59.7	61.7										192.6
Total Thermal	**706.3**	**565.5**	**421.1**										**1692.9**
Burnside	1.7	1.9	1.0										4.7
LM 6000 Tufts Cove 4	24.9	24.3	26.5										75.7
LM 6000 Tufts Cove 5	26.5	25.1	25.2										76.8
LM6000 Tufts Cove 6	16.1	16.0	16.9										49.0
Tusket	(0.0)	0.0	0.0										(0.0)
Victoria Junction	0.2	0.4	0.2										0.7
Total CTs	**69.3**	**67.7**	**69.8**										**206.8**
Hydro	107.5	78.6	102.4										288.4
Wind	145.3	149.9	171.8										467.0
Tidal	0.0	0.0	0.0										0.0
Biomass	19.3	28.7	28.2										76.2
Solar	0.2	0.3	0.5										1.1
IPP Other	5.9	5.3	6.0										17.2
Maritime Link	152.2	175.7	179.7										507.5
Maritime Link Imports	0.0	0.0	0.0										0.0
Other Imports	42.4	59.0	75.5										176.9
Battery	0.0	0.0	0.0										0.0
Total	**1248.4**	**1130.7**	**1055.0**										**3434.1**

2030 Forecast* (GWh)	Jan-30	Feb-30	Mar-30	Apr-30	May-30	Jun-30	Jul-30	Aug-30	Sep-30	Oct-30	Nov-30	Dec-30	Total
Lingan 1 (oil)	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.7
Lingan 2													0.0
Lingan 3 (oil)	6.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	17.8
Lingan 4 (oil)	4.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	20.2
Point Aconi													0.0
Point Tupper (nat gas)	10.7	1.2	1.3	0.0	0.0	0.0	2.1	4.4	1.0	0.0	4.4	2.1	27.2
Trenton 5													0.0
Trenton 6													0.0
Tufts Cove 1	4.6	3.7	0.0	0.0	0.0	2.5	12.4	6.3	1.1	1.5	0.0	0.0	32.1
Tufts Cove 2	26.8	12.1	2.6	0.0	6.3	6.8	36.0	28.9	14.4	10.6	4.7	13.5	162.8
Tufts Cove 3	53.0	35.4	15.3	9.8	28.6	35.8	60.2	58.9	19.8	6.9	27.6	34.4	385.7
Total Thermal	**106.7**	**65.5**	**19.2**	**9.8**	**34.9**	**45.1**	**110.7**	**98.5**	**36.4**	**19.0**	**36.7**	**77.1**	**659.5**
Burnside	2.8	6.5	2.4	0.0	0.1	0.0	0.8	0.1	0.7	0.1	3.6	4.6	21.6
LM 6000 Tufts Cove 4	29.4	21.3	25.9	24.6	16.5	5.3	26.6	28.2	21.4	20.4	26.3	20.6	266.4
LM 6000 Tufts Cove 5	28.8	21.1	26.6	24.0	21.5	14.5	12.5	27.8	19.6	23.0	23.6	23.6	266.7
LM6000 Tufts Cove 6	19.0	14.3	15.6	16.0	16.1	3.5	16.7	18.6	12.9	14.8	16.6	15.5	179.8
Tusket	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	2.1
Victoria Junction	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.9
New CT's (450 MW)	14.7	14.9	5.2	15.4	18.0	28.7	21.4	21.7	33.9	14.8	10.6	14.9	214.3
Total CTs	**94.9**	**79.2**	**76.4**	**80.0**	**72.2**	**52.0**	**78.1**	**96.5**	**88.5**	**73.2**	**81.1**	**79.8**	**951.7**
Hydro	108.9	116.7	99.7	108.8	104.3	69.6	55.9	41.2	52.1	64.1	75.3	104.0	1000.4
Wind	507.8	457.2	553.8	450.1	459.1	413.2	338.6	389.2	379.6	473.3	484.6	524.7	5431.3
Tidal	1.8	1.7	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	21.4
Biomass	42.2	41.9	42.0	27.0	27.3	32.5	37.8	20.1	32.8	28.8	35.2	39.8	407.5
Solar	10.7	15.8	24.6	29.2	33.4	31.1	34.4	33.8	26.9	18.9	8.4	8.0	275.2
IPP Other													0.0
Maritime Link	74.9	68.1	75.8	73.3	75.9	73.4	75.9	75.9	73.4	75.8	73.3	75.5	891.2
Maritime Link Imports	203.0	203.8	160.4	105.4	33.8	43.2	70.0	51.2	47.0	46.4	114.0	182.0	1260.2
Other Imports	49.2	43.8	50.4	49.8	11.4	8.4	33.0	34.2	33.0	41.4	54.6	57.6	466.8
Battery	12.7	11.3	9.7	11.1	16.0	13.3	11.6	11.3	12.5	15.6	9.7	16.2	150.9
Total	**1212.7**	**1105.0**	**1113.9**	**946.2**	**870.0**	**783.7**	**847.6**	**853.8**	**783.9**	**858.2**	**974.5**	**1166.4**	**11515.9**

*From 2022 Evergreen IRP scenario CE1-E1-R2

Capacity Factor	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Annual
Lingan 1	78%	84%	41%	44%	63%	73%	67%	73%	47%	60%	70%	81%	65%
Lingan 2	93%	77%	63%	74%	65%	51%	58%	30%	41%	41%	69%	71%	61%
Lingan 3	81%	79%	61%	32%	63%	60%	67%	50%	45%	60%	55%	25%	56%
Lingan 4	87%	90%	78%	86%	82%	86%	84%	53%	3%	41%	56%	88%	69%
Point Aconi	95%	93%	91%	88%	87%	38%	56%	91%	88%	77%	87%	93%	82%
Point Tupper	83%	82%	82%	83%	82%	72%	43%	0%	0%	39%	86%	94%	62%
Trenton 5	49%	68%	65%	65%	66%	23%	42%	36%	50%	0%	30%	85%	48%
Trenton 6	75%	98%	97%	92%	0%	52%	94%	94%	97%	98%	92%	93%	81%
Tufts Cove 1	95%	71%	47%	0%	0%	0%	0%	0%	0%	0%	8%	12%	19%
Tufts Cove 2	0%	0%	14%	6%	0%	0%	19%	66%	34%	62%	24%	66%	25%
Tufts Cove 3	65%	60%	48%	50%	46%	52%	21%	7%	54%	56%	30%	42%	44%
Total Thermal													
Burnside	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
LM 6000 Tufts Cove 4	37%	34%	29%	8%	7%	14%	56%	80%	73%	67%	83%	67%	46%
LM 6000 Tufts Cove 5	65%	31%	34%	13%	4%	5%	34%	77%	70%	77%	81%	66%	46%
LM6000 Tufts Cove 6	22%	15%	15%	2%	0%	0%	20%	50%	40%	37%	45%	40%	24%
Tusket	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Victoria Junction	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
Total CTs													
Hydro													
Wind													
Tidal													
Biomass													
Maritime Link													
Maritime Link Imports													
Other Imports													
Battery													
Total													

Capacity Factor	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Annual
Lingan 1	42%	71%	38%	0%	0%	0%	41%	52%	53%	40%	48%	33%	35%
Lingan 2	43%	49%	4%	0%	0%	0%	0%	0%	0%	0%	11%	3%	9%
Lingan 3	40%	55%	65%	64%	21%	54%	20%	25%	16%	19%	25%	40%	37%
Lingan 4	62%	41%	47%	63%	37%	11%	48%	12%	36%	18%	0%	36%	34%
Point Aconi	79%	51%	67%	25%	36%	65%	66%	46%	6%	56%	60%	79%	53%
Point Tupper	58%	79%	72%	6%	7%	17%	31%	22%	42%	5%	59%	44%	37%
Trenton 5	22%	57%	35%	11%	0%	0%	0%	0%	0%	0%	35%	15%	14%
Trenton 6	81%	62%	89%	78%	53%	31%	27%	0%	48%	14%	65%	67%	51%
Tufts Cove 1	30%	78%	13%	83%	35%	85%	48%	0%	28%	88%	78%	37%	50%
Tufts Cove 2	56%	54%	56%	72%	66%	31%	50%	65%	63%	20%	0%	26%	47%
Tufts Cove 3	58%	44%	60%	0%	46%	56%	62%	72%	70%	24%	61%	54%	51%
Total Thermal													
Burnside	2%	4%	0%	1%	0%	1%	0%	0%	0%	0%	0%	1%	1%
LM 6000 Tufts Cove 4	69%	65%	70%	37%	24%	58%	62%	66%	69%	68%	65%	74%	61%
LM 6000 Tufts Cove 5	75%	72%	72%	68%	51%	27%	58%	52%	66%	62%	66%	72%	62%
LM6000 Tufts Cove 6	51%	39%	42%	32%	12%	12%	30%	30%	40%	34%	42%	52%	35%
Tusket	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Victoria Junction	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Total CTs													
Hydro													
Wind													
Tidal													
Biomass													
Solar													
IPP Other													
Maritime Link													
Maritime Link EAA (Surplus)													
Other Imports													
Battery													
Total													

Capacity Factor	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	To Date
Lingan 1	73%	52%	46%										57%
Lingan 2	20%	31%	0%										16%
Lingan 3	74%	64%	20%										52%
Lingan 4	53%	48%	21%										40%
Point Aconi	87%	77%	70%										77%
Point Tupper	83%	57%	29%										56%
Trenton 5	47%	59%	12%										38%
Trenton 6	78%	44%	41%										54%
Tufts Cove 1	30%	27%	42%										32%
Tufts Cove 2	36%	69%	78%										60%
Tufts Cove 3	65%	60%	56%										60%
Total Thermal													
Burnside	2%	2%	1%										0%
LM 6000 Tufts Cove 4	68%	74%	73%										0%
LM 6000 Tufts Cove 5	73%	76%	69%										0%
LM6000 Tufts Cove 6	47%	52%	49%										0%
Tusket	0%	0%	0%										0%
Victoria Junction	0%	1%	0%										0%
Total CTs													
Hydro													
Wind													
Tidal													
Biomass													
Solar													
IPP Other													
Maritime Link													
Maritime Link Imports													
Other Imports													
Battery													
Total													

Capacity Factor	Jan-30	Feb-30	Mar-30	Apr-30	May-30	Jun-30	Jul-30	Aug-30	Sep-30	Oct-30	Nov-30	Dec-30	Annual
Lingan 1 (oil)	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	1%
Lingan 2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lingan 3 (oil)	6%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	1%
Lingan 4 (oil)	4%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	2%
Point Aconi	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Point Tupper (nat gas)	10%	1%	1%	0%	0%	0%	2%	4%	1%	0%	4%	2%	2%
Trenton 5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Trenton 6	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Tufts Cove 1	8%	7%	0%	0%	0%	4%	21%	11%	2%	3%	0%	0%	5%
Tufts Cove 2	39%	19%	4%	0%	9%	10%	52%	42%	22%	15%	7%	19%	20%
Tufts Cove 3	48%	36%	14%	9%	26%	34%	55%	54%	19%	6%	26%	31%	30%
Total Thermal													
Burnside	3%	7%	2%	0%	0%	0%	1%	0%	1%	0%	4%	5%	2%
LM 6000 Tufts Cove 4	81%	65%	71%	70%	45%	15%	73%	77%	61%	56%	75%	56%	62%
LM 6000 Tufts Cove 5	79%	64%	73%	68%	59%	41%	34%	76%	56%	63%	67%	65%	62%
LM6000 Tufts Cove 6	56%	46%	46%	48%	47%	11%	49%	54%	39%	43%	50%	45%	45%
Tusket	0%	2%	3%	0%	0%	0%	0%	0%	0%	0%	1%	2%	1%
Victoria Junction	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
New CT's (450 MW)	4%	5%	2%	5%	5%	9%	6%	6%	10%	4%	3%	4%	5%
Total CTs													
Hydro													
Wind													
Tidal													
Biomass													
Solar													
IPP Other													
Maritime Link													
Maritime Link Imports													
Other Imports													
Battery													
Total													

REDACTED

Request DR-3:

From the 2024 Load Forecast (released recently as part of another proceeding, but for the purposes of supporting analysis in this one):

(a) Please provide the underlying data for the 2024 load forecast (GWh and MW) for each of the P10, P50 and P90 scenarios by rate class for the years 2024 and 2030 (in a manner that corresponds to data inputs for COSS – i.e. at generation vs. at metre depending on which NSPI uses)

(i) For Large industrial customers, please split by firm and interruptible.

Response DR-3:

(a) Please refer to Partially Confidential Attachment 1 for class level sales (GWh) scenarios and total demand (MW). All values are at the meter. NS Power does not produce scenarios for demand by rate class as the peak demand model only forecasts system peak demand. In the sales table adding all class-level values will not necessarily align with total sales for each scenario as NS Power used historical correlations among some of the weather months and some annual economic indicators that results in slight differences compared to the totals.

(i) The Large Industrial sales presented in Partially Confidential Attachment 1 are split by firm and interruptible but are not modeled at the P10/P50/P90 level. The demand forecast is not split between firm and interruptible in these scenarios.

Year	Residential			Small General			General Demand			Small Industrial		
	p10	p50	p90	p10	p50	p90	p10	p50	p90	p10	p50	p90
2024	5,034.2	5,208.7	5,387.3	331.5	340.6	350.1	2,311.0	2,359.0	2,409.1	255.9	257.1	258.4
2025	5,088.8	5,268.0	5,453.4	330.4	340.5	350.9	2,277.0	2,336.0	2,395.2	253.1	255.9	258.9
2026	5,054.7	5,236.8	5,423.1	330.2	341.4	352.8	2,204.9	2,273.2	2,343.7	254.6	258.6	262.8
2027	5,082.0	5,267.1	5,457.1	337.0	349.0	361.5	2,218.2	2,293.7	2,373.7	256.0	261.0	266.3
2028	5,148.2	5,338.8	5,532.6	347.0	360.2	373.8	2,253.1	2,336.9	2,425.0	258.1	263.9	270.3
2029	5,187.4	5,382.4	5,579.6	356.2	370.4	385.0	2,281.7	2,373.0	2,470.5	260.4	267.0	274.5
2030	5,248.8	5,449.9	5,652.2	366.9	382.4	398.3	2,314.1	2,414.1	2,521.0	262.6	270.2	278.6

Year	Medium industrial			Large General Sales	Large Industrial Firm Sales	L.I. Interruptible Sales	RTP	GR & LF	Shore Power	PHP - LRT	Municipal
	p10	p50	p90							Not modeled classes	
2024	467.9	473.8	480.0	367.7	83.2	602.7	[redacted]	18.4	[redacted]		129.1
2025	435.0	448.7	462.9	369.2	97.4	596.7		18.4			42.2
2026	433.4	452.1	471.5	366.9	97.4	616.1		18.4			42.2
2027	431.6	454.4	478.1	370.0	97.4	616.5		18.4			43.2
2028	430.9	456.1	484.1	370.0	97.4	616.5		18.4			44.0
2029	430.7	459.4	491.0	370.0	97.4	616.5		18.4			44.6
2030	431.5	462.9	498.0	370.0	97.4	616.5		18.4			45.3

Year	BUTU	EBS	Unmetered	Transmission Losses	Distribution Losses	Total Sales before DSM		
						p10	p50	p90
2024	30.3	-	76.9	299.3	473.7	11,320.8	11,549.9	11,784.2
2025	30.3	20.7	76.9	299.1	476.3	11,270.3	11,504.6	11,749.2
2026	30.3	99.5	76.9	298.6	470.3	11,260.5	11,503.4	11,754.7
2027	30.3	139.0	76.9	301.9	473.9	11,367.3	11,619.4	11,878.5
2028	30.3	139.0	76.9	306.0	481.1	11,504.6	11,763.2	12,028.9
2029	30.3	139.0	76.9	309.0	486.2	11,599.2	11,870.0	12,141.8
2030	30.3	139.0	76.9	312.8	492.9	11,725.3	12,005.1	12,291.5

Year	p10	p50	p90
2024	2,265.4	2,437.7	2,652.8
2025	2,314.4	2,492.4	2,713.7
2026	2,344.1	2,526.2	2,752.8
2027	2,370.9	2,553.9	2,781.3
2028	2,411.4	2,598.5	2,830.5
2029	2,457.1	2,646.1	2,881.2
2030	2,513.7	2,713.0	2,961.0

REDACTED

Request DR-4:

Maritime Link – this topic seems to have been covered in depth in other proceedings but for the relevance of forward-looking COSS methodology:

(a) High level explanation of the different streams of energy received (Nova Scotia block, supplemental block, surplus energy) including contract parameters for each.

(i) Any changes in 2024 vs. 2030?

(ii) Specifically for surplus energy (treated like non-firm imports)

(1) Is this cost in the FAM allocated based on class monthly responsibility (same as fuel)? If not please explain.

(b) Forecast assumptions for each type of ML purchase (load profiles by month) and for longer-term planning purposes (including how forecast assumptions change for changing load requirements/supply constraints such as P10 vs P90).

Response DR-4:

(a) The streams of energy received from Maritime Link are as follows:

- NS Block is firm, capacity backed, energy which include renewable attributes. This energy is approximately 153 MW per hour during the on peak hours (hour ending 8 through hour ending 23), 365 days a year. This energy is available for the term of the contract, 35 years.

- Supplemental energy is firm, capacity backed, energy which flows during the off peak hours (hour ending 24 through hour ending 7) during the winter months of November through to and including March. This energy includes renewable attributes. This energy is delivered during the first 5 years of the contract only. This energy is expected to conclude at the end of March 2027.

- Surplus energy or energy associated with the Energy Access Agreement (EAA), is market-based, non-firm energy which is offered upon NS Power annual solicitation. This energy is dispatched based on economics and can be adjusted based on the scheduling protocol included in the EAA. This energy is subject to an average 1.2 TWh annual requirement over the term of contract.

(i) It is expected that Supplemental block energy will be complete by the end of March 2027. Surplus energy will differ, by year, based on what is offered by NLH per the annual solicitation and by the requirement to offer an average of 1.2 TWh per year on average over the term of the Energy Access Agreement.

(ii) Surplus energy is treated in the same manner as other energy imports of NS Power. They are allocated to rate classes based on class shares in system monthly energy requirements.

(b) The forecast assumptions for each type of Maritime Link energy follow the agreements. These assumptions are used for long term planning purposes and are described below. The figure below shows sample monthly load profiles.

1. ML Base Block: 895 GWh of energy per year, delivered on peak, 16 hours per day (7am - 11pm). The monthly load profile does not change between years.

2. ML Supplemental Block: 240 GWh of energy per year, delivered off-peak, 8 hours per day (11pm – 7 am), November to March. The monthly load profile remains the same until it ends on April 1, 2027.

3. ML Surplus Energy (EAA): 1200 GWh of energy per year purchased at market price. The monthly load profile can change year to year until it ends in 2041, based on forecasted load and economic dispatch of available resources. The figure below shows a sample year for Surplus Energy.

REDACTED

Monthly Load Profiles

Month	Base Block Energy (GWh)	Supplemental Block (GWh)	Surplus Energy (GWh) [Sample]
January	76	49	[redacted]
February	69	45	
March	76	49	
April	74	0	
May	76	0	
June	74	0	
July	76	0	
August	76	0	
September	74	0	
October	76	0	
November	74	48	
December	76	49	
Total	**895**	**240**	

Request DR-5:

In NSPI's Initial Position document from 2024-04-18, as a potential solution within issue #1a NSPI identifies a COS treatment for assets that are expected to operate at a significantly different capacity factor after 2030, specifically an 'intermediate generation' based on NARUC definition of load duration between 1,500 – 4,000 hours/year.

(a) Please identify the assets and definitional considerations that NSPI might propose for an intermediate generation category of generation assets including the supply load characteristics before and after 2030.

(b) Please provide the combined capacity factor and individual ELCC factors for each asset identified (i.e. the resulting energy/demand classification weightings).

(c) What does NSPI consider to be 'significant' capacity factor changes?

Response DR-5:

(a) Please refer to PHP DR-8.

(b) Please refer to PHP DR-1 Attachment 1 for forecast capacity factors from 2025 to 2050 for existing steam-thermal generation units based on the scenario CE1-E1-R2 from the 2022 Evergreen IRP.

Please refer to PHP DR-3 for the ELCC factors for the different generation types. NS Power does not have ELCC values for individual units.

(c) These matters have not been definitively determined at this point. Any changes in classification of such units going forward will include discussion with stakeholders. Broadly speaking, NS Power considers capacity factor changes to be significant if they

change by an order of magnitude which makes them transition from one type of generation to another, such as from peak load to intermediate load generation or vice versa. For example, a peaking unit historically operated at a capacity factor of less than 5 percent, which will in the future be operated at a 17 percent capacity factor or higher, could see a portion of its costs reclassified to energy. Likewise, a LM6000 unit operated at a capacity factor of less than 17 percent could be considered a peaking unit having all its costs classified to demand provided it has fast acting generation capabilities.

REDACTED

Request DR-6:

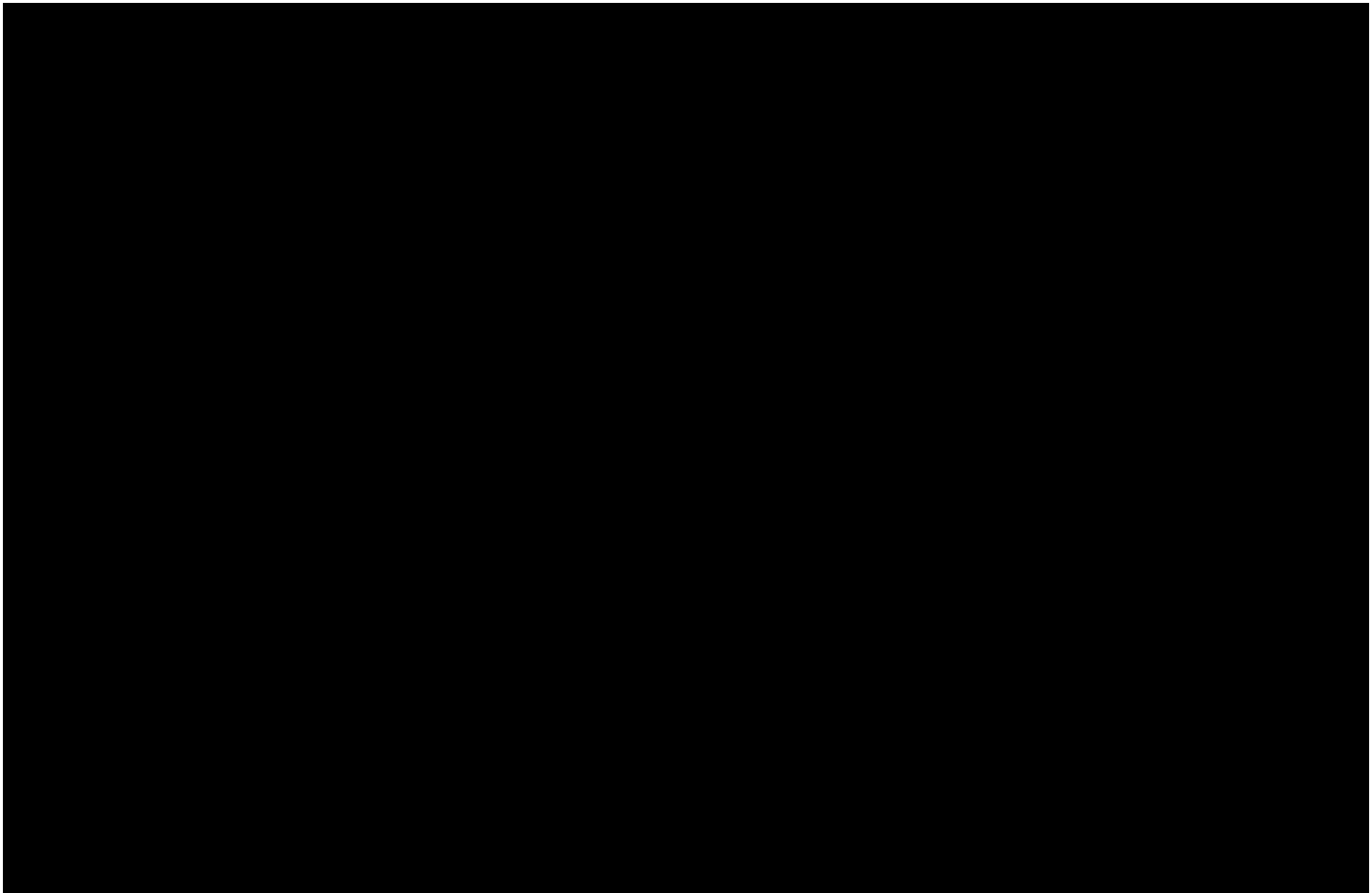
Pursuant to the discussion at Stakeholder Session #6, we had highlighted some data needs to assess the EHV/HV issue. An example of Newfoundland Hydro's documentation of its transmission assignment and classification was provided, in graphical form (both geographic maps and simplified Single Line Diagram) that sets out the key COS considerations for their transmission system.[1] Without being too prescriptive as to exactly what NSP could/may be able to produce, similar information on the NSP transmission system, showing which components are EHV vs HV and the location and connection points of major loads and generators, would be helpful.

Response DR-6:

Please refer to Confidential Attachment 1 for the 2024 Major Facilities Map.

Please refer to Confidential Attachment 2 for a simplified one-line diagram.

[1] Link: see pdf page 79-80: http://www.pub.nf.ca/applications/ARCHIVE/2013/NLH2013GRA-Amended/files/application/NLH-2013-GRA-Application-Volume-2-AMENDED-2014-11-10.pdf



[redacted]

NON-CONFIDENTIAL

Request DR-7:

(a) Please provide the benchmark Long Range Marginal Cost (LRMC) that NSPI uses to forecast the cost of electricity supply in its most recent IRP update, for each of energy and capacity. Please also provide the corresponding LRMC for the Evergreen IRP scenario CE1-E1-R2 (net zero 2035, current policy and trends for electrification, no Atlantic Loop).

(b) If NSPI's LRMC values provided above are a present valued figure, please provide the corresponding annualized values and discount rate.

Response DR-7:

(a) Long Range Marginal Cost is not a value NS Power uses or calculates in its long-term planning exercises. Candidate resources made available to meet the energy and capacity needs of the province have capital build costs, and fixed and variable costs for their operation. The modeling software considers both the build and operating costs in selecting the optimal mix of resources to provide the lowest cost solution within the constraints of a given scenario. Details on the capital and operating cost assumptions used in the IRP can be found at https://www.nspower.ca/irp/document-library, document title: 2022 Evergreen IRP Updated Assumptions January 2023 Update, slides 17 and 18.

In general, in the "No Atlantic Loop" scenarios, including CE1-E1-R2, wind generation is built to meet the renewable energy needs in the province and frame CTs are built to provide capacity. These two generation assets would be the best proxy for a Long Range Marginal Cost for energy and capacity. The levelized cost of energy for onshore wind farms in the IRP was $41.86 / MWh in 2022 dollars with the impact of investments tax credits included, and the levelized cost of capacity for a Frame CT in the 2022 Evergreen IRP was $128.01/kW-yr (in 2022 dollars)

(b) The assumed discount rate is 6.34 percent which was NS Powers WACC at the time the IRP assumptions were developed.

Request DR-8:

2024 10-Year System Outlook
Non-Confidential

Figure 5: Firm Capacity Changes & DSM

New Resources 2025-2034	Net MW
DSM Peak reduction	241
Demand Response (Firm contribution)[15]	38
Total Demand Side MW Change Projected Over Planning Period	**279**
Maintenance/Repairs:	
Hydro derates during Wreck Cove LEM	-101
Wreck Cove LEM Completion	101
Additions:	
Biomass[16]	43
Tidal (Firm Capacity)	1
New Wind Build - Rate Base Procurement (Firm Capacity)	31
New Wind Build - Green Choice Program (Firm Capacity)	33
Port Hawkesbury Paper Wind (Firm Capacity)	17
New Wind Build – Future Procurements (Firm Capacity)[17]	60
New Renewable to Retail Wind	15
Battery (Firm Capacity)	180
Diversity Credit (Solar + BESS)	12
Point Tupper 2 Coal-to-Gas conversion	150
Fast Acting Generation	600
Additions - Coal to HFO Operation (Lingan 1, 3 & 4 Conversions)	459
Retirements:	
Trenton 5 & 6	-304
Lingan 1, 3 & 4 (Coal Operation), Lingan 2	-607
Point Tupper (Coal Operation)	-150
Point Aconi	-168
Total Firm Supply MW Change Projected over Planning Period	**372**

Page 16 of 67 from NSPI's 2024 10-year system outlook is based on NSPI's most recent IRP scenario CE1-E1-R2 (net zero 2035, current policy and trends for electrification, no Atlantic Loop). Figure 5 is pasted above and provides the planned capacity additions for the next 10 years. Please provide a version of this figure that sorts the capacity additions from least forecast cost to highest forecast cost on a $/MW basis (in a manner that compares to the monthly Interruptible credit value derived from a CT peaking unit). Please also include a column that shows the planned timing for each capacity addition.

Response DR-8:

The list of resource additions provided in Figure 5 of the 10 Year System Outlook is a summary of the firm capacity contributions from resource additions over the 2025-2034 period. Most of the resources listed in Figure 5 will be added to meet the renewable energy requirements of the province and only a portion of the nameplate capacity is counted as firm capacity. Renewable generation resources like wind and solar, primarily added to provide renewable energy, do not fill the same role as combustion turbines or the interruptible rate, whose primary purpose is to provide capacity to meet system demand.

As the costs for many of the projects listed in Figure 5 from the 2024 10 Year System Outlook are unknown the levelized cost per kW-year for candidate resources from the 2022 Evergreen IRP has been provided. This list of candidate resources matches the resource types that make up the resource additions in Figure 5 of the 2024 10 Year System Outlook.

Technology	Levelized $/kW-yr ($2021)	Levelized $/kW-yr with 20% PRM ($2021)	Year of first resource addition in 2024 10YSO
Coal to HFO	$24.88	$29.85	2029
Coal to Gas - Point Tupper	$67.82	$81.38	2028
Solar PV (tracking)	$110.58	$132.70	2026
Combustion Turbine - Frame	$124.31	$149.17	2027
Wind (onshore)	$138.14	$165.77	2025
Li-ion Battery (4 hour)	$214.14	$256.97	2025

Assumptions:

- The values in the table are calculated using a WACC of 6.475 percent to match the WACC used in most recent update of the Interruptible credit.

- Capital costs match 2022 Evergreen assumptions.
- All dollar amounts in the table are in 2021 dollars. 2022 Evergreen IRP assumptions were adjusted from 2022 dollars to 2021 dollars using an inflation rate of 4.06 percent.
- For solar PV, wind, and Li-ion batteries the values include the effects of the current Clean Technology Investment Tax Credit (ITC)
- Values in the table are calculated based on nameplate capacity

Of note, the current interruptible credit of 130.99 per kW-yr differs to the levelized cost per kW-year shown in the table for a Frame CT because the current credit was calculated in 2021 using assumptions from the 2020 IRP and the table reflects the refreshed capital costs used in the 2022 Evergreen IRP.

Request DR-9:

Based on Figure 5, explain whether the benchmark used for the current interruptible credit - the cost of a combustion turbine (CT) peaking unit - aligns with NSPI's planned capacity additions as per the 10-year system outlook and Evergreen IRP.

Response DR-9:

The cost of a combustion turbine peaking unit remains aligned with NS Power's planned capacity additions as per the 10 Year System Outlook and Evergreen IRP, when the primary purpose of the system is capacity to meet firm demand.

Many of the capacity figures listed in Figure 5 represent the firm capacity contributions from renewable resources to be developed to meet Renewable Energy Standard (RES) requirements and the capacity values listed in Figure 5 represent a fraction of the total installed capacity for each project. Therefore, it is not appropriate to compare the cost of and capacity contribution from renewables to that of a combustion turbine or the interruptible credit.

NON-CONFIDENTIAL

Request DR-10:

Please provide the details that go into calculating the current Interruptible credit based on the cost of a CT peaking unit.

- **Does the current interruptible credit pricing based on a CT peaking unit include estimates for avoided carbon tax? If not, please explain why not.**

Response DR-10:

The full calculation of the current interruptible credit was provided during the 2023-2024 General Rate Application (M10431) in SR-01 Attachment 5 (please refer to Attachment 1).

No, the current interruptible credit does not include estimates for avoided carbon tax.

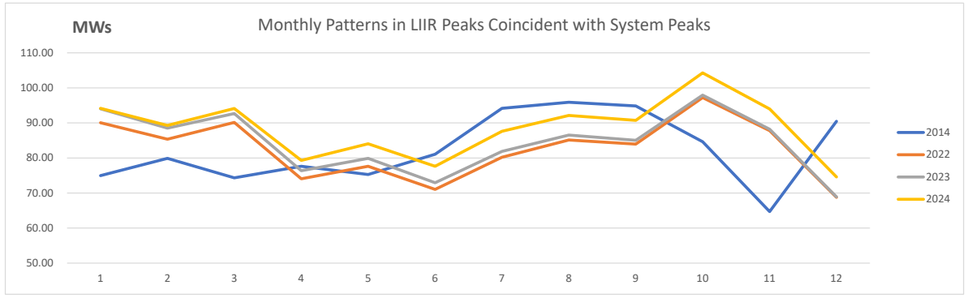
Consistent with the objectives of the interruptible credit, which is to compensate interruptible customers for standing by ready to interrupt their load, when called upon, for reasons of system reliability rather than avoidance of hourly energy system costs, the value of the interruptible credit reflects only the marginal avoided generation capacity costs. These costs are determined using the peaker deferral method which does not take into account the avoided cost of energy, and therefore carbon tax. In addition, in view of the fact that the avoided energy costs associated with the interrupted load are very small compared to the avoided system generation capacity costs, they do not warrant separate pricing treatment in the design of the credit.

Preliminary Interruptible Credit Calculations for test years 2022 - 2024

	1996 GRA	2013 GRA	2022 GRA	2023 GRA	2024 GRA
Determination of Unit Avoided Marginal Generation Capacity Cost					
Annual Cost of Load Served ($/kW, in 1994 dollars)	($60.625)	($60.625)	NA	NA	NA
Annual Cost of Load Served ($/kW, in 1994 dollars) adjusted for annual inflation of 2%	($63.074)	($63.074)	NA	NA	NA
Annual Avoided Cost rounded to nearest dollar in 1996	($63.000)	($63.000)	($130.978)	($130.978)	($130.978)
% Change from 1996 Benchmark		0.0%	107.9%	107.9%	107.9%
Determination of Intrruptible Credit					
System Coincident Demand (kVA)	202,000	79,894	90,060	94,030	94,160
Total Annual Avoided Cost	($12,726,000)	($5,033,294)	($11,795,850)	($12,315,831)	($12,332,858)
Annual total of monthly non-coincident kVA demands	3,700,000	1,595,907	1,592,284	1,645,190	1,698,121
Interruptible Credit ($/kVA/month)	**($3.430)**	**($3.430)**	**($7.408)**	**($7.486)**	**($7.263)**
		0.0%	116.0%	118.2%	111.7%
Anticipated Revenue Credit	($12,691,000)	($5,473,962)	($11,795,850)	($12,315,831)	($12,332,858)
Variance between Allocated Costs and Anticipated Credit payout	$35,000	($440,668)	$0	$0	$0
Excess Credit Paid as a % of total avoided costs	-0.3%	8.8%	0.0%	0.0%	0.0%

Test Year Volatility in Large Industrial Interruptible Customers' Monthly Demands Coincident with System Peaks (MWs)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Demand coincident with System	Test Year Annual System Peak Month	Maximum Coincident Demand
2014	74.96	79.89	74.34	77.62	75.27	81.05	94.15	95.90	94.84	84.66	64.71	90.48	**79.89**	February	95.90
2022	90.06	85.35	90.13	74.06	77.64	71.02	80.22	85.13	83.96	97.23	87.82	68.77	**90.06**	January	97.23
2023	94.03	88.51	92.68	76.35	79.91	72.93	81.88	86.54	85.05	97.93	88.20	68.90	**94.03**	January	97.93
2024	94.16	89.29	94.14	79.29	84.04	77.63	87.64	92.12	90.75	104.28	93.99	74.59	**94.16**	January	104.28



Input Assumptions
1. Capital costs are for a 50MW combustion Turbine (Frame) from E3 Resource Option Study using 2021 nominal values;
2. Fixed Operating costs are derived from E3 Resource Option Study using 2021 nominal values
3. Screening level costing assumes AFUDC is incorporated into System Cost (capital cost)
4. No cost assumptions for Administrative Overhead
5. Pro Forma statement and associated accounting treatments are simplified for screening purposes - reflecting substantially NSPI's accounting treatments and costs of capital for new generation resources;
6. FO&M costs are escalated annually at 2%

Peaker Deferral Method
Summary Outputs
Updated 7/12/2021

Year	Equivalent Escalating Series ($/kW-Yr)	Levelized ($/kW-Yr)
2021	$ 101.44	$ 130.98
2022	$ 103.47	$ 130.98
2023	$ 105.54	$ 130.98
2024	$ 107.65	$ 130.98
2025	$ 109.81	$ 130.98
2026	$ 112.00	$ 130.98
2027	$ 114.24	$ 130.98
2028	$ 116.53	$ 130.98
2029	$ 118.86	$ 130.98
2030	$ 121.24	$ 130.98
2031	$ 123.66	$ 130.98
2032	$ 126.13	$ 130.98
2033	$ 128.66	$ 130.98
2034	$ 131.23	$ 130.98
2035	$ 133.85	$ 130.98
2036	$ 136.53	$ 130.98
2037	$ 139.26	$ 130.98
2038	$ 142.05	$ 130.98
2039	$ 144.89	$ 130.98
2040	$ 147.79	$ 130.98
2041	$ 150.74	$ 130.98
2042	$ 153.76	$ 130.98
2043	$ 156.83	$ 130.98
2044	$ 159.97	$ 130.98
2045	$ 163.17	$ 130.98

Peaker Deferral Method (PDM) - Simplified Pro Forma Model

Resource Cost, Performance, & Financing

System Cost	2021
System Size (MW)	50
System Cost ($/kW)	$1,118
System Cost ($)	$55,903,798
Total System Cost ($)	$55,903,798

Performance Inputs	
System Depreciable Lifetime	35

Ongoing Costs	
Fixed O&M Costs ($/kW-yr)	$17.69
Fixed O&M Costs Escalator (%/yr)	2.00%

Income Tax Assumptions	
Income Tax - Statutory Tax Rate	29.00%
Capital Cost Allowance (CCA)	17 - 8%

Vintage	
Available Year	2021

Financing	
% Financed w/ equity	37.5%
% Financed w/ debt	62.5%
Debt Interest rate	4.96%
Cost of Equity	9.0%
Debt period in years	35
Pre-tax WACC	6.48%
Inflation Rate	2.00%
Equity Amount	$20,963,924
Debt Amount	$34,939,874

Outputs	Equiv. Escalating (2021) $/kW-yr	Levelized $/kW-yr
Capital	$81.49	$ 105.21
Current Tax Savings	($14.64)	-$ 18.90
Fixed O&M	$17.69	$ 22.84
Total	**$84.54**	**$109.15**
PRM Adjustment (20% adder)	**$ 101.44**	**$ 130.98**

IOU Pro Forma

Year	0	1	2	3	4	5	6	7	8	9	10	11
Debt Term Flag		1	1	1	1	1	1	1	1	1	1	1
Capital Cost		$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798
Starting Rate Base		$55,903,798	$55,903,798	$52,709,295	$51,112,044	$49,514,792	$47,917,541	$46,320,290	$44,723,038	$43,125,787	$41,528,536	$39,931,284
Accumulated Depreciation			($3,194,503)	($4,791,754)	($6,389,005)	($7,986,257)	($9,583,508)	($11,180,760)	($12,778,011)	($14,375,262)	($15,972,514)	($17,569,765)
Ending Balance Rate Base	$55,903,798	$55,903,798	$52,709,295	$51,112,044	$49,514,792	$47,917,541	$46,320,290	$44,723,038	$43,125,787	$41,528,536	$39,931,284	$38,334,033
Debt												
Beginning Balance		$34,939,874	$34,939,874	$32,943,309	$31,945,027	$30,946,745	$29,948,463	$28,950,181	$27,951,899	$26,953,617	$25,955,335	$24,957,053
Interest		$1,733,018	$1,733,018	$1,633,988	$1,584,473	$1,534,959	$1,485,444	$1,435,929	$1,386,414	$1,336,899	$1,287,385	$1,237,870
Principal		$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282
Equity												
Beginning Balance		$20,963,924	$20,963,924	$19,765,986	$19,167,016	$18,568,047	$17,969,078	$17,370,109	$16,771,139	$16,172,170	$15,573,201	$14,974,232
Equity Return		$1,886,753	$1,886,753	$1,778,939	$1,725,031	$1,671,124	$1,617,217	$1,563,310	$1,509,403	$1,455,495	$1,401,588	$1,347,681
Return of Invested Equity		$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969
Book Equity Return		$2,485,722	$2,485,722	$2,377,908	$2,324,001	$2,270,094	$2,216,186	$2,162,279	$2,108,372	$2,054,465	$2,000,557	$1,946,650
Taxes												
Equity Return		$1,886,753	$1,886,753	$1,778,939	$1,725,031	$1,671,124	$1,617,217	$1,563,310	$1,509,403	$1,455,495	$1,401,588	$1,347,681
Tax on Equity Return		$547,158	$547,158	$515,892	$500,259	$484,626	$468,993	$453,360	$437,727	$422,094	$406,461	$390,827
Tax Grossup - Equity		$223,487	$223,487	$210,717	$204,331	$197,946	$191,560	$185,175	$178,790	$172,404	$166,019	$159,634
Revenue Requirement												
Fixed O&M		$902,027	$920,067	$938,469	$957,238	$976,383	$995,910	$1,015,829	$1,036,145	$1,056,868	$1,078,006	$1,099,566
Interest		$1,733,018	$1,733,018	$1,633,988	$1,584,473	$1,534,959	$1,485,444	$1,435,929	$1,386,414	$1,336,899	$1,287,385	$1,237,870
Equity Return		$1,886,753	$1,886,753	$1,778,939	$1,725,031	$1,671,124	$1,617,217	$1,563,310	$1,509,403	$1,455,495	$1,401,588	$1,347,681
Depreciation		$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251
Tax grossup - Depreciation		$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398
Impact of CCA deduction		($2,740,073)	($1,607,510)	($1,478,909)	($1,360,596)	($1,251,749)	($1,151,609)	($1,059,480)	($974,722)	($896,744)	($825,004)	($759,004)
Tax on Equity Return - before grossup		$547,158	$547,158	$515,892	$500,259	$484,626	$468,993	$453,360	$437,727	$422,094	$406,461	$390,827
Tax Grossup - Equity		$223,487	$223,487	$210,717	$204,331	$197,946	$191,560	$185,175	$178,790	$172,404	$166,019	$159,634
Total Revenue Requirement		**$4,802,020**	**$5,952,624**	**$5,848,745**	**$5,860,387**	**$5,862,939**	**$5,857,166**	**$5,843,772**	**$5,823,407**	**$5,796,667**	**$5,764,103**	**$5,726,223**
Accumulated Deferred Income Tax												
Book Depreciation		$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251
CCA Schedule		12.00%	7.04%	6.48%	5.96%	5.48%	5.04%	4.64%	4.27%	3.93%	3.61%	3.32%
CCA Depreciation		$6,708,456	$3,935,627	$3,620,777	$3,331,115	$3,064,626	$2,819,456	$2,593,899	$2,386,387	$2,195,476	$2,019,838	$1,858,251
CCA Tax Savings		($2,740,073)	($1,607,510)	($1,478,909)	($1,360,596)	($1,251,749)	($1,151,609)	($1,059,480)	($974,722)	($896,744)	($825,004)	($759,004)
Check of Book Taxes												
Revenue		$4,802,020	$5,952,624	$5,848,745	$5,860,387	$5,862,939	$5,857,166	$5,843,772	$5,823,407	$5,796,667	$5,764,103	$5,726,223
Expenses		$902,027	$920,067	$938,469	$957,238	$976,383	$995,910	$1,015,829	$1,036,145	$1,056,868	$1,078,006	$1,099,566
Operating Profit		$3,899,993	$5,032,557	$4,910,276	$4,903,149	$4,886,556	$4,861,255	$4,827,944	$4,787,261	$4,739,799	$4,686,098	$4,626,658
Interest		$1,733,018	$1,733,018	$1,633,988	$1,584,473	$1,534,959	$1,485,444	$1,435,929	$1,386,414	$1,336,899	$1,287,385	$1,237,870
Book Depreciation		$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251
Income		$569,724	$1,702,288	$1,679,037	$1,721,424	$1,754,346	$1,778,560	$1,794,763	$1,803,596	$1,805,648	$1,801,462	$1,791,536
Taxes		($1,317,029)	($184,466)	($99,902)	($3,608)	$83,222	$161,343	$231,453	$294,193	$350,153	$399,874	$443,856
After-tax income		$1,886,753	$1,886,753	$1,778,939	$1,725,031	$1,671,124	$1,617,217	$1,563,310	$1,509,403	$1,455,495	$1,401,588	$1,347,681
Check of book equity return												
Earnings		$1,886,753	$1,886,753	$1,778,939	$1,725,031	$1,671,124	$1,617,217	$1,563,310	$1,509,403	$1,455,495	$1,401,588	$1,347,681
Book Equity		$20,963,924	$20,963,924	$19,765,986	$19,167,016	$18,568,047	$17,969,078	$17,370,109	$16,771,139	$16,172,170	$15,573,201	$14,974,232
ROE		9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%
Rev Requirement by Functional Category												
Capital Costs		$6,640,066	$6,640,066	$6,389,185	$6,263,745	$6,138,304	$6,012,864	$5,887,424	$5,761,983	$5,636,543	$5,511,102	$5,385,662
CCA Tax Savings		($2,740,073)	($1,607,510)	($1,478,909)	($1,360,596)	($1,251,749)	($1,151,609)	($1,059,480)	($974,722)	($896,744)	($825,004)	($759,004)
Fixed Operations & Maintenance		$902,027	$920,067	$938,469	$957,238	$976,383	$995,910	$1,015,829	$1,036,145	$1,056,868	$1,078,006	$1,099,566
Total		$4,802,020	$5,952,624	$5,848,745	$5,860,387	$5,862,939	$5,857,166	$5,843,772	$5,823,407	$5,796,667	$5,764,103	$5,726,223
CHECK		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Discount Rate	6.48%
Real Discount Rate	4.39%
NPV Capacity (Real) - Equiv. Escal. Series	886,085
NPV Capacity (Nominal) - Levelized	686,287

Canadian Capital Cost Allowance (CCA) Schedules

CCA Schedules (Class - DB %)	Term	Start Year	End Year	This Schedule?	1	2	3	4	5	6	7	8
	17 - 8%	2018	2023	Y	12%	7%	6%	6%	5%	5%	5%	4%

Peaker Deferral Method (PDM) -

Year	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Debt Term Flag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Capital Cost	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798
Starting Rate Base	$38,334,033	$36,736,781	$35,139,530	$33,542,279	$31,945,027	$30,347,776	$28,750,525	$27,153,273	$25,556,022	$23,958,771	$22,361,519	$20,764,268	$19,167,016	$17,569,765	$15,972,514	$14,375,262	$12,778,011	$11,180,760	$9,583,508
Accumulated Depreciation	($19,167,016)	($20,764,268)	($22,361,519)	($23,958,771)	($25,556,022)	($27,153,273)	($28,750,525)	($30,347,776)	($31,945,027)	($33,542,279)	($35,139,530)	($36,736,781)	($38,334,033)	($39,931,284)	($41,528,536)	($43,125,787)	($44,723,038)	($46,320,290)	($47,917,541)
Ending Balance Rate Base	$36,736,781	$35,139,530	$33,542,279	$31,945,027	$30,347,776	$28,750,525	$27,153,273	$25,556,022	$23,958,771	$22,361,519	$20,764,268	$19,167,016	$17,569,765	$15,972,514	$14,375,262	$12,778,011	$11,180,760	$9,583,508	$7,986,257
Debt																			
Beginning Balance	$23,958,771	$22,960,488	$21,962,206	$20,963,924	$19,965,642	$18,967,360	$17,969,078	$16,970,796	$15,972,514	$14,974,232	$13,975,949	$12,977,667	$11,979,385	$10,981,103	$9,982,821	$8,984,539	$7,986,257	$6,987,975	$5,989,693
Interest	$1,188,355	$1,138,840	$1,089,325	$1,039,811	$990,296	$940,781	$891,266	$841,751	$792,237	$742,722	$693,207	$643,692	$594,178	$544,663	$495,148	$445,633	$396,118	$346,604	$297,089
Principal	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282	$998,282
Equity																			
Beginning Balance	$14,375,262	$13,776,293	$13,177,324	$12,578,355	$11,979,385	$11,380,416	$10,781,447	$10,182,477	$9,583,508	$8,984,539	$8,385,570	$7,786,600	$7,187,631	$6,588,662	$5,989,693	$5,390,723	$4,791,754	$4,192,785	$3,593,816
Equity Return	$1,293,774	$1,239,866	$1,185,959	$1,132,052	$1,078,145	$1,024,237	$970,330	$916,423	$862,516	$808,609	$754,701	$700,794	$646,887	$592,980	$539,072	$485,165	$431,258	$377,351	$323,443
Return of Invested Equity	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969	$598,969
Book Equity Return	$1,892,743	$1,838,836	$1,784,928	$1,731,021	$1,677,114	$1,623,207	$1,569,299	$1,515,392	$1,461,485	$1,407,578	$1,353,671	$1,299,763	$1,245,856	$1,191,949	$1,138,042	$1,084,134	$1,030,227	$976,320	$922,413
Taxes																			
Equity Return	$1,293,774	$1,239,866	$1,185,959	$1,132,052	$1,078,145	$1,024,237	$970,330	$916,423	$862,516	$808,609	$754,701	$700,794	$646,887	$592,980	$539,072	$485,165	$431,258	$377,351	$323,443
Tax on Equity Return	$375,194	$359,561	$343,928	$328,295	$312,662	$297,029	$281,396	$265,763	$250,130	$234,496	$218,863	$203,230	$187,597	$171,964	$156,331	$140,698	$125,065	$109,432	$93,799
Tax Grossup - Equity	$153,248	$146,863	$140,478	$134,092	$127,707	$121,322	$114,936	$108,551	$102,166	$95,780	$89,395	$83,010	$76,624	$70,239	$63,853	$57,468	$51,083	$44,697	$38,312
Revenue Requirement																			
Fixed O&M	$1,121,557	$1,143,988	$1,166,868	$1,190,205	$1,214,009	$1,238,289	$1,263,055	$1,288,316	$1,314,083	$1,340,364	$1,367,172	$1,394,515	$1,422,405	$1,450,854	$1,479,871	$1,509,468	$1,539,657	$1,570,450	$1,601,860
Interest	$1,188,355	$1,138,840	$1,089,325	$1,039,811	$990,296	$940,781	$891,266	$841,751	$792,237	$742,722	$693,207	$643,692	$594,178	$544,663	$495,148	$445,633	$396,118	$346,604	$297,089
Equity Return	$1,293,774	$1,239,866	$1,185,959	$1,132,052	$1,078,145	$1,024,237	$970,330	$916,423	$862,516	$808,609	$754,701	$700,794	$646,887	$592,980	$539,072	$485,165	$431,258	$377,351	$323,443
Depreciation	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251
Tax grossup - Depreciation	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398	$652,398
Impact of CCA deduction	($698,284)	($642,421)	($591,027)	($543,745)	($500,246)	($460,226)	($423,408)	($389,535)	($358,372)	($329,703)	($303,326)	($279,060)	($256,735)	($236,197)	($217,301)	($199,917)	($183,923)	($169,210)	($155,673)
Tax on Equity Return - before grossup	$375,194	$359,561	$343,928	$328,295	$312,662	$297,029	$281,396	$265,763	$250,130	$234,496	$218,863	$203,230	$187,597	$171,964	$156,331	$140,698	$125,065	$109,432	$93,799
Tax Grossup - Equity	$153,248	$146,863	$140,478	$134,092	$127,707	$121,322	$114,936	$108,551	$102,166	$95,780	$89,395	$83,010	$76,624	$70,239	$63,853	$57,468	$51,083	$44,697	$38,312
Total Revenue Requirement	**$5,683,494**	**$5,636,348**	**$5,585,181**	**$5,530,360**	**$5,472,223**	**$5,411,082**	**$5,347,226**	**$5,280,919**	**$5,212,408**	**$5,141,919**	**$5,069,662**	**$4,995,831**	**$4,920,605**	**$4,844,152**	**$4,766,624**	**$4,688,165**	**$4,608,907**	**$4,528,974**	**$4,448,479**
Accumulated Deferred Income Tax																			
Book Depreciation	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251
CCA Schedule	3.06%	2.81%	2.59%	2.38%	2.19%	2.02%	1.85%	1.71%	1.57%	1.44%	1.33%	1.22%	1.12%	1.03%	0.95%	0.88%	0.81%	0.74%	0.68%
CCA Depreciation	$1,709,591	$1,572,824	$1,446,998	$1,331,238	$1,224,739	$1,126,760	$1,036,619	$953,690	$877,394	$807,203	$742,627	$683,217	$628,559	$578,274	$532,012	$489,451	$450,295	$414,272	$381,130
CCA Tax Savings	($698,284)	($642,421)	($591,027)	($543,745)	($500,246)	($460,226)	($423,408)	($389,535)	($358,372)	($329,703)	($303,326)	($279,060)	($256,735)	($236,197)	($217,301)	($199,917)	($183,923)	($169,210)	($155,673)
Check of Book Taxes																			
Revenue	$5,683,494	$5,636,348	$5,585,181	$5,530,360	$5,472,223	$5,411,082	$5,347,226	$5,280,919	$5,212,408	$5,141,919	$5,069,662	$4,995,831	$4,920,605	$4,844,152	$4,766,624	$4,688,165	$4,608,907	$4,528,974	$4,448,479
Expenses	$1,121,557	$1,143,988	$1,166,868	$1,190,205	$1,214,009	$1,238,289	$1,263,055	$1,288,316	$1,314,083	$1,340,364	$1,367,172	$1,394,515	$1,422,405	$1,450,854	$1,479,871	$1,509,468	$1,539,657	$1,570,450	$1,601,860
Operating Profit	$4,561,937	$4,492,360	$4,418,313	$4,340,155	$4,258,214	$4,172,793	$4,084,171	$3,992,603	$3,898,325	$3,801,554	$3,702,490	$3,601,316	$3,498,200	$3,393,298	$3,286,754	$3,178,697	$3,069,250	$2,958,524	$2,846,620
Interest	$1,188,355	$1,138,840	$1,089,325	$1,039,811	$990,296	$940,781	$891,266	$841,751	$792,237	$742,722	$693,207	$643,692	$594,178	$544,663	$495,148	$445,633	$396,118	$346,604	$297,089
Book Depreciation	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251
Income	$1,776,331	$1,756,268	$1,731,736	$1,703,093	$1,670,667	$1,634,761	$1,595,653	$1,553,600	$1,508,837	$1,461,581	$1,412,032	$1,360,372	$1,306,771	$1,251,384	$1,194,354	$1,135,813	$1,075,880	$1,014,669	$952,280
Taxes	$482,558	$516,402	$545,777	$571,041	$592,522	$610,523	$625,323	$637,177	$646,321	$652,973	$657,330	$659,578	$659,884	$658,405	$655,282	$650,648	$644,623	$637,318	$628,836
After-tax income	$1,293,774	$1,239,866	$1,185,959	$1,132,052	$1,078,145	$1,024,237	$970,330	$916,423	$862,516	$808,609	$754,701	$700,794	$646,887	$592,980	$539,072	$485,165	$431,258	$377,351	$323,443
Check of book equity return																			
Earnings	$1,293,774	$1,239,866	$1,185,959	$1,132,052	$1,078,145	$1,024,237	$970,330	$916,423	$862,516	$808,609	$754,701	$700,794	$646,887	$592,980	$539,072	$485,165	$431,258	$377,351	$323,443
Book Equity	$14,375,262	$13,776,293	$13,177,324	$12,578,355	$11,979,385	$11,380,416	$10,781,447	$10,182,477	$9,583,508	$8,984,539	$8,385,570	$7,786,600	$7,187,631	$6,588,662	$5,989,693	$5,390,723	$4,791,754	$4,192,785	$3,593,816
ROE	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%	9.000%
Rev Requirement by Functional Category																			
Capital Costs	$5,260,221	$5,134,781	$5,009,340	$4,883,900	$4,758,459	$4,633,019	$4,507,578	$4,382,138	$4,256,697	$4,131,257	$4,005,816	$3,880,376	$3,754,935	$3,629,495	$3,504,055	$3,378,614	$3,253,174	$3,127,733	$3,002,293
CCA Tax Savings	($698,284)	($642,421)	($591,027)	($543,745)	($500,246)	($460,226)	($423,408)	($389,535)	($358,372)	($329,703)	($303,326)	($279,060)	($256,735)	($236,197)	($217,301)	($199,917)	($183,923)	($169,210)	($155,673)
Fixed Operations & Maintenance	$1,121,557	$1,143,988	$1,166,868	$1,190,205	$1,214,009	$1,238,289	$1,263,055	$1,288,316	$1,314,083	$1,340,364	$1,367,172	$1,394,515	$1,422,405	$1,450,854	$1,479,871	$1,509,468	$1,539,657	$1,570,450	$1,601,860
Total	$5,683,494	$5,636,348	$5,585,181	$5,530,360	$5,472,223	$5,411,082	$5,347,226	$5,280,919	$5,212,408	$5,141,919	$5,069,662	$4,995,831	$4,920,605	$4,844,152	$4,766,624	$4,688,165	$4,608,907	$4,528,974	$4,448,479
	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
4%	4%	3%	3%	3%	3%	2%	2%	2%	2%	2%	2%	1%	1%	1%	1%	1%	1%	1%

Peaker Deferral Method (PDM) -

Year	31	32	33	34	35	36	37	38	39	40
Debt Term Flag	1	1	1	1	1	0	0	0	0	0
Capital Cost	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$55,903,798	$0	$0	$0	$0	$0
Starting Rate Base	$7,986,257	$6,389,005	$4,791,754	$3,194,503	$1,597,251	$0	$0	$0	$0	$0
Accumulated Depreciation	($49,514,792)	($51,112,044)	($52,709,295)	($54,306,547)	($55,903,798)	$0	$0	$0	$0	$0
Ending Balance Rate Base	$6,389,005	$4,791,754	$3,194,503	$1,597,251	$0	$0	$0	$0	$0	$0
Debt										
Beginning Balance	$4,991,411	$3,993,128	$2,994,846	$1,996,564	$998,282	$0	$0	$0	$0	$0
Interest	$247,574	$198,059	$148,544	$99,030	$49,515	$0	$0	$0	$0	$0
Principal	$998,282	$998,282	$998,282	$998,282	$998,282	$0	$0	$0	$0	$0
Equity										
Beginning Balance	$2,994,846	$2,395,877	$1,796,908	$1,197,939	$598,969	$0	$0	$0	$0	$0
Equity Return	$269,536	$215,629	$161,722	$107,814	$53,907	$0	$0	$0	$0	$0
Return of Invested Equity	$598,969	$598,969	$598,969	$598,969	$598,969	$0	$0	$0	$0	$0
Book Equity Return	$868,505	$814,598	$760,691	$706,784	$652,876	$0	$0	$0	$0	$0
Taxes										
Equity Return	$269,536	$215,629	$161,722	$107,814	$53,907	$0	$0	$0	$0	$0
Tax on Equity Return	$78,165	$62,532	$46,899	$31,266	$15,633	$0	$0	$0	$0	$0
Tax Grossup - Equity	$31,927	$25,541	$19,156	$12,771	$6,385	$0	$0	$0	$0	$0
Revenue Requirement										
Fixed O&M	$1,633,897	$1,666,575	$1,699,906	$1,733,904	$1,768,582	$0	$0	$0	$0	$0
Interest	$247,574	$198,059	$148,544	$99,030	$49,515	$0	$0	$0	$0	$0
Equity Return	$269,536	$215,629	$161,722	$107,814	$53,907	$0	$0	$0	$0	$0
Depreciation	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$0	$0	$0	$0	$0
Tax grossup - Depreciation	$652,398	$652,398	$652,398	$652,398	$652,398	$0	$0	$0	$0	$0
Impact of CCA deduction	($143,219)	($131,761)	($121,221)	($111,523)	($102,601)	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
Tax on Equity Return - before grossup	$78,165	$62,532	$46,899	$31,266	$15,633	$0	$0	$0	$0	$0
Tax Grossup - Equity	$31,927	$25,541	$19,156	$12,771	$6,385	$0	$0	$0	$0	$0
Total Revenue Requirement	**$4,367,530**	**$4,286,225**	**$4,204,657**	**$4,122,912**	**$4,041,072**	**($94,393)**	**($86,842)**	**($79,894)**	**($73,503)**	**($67,622)**
Accumulated Deferred Income Tax										
Book Depreciation	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$0	$0	$0	$0	$0
CCA Schedule	0.63%	0.58%	0.53%	0.49%	0.45%	0.41%	0.38%	0.35%	0.32%	0.30%
CCA Depreciation	$350,640	$322,588	$296,781	$273,039	$251,196	$231,100	$212,612	$195,603	$179,955	$165,558
CCA Tax Savings	($143,219)	($131,761)	($121,221)	($111,523)	($102,601)	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
Check of Book Taxes										
Revenue	$4,367,530	$4,286,225	$4,204,657	$4,122,912	$4,041,072	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
Expenses	$1,633,897	$1,666,575	$1,699,906	$1,733,904	$1,768,582	$0	$0	$0	$0	$0
Operating Profit	$2,733,633	$2,619,650	$2,504,751	$2,389,008	$2,272,489	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
Interest	$247,574	$198,059	$148,544	$99,030	$49,515	$0	$0	$0	$0	$0
Book Depreciation	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$1,597,251	$0	$0	$0	$0	$0
Income	$888,808	$824,340	$758,955	$692,727	$625,723	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
Taxes	$619,272	$608,711	$597,233	$584,912	$571,816	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
After-tax income	$269,536	$215,629	$161,722	$107,814	$53,907	$0	$0	$0	$0	$0
Check of book equity return										
Earnings	$269,536	$215,629	$161,722	$107,814	$53,907	$0	$0	$0	$0	$0
Book Equity	$2,994,846	$2,395,877	$1,796,908	$1,197,939	$598,969	$0	$0	$0	$0	$0
ROE	9.000%	9.000%	9.000%	9.000%	9.000%	0.000%	0.000%	0.000%	0.000%	0.000%
Rev Requirement by Functional Category										
Capital Costs	$2,876,852	$2,751,412	$2,625,971	$2,500,531	$2,375,090	$0	$0	$0	$0	$0
CCA Tax Savings	($143,219)	($131,761)	($121,221)	($111,523)	($102,601)	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
Fixed Operations & Maintenance	$1,633,897	$1,666,575	$1,699,906	$1,733,904	$1,768,582	$0	$0	$0	$0	$0
Total	$4,367,530	$4,286,225	$4,204,657	$4,122,912	$4,041,072	($94,393)	($86,842)	($79,894)	($73,503)	($67,622)
	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

28	29	30	31	32	33	34	35	36	37	38	39	40
1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%

Request DR-11:

(a) Please compare the planning assumptions used in the evaluation of each capacity addition, including how many hours on average each year that each capacity addition is forecast to be in use to meet supply requirements (i.e. annual energy supply contribution).

(b) Please compare these planning assumptions with the Terms and Conditions of use for the Interruptible credit (i.e. interruptions allowed up to 16 hours per day and 15% of the hours in the year - potentially 1,314 hours).

Response DR-11:

(a) Please refer to the table provided below for the operating hours from the 2022 Evergreen IRP Scenario CE1-E1-R2, for each capacity type listed in IG DR-08. Please note the dispatchable generation operating hours for each unit is an output from our resource planning modeling, not an input or assumption.

Technology	Average Operating Hours per Year (2025 to 2050)	Min Operating Hours in a Year (2025 to 2050)	Max Operating Hours in a year (2025 to 2050)
Coal to HFO	45	0	273
Coal to Gas – Point Tupper	233	100	862
Solar PV (tracking)	~3600		
Combustion Turbine - Frame	1205	330	1550
Wind (onshore)	~7800		
Li-ion Battery (4 hour)	2716 (hours discharging)	1612 (hours discharging)	3180 (hours discharging)

(b) The terms and conditions of use for the Interruptible Credit (Interruption is limited to 16 hours per day and 5 days per week to a maximum of 30 percent of the hours per month and 15 percent of the hours in a year) most closely resemble how new combustion turbines were operated in the 2022 Evergreen IRP.

Request DR-12:

Please provide an average energy price estimate (i.e. on a per MWh basis) based on the avoided cost of fuel at NSPI's highest 50 peak hours. Please provide the same for the avoided cost of fuel at NSPI's highest 100 peak hours. Please provide the same for the avoided cost of fuel at NSPI's highest 1,000 peak hours.

Response DR-12:

NS Power has provided the requested data using forward replacement fuel and purchased power costs from PLEXOS' hourly system dispatch simulation.

The estimates for the test year 2025 are shown in the table below. NS Power and IPP-owned renewable generation, including ML NS Base block energy, are excluded. The calculations assume a no-PHP scenario using base system demand.

Top peak demand hours (no PHP)	Average System Demand [MW]	Fossil Fuel Fleet Generation Cost [$/MWh]	Purchased Power, Cost [$/MWh]
50	2153	$85.7	$185.9
100	2067	$81.1	$159.7
1000	1768	$74.3	$83.4

NON-CONFIDENTIAL

Request DR-13:

Please provide an average energy price estimate (i.e. on a per MWh basis) of the avoided cost of purchased power at each of NSPI's highest 50, 100, and 1000 peak hours.

Response DR-13:

Please refer to IG DR-12.

Request DR-14:

How many large industrial customers/accounts are connected to NSPI's distribution network and charged the distribution adder?

- **Note, Per SR-01 Att 03 PCON Updated the total appears to be 36 total large industrial, of which 8 are transmission connected and 28 are served at primary voltage (per Exh 8a) – is this correct?**

Response DR-14:

Correct. The large industrial customers/accounts connected to Transmission Network are as follows:

Customer	Source Voltage
[redacted]	138 kV
	138 kV
	69 kV
	69 kV
	69 kV
	69 kV
	69 kV
	69kV

Request DR-15:

Please detail NSPI's requirements regarding customer contributions for connecting large industrial customers to the distribution system. Please explain how much of an industrial customers distribution-related connection capital costs are covered by the customer compared to NSPI.

Response DR-15:

The Company provides distribution customers a Free Service Allowance of a maximum of 92 metres of line or service extension, or 92 metres of line and service combined.[1]

There is no cost differentiation among distribution-connected customers. All customers are provided with the same Free Service Allowance. Capital contributions are not tracked by customer class in NS Power's accounting records. When a capital contribution is received, it is applied against the cost of the project incurred by NS Power.

[1] Section 2.6 of NS Power's Regulations

NON-CONFIDENTIAL

Request DR-16:

Please explain how customer contributions are allocated in the Cost of Service study, and if they are directly tracked to the benefit of the individual contributing customer classes.

Response DR-16:

NS Power does not track capital contributions at individual customer level within NS Power's asset pools. When a capital contribution is received from a third party, it is applied against the cost incurred by NS Power, thereby reducing the cost of the assets to NS Power by the amount of the contribution. The net capital cost is allocated to customer classes following the Cost of Service methodology therefore, the individual contributing customers receive the benefit at a class level.

Request DR-17:

During discussion in the July 16, 2024 modelling session, NS Power agreed to provide a list of environmental assets and costs.

Response DR-17:

Please refer to Attachment 1 for the list of energy-related environmental and fuel switching assets.

COSS IG DR-17 Attachment 1 has been filed electronically.

CONFIDENTIAL (Attachments Only)

Request DR-18:

Reference: Requests made of NS Power during October 16, 2024 Position Session by Patrick Bowman and Melissa Davies on behalf of IG.

(a) Written Responses:

(i) Request NSP to show the impact of the MEU proposal on the cost of service and indicate whether this has been reflected in any of the modelling.

(ii) NSPI committed to directly functionalize investments in IT software and equipment; if those could be broken out, and associated numbers so we can understand the approach. In memo, it says "…directly functionalized…where appropriate" - what you would consider appropriate and what criteria would you use to investigate.

(b) Model Requests:

(i) In respect of NSP's proposal re: unbundled service (item 8 in the original consensus tracker), the IG is looking for two versions of Model 1 that add in NSP's proposal:

(1) One with PHP ATL; and

(2) One with PHP BTL.

(ii) A version of Model 1 – NSP positions, but with PHP backed out to BTL.

(iii) A version of Model 14b – NSP positions, but with PHP backed out to BTL.

(iv) Upload to FTP an updated Model 2 (corrected Inter Gen with Lingan).

Response DR-18:

(a) Written Responses:

(i) For the effect of MEU proposal to align OATT methodology with COS, please refer to Attachment 1. The effect on individual rate class costs is around 0.01 percent. It has not been reflected in COS models due to its minor effect.

(ii) This work has not been carried out at this time, as it will require significant time and effort on behalf of subject matter experts to analyze capital rate base and cost record data. Please refer to PHP DR-28 for more details.

(b) Model Requests:

(i) Versions of Model 1 in respect of NSP's proposal re: unbundled service:

(1) For COS analysis with PHP ATL please refer to the following spreadsheets uploaded to the FTP site:

- 00-GRA 2023 COSS 1. NSP Positions PHP 65MW CONF
- 00-GRA 2023 BCF 1. NSP Positions PHP 65MW CONF

(2) For COS analysis with PHP ATL please refer to the following spreadsheets uploaded to the FTP site:

- 00-GRA 2023 COSS 1. NSP Positions with Lingan & Gen Radial PHP BTL CONF
- 00-GRA 2023 BCF 1. NSP Positions with Lingan & Gen Radial PHP BTL CONF

(ii) Please refer to item (i) (2) above.

(iii) Please refer to PHP DR-24.

(iv) Please refer to the following spreadsheet uploaded to the FTP site on October 31, 2024:

- 00-GRA 2023 COSS 2. Inter Gen (Lingan TC) CONF
- 00-GRA 2023 BCF 2. Inter Gen (Lingan TC) CONF

NON-CONFIDENTIAL

Request DR-19:

Reference: Email sent to Mollie Morris from Patrick Bowman titled "RE: Morris, Mollie shared "20241021 COSS Position Tracking Document" with you."

Looking for an update on Avon IR-8 from the 2013 COSS process which shows the costs by initiative/project instead of book values by plant, which was provided in IG DR-17 Attachment 1.

Response DR-19:

Please refer to Attachment 1.

COSS IG DR-19 Attachment 1 has been filed electronically.

Request DR-20:

Reference: November 4, 2024 and November 5, 2024 Cost of Service Study Resolution Sessions verbal request.

Clarify how Generation Related Transmission Assets (GRTA) are determined in the OATT calculations and what is the relationship between the share of GRTA in total transmission rate base and the share of the length of radial to generation 69 kV lines in the total system length of 69 kV lines.

Response DR-20:

The GRTA are defined as follows in NS Power's original 2005 OATT Application:

> Generation Related Transmission Assets ("GRTA") are those assets that serve the function of connecting generation units to the shared Transmission System. They consist of generator step up transformers ("GSU"), a portion of substation assets, and transmission lines whose primary purpose is to connect a generator to the Transmission System. These assets and the associated revenue requirements are to be recovered directly from the generation owners and not collected in the rate for the transmission tariff. For any new generation, the generator will be responsible for the cost of any additional transmission assets that are required to connect the new generator, including, but not limited to, additional transmission capacity and reliability investments. In the FERC pro forma tariff, as well as in the proposed NSPI OATT, these assets are referred to as Direct Assignment Facilities.[1]

The investment and costs of GRTA, as provided in the most recent OATT calculations in tab "Trans – Figu 5-9" tab of the OATT spreadsheet,[2] represent the following shares of the total investment.

[1] Consensus Proposal and NSPI's Supplementary Evidence, May 6, 2005.
[2] M10431, 2022-2024 GRA Compliance Filing, Appendix D – 2023 OATT Rate Development, Exhibit N-160 (iv)

NON-CONFIDENTIAL

Generation Related Transmission Assets:	Gross Plant (in $000s)	Net Plant (in $000s)	Relative Shares Gross Plant	Net Plant
Step Up Transformers	$18,009	$14,655	1.3%	1.3%
Radial to Generation	49,869	40,583	3.5%	3.5%
Generator Breakers	7,591	6,178	0.5%	0.5%
Total Gen. Related Transmission Assets	**75,469**	**61,417**	**5.3%**	**5.3%**
Bulk Network:	**1,357,817**	**1,092,216**	**94.7%**	**94.7%**
Total Transmission Assets	**$1,433,286**	**$1,153,633**	**100.0%**	**100.0%**

To see how individual GRTA investments were determined please refer to calculations in tab "Trans. PLt Analysis" following the links from the "Trans – Figu 5-9" tab.

As far as the Radial to Generation category is concerned, one of the inputs into calculation of this investment is the share of the length of the 69 kV transmission line used as radial to generation to the length of the total system 69 kv transmission line, calculated as follows in cell D55 in the "69kV Radial to Load" tab:

(117.2 km of 69 kV radial to generation lines) / (1,668 km of 69 kV radial to generation lines) = 7.03%.

The factor of 7.03 percent is an operational statistic whose value is naturally close to the overall share of the GRTA investment in the total transmission investment of 5.3 percent but not identical to it as it is a driver behind of just one out of three GRTA components.

NON-CONFIDENTIAL

Request DR-1:

Information requests were made of NS Power by James MacDuff on behalf of the MEUs in his e-mail "CTD with Elenchus consensus summary for Discussion" sent on June 5, 2024 at 4:54 pm:

> **"I'm sending this email on behalf of the Municipal Electric Utilities ("MEUs") in advance of COSS stakeholder session #8. The subject for that session is the Alignment of cost of service treatment applied to bundled and unbundled services in RtR and Wholesale Markets, including the OATT and also a review of Riders.**
>
> **In the April 12 process memo, NSP requested that stakeholders "provide proposals for changes associated with the issues scheduled for that session" at least 7 business days in advance. However, to date, the MEUs are not aware of NSP providing its position on this issue, which makes it difficult to propose "changes."**
>
> **In its initial February 2 comments in this process, the MEUs noted these issues are a critical component of this COSS review, and have made this point on a number of occasions. For example, in its April 22 comment letter, the MEUs reiterated their request for the following information, first requested in their March 25 comments:**
>
> > **"…the MEUs remain focused on ensuring that as part of this integrated COSS review process, the costs of service related to transmission for unbundled service are consistent with the transmission costs paid by NS Power's other customers for similar service. The MEUs believe it would be helpful if NS Power could provide an analysis in this regard following session #6 on transmission, together with any available information on how such issues are addressed in other jurisdictions with a competitive market. A similar analysis explaining how the demand and energy charges for the BUTU rate compare to the current approach used for both the Renewable to Retail Tariffs and the Municipal Tariff would also be helpful in confirming similarity of treatment for similar services."**
>
> **NSP does not appear to have provided this analysis to date as part of the data request responses or otherwise, although perhaps the intention is to provide this as part of Batch #3 of the DR responses?**

In any event, in keeping with the process outlined in the April 12 memo to request NSP/Elenchus modeling of "proposed changes" in advance of the session at least 7 business days in advance, the MEUs would appreciate if NSP could clarify whether it is in agreement with the principle that similarity in services provided should attract similar rate treatment.

The MEUs also request that NSP/Elenchus provide analysis and modeling, based on NSP's current COSS position, of the transmission charges applicable to the MEUs assuming their current level of service under the Municipal Tariff, as compared to if such transmission service was all taken through the Wholesale Market via the OATT, with explanations for any substantive differences. To the extent there are any substantive differences, the MEUs request that NSP/Elenchus indicate the changes that would be required to the COSS methodology to ensure alignment of rate treatment for similar transmission service.

Similarly, the MEUs also request that NSP/Elenchus provide analysis and modeling, based on NSP's current COSS position, of the demand and energy charges applicable to the MEUs assuming their current level service under the BUTU rate, as compared to the applicable charges if the same type of backup service was taken under (i) the Renewable to Retail Tariffs and (ii) the Municipal Tariff, with explanations for any substantive differences. To the extent there are any differences, the MEUs request that NSP/Elenchus indicate the changes required to the COSS methodology to ensure alignment of rate treatment for similar backup service.

Finally, with respect to the Riders, the MEUs note that in their March 25 comments, they stated now is the appropriate time to consider whether the DSM cost allocation methodology should be changed to allocate 100% of costs attributable to the MEUs based on class and participation benefits, rather than the existing approach which allocates 25% based on system benefits in certain circumstances (BUTU) but not others (Wholesale Market). The MEUs request that NSP/Elenchus provide analysis and modeling comparing the applicable DSM Rider charges assuming that the MEUs are simply direct billed 100% of the DSM costs invested in their individual communities as compared to the existing approach.

Please let me know if you have any questions regarding the above. The MEUs expect they will be in a position to update the CTD from their perspective within a few days following the June 17 session."

NS Power has understood and summarized the requests made in this email as follows, and will address each request in the response below:

(a) How cost and rate disparities between bundled and unbundled services, offered by single utilities, are addressed in other jurisdictions?

(b) What changes would be required to the COSS methodology to ensure alignment of rate treatment for similar transmission service in bundled and unbundled markets?

(c) Please provide analyses and modeling based on NS Power's current COSS position of the demand and energy charges applicable to the MEUs, assuming their current level service under the BUTU rate as compared to the applicable charges if the same type of backup service was taken under:

- **The Renewable to Retail Tariffs and**
- **the Municipal Tariff, with explanations for any substantive differences.**

(d) Please provide analyses explaining how the demand and energy charges for the BUTU rate compare to the current approach used for both the Renewable to Retail Tariffs and the Municipal Tariff (to confirm similarity of treatment for similar services).

Response DR-1:

(a) Elenchus' survey of rates and costing methodologies in effect in Canadian and USA jurisdictions, provided on May 17, 2024, did not reveal any information on the subject of cost and rate disparities between bundled and unbundled services. This is due to the fact that the regulatory/competitive market construct in Nova Scotia is unique, allowing for the operation of these two markets in parallel. Surveyed utilities were either mandated to unbundle their generation services, in which case they are not providers of generation services and customers do not have an option to acquire bundled service any longer, or they remained vertically integrated, in which case their retail customers can acquire only bundled services.

(b) There are differences in treatment of transmission and generation ancillary services between the current COSS and OATT methodologies because the OATT methodology conforms to FERC's pro forma OATT which came into effect long after the COSS methodologies were developed for utilities' bundled services in North American jurisdictions.

Rates applicable under the OATT are not set according to cost allocation methodologies that consider different types of load customers falling into diverse rate classes under the COSS.

Further, there are differences in how revenue requirements are determined under these two methodologies. Under the OATT some of these costs requirements such as depreciation, tax and return are determined through formulaic calculations rather than being applied directly from utility's financial forecasts and accounting system as is the case under the COSS. As a result, right from the start of the cost apportionment process there are differences between the revenue requirement levels of COSS and OATT.

There are also granular differences in costing of provided transmission and generation services in these two markets. The COSS does not distinguish between ancillary and basic generation services or point-to-point and network transmission services.

Under the OATT, transmission revenue requirement is apportioned between the Point-to-Point and Network services based on relative share of these services in monthly demands coincident with system peaks. Under the COSS transmission costs are apportioned to rate classes based on their shares in both the system coincident peaks and system energy requirement. Both Point-to-point and Network OATT rates are calculated by dividing transmission revenue requirements by the annual sum of monthly billed demands.

To align transmission costs and rates between these two markets more closely, both the COSS and OATT would have to be modified:

- NS Power's proposed change to the classification of transmission from the system load factor to 100 percent demand with a 3CP allocator would move the allocation of transmission costs closer to that under the OATT.

- NS Power's proposed replacement of the formulaic-based transmission revenue requirement with the transmission revenue requirement, as used under the COSS, would further reduce disparities in transmission rates.

(c) Please see **Attachment 1** for analyses of these scenarios. A summary of the results can be found in the table below. This table also includes an estimate of total OATT charges and charges in the Municipal OATT (Model #11) scenario.

Simulated Revenues from 4 OATT MEUs (2023 Test Year)		
OATT		$2,282,459
Energy Balancing and Capacity backup in Wholesale Market		
	BUTU	$3,063,902
	SPILL	($1,121,076)
	Total	$1,942,826
Energy Balancing and Capacity backup in Renewable to Retail Market		
	Energy Balancing Service	
	Topup	$2,806,514
	Spill	($1,121,076)
	Total	$1,685,438
	Standby Service	$990,272
	RtR Market Transition Tariff	$1,049,862
	Total	$3,725,573
Bundled Service under Municipal Rate		
	Total (billed by current Muni rates)	$10,993,483
	Transmission Only (classified 100% to Deman	$1,086,422
	Transmission Only (classified on SLF)	$1,125,384
Bundled Servcie under Municipal Rate developed separately for Four OATT MEUs (Model #11)		
	Total	$12,643,214
	Transmission Only (classified 100% to Deman	$1,634,753
	Transmission Only (classified on SLF)	$1,404,813

The primary differences in annual bills between the Wholesale market, under the BUTU and Spill Tariffs, and the Renewable to Retail (RtR) market, under the Energy Balancing and Standby Tariffs, are the calculations of billed demand and the marginal cost-based energy charge applicable to top-up energy in the RtR market. Descriptions of the determination of charges is provided in the response below. The BUTU demand charge is billed on reserved contracted demand and the RtR demand charge is billed on demand during the coincident peak. Both billed demands are adjusted for planning reserve and the generation capacity contribution factor. A class monthly demand adjustment factor is also applied to the Renewable to Retail billed demand.

There is a difference in the non-fuel cost component of the energy charges applicable to top-up energy between the two markets due to the four-year phase-in, in the period 2023-2026, of the embedded cost rate methodology under the BUTU Tariff. By 2026 these two cost components will be the same under the BUTU and EBS Tariffs.

There is a Transition Tariff charge in the RtR marked to avoid cost transfers to bundled service customers.

(d) The BUTU energy and demand Purchased Power and Fuel Costs (i.e. FAM costs) are allocated in the same way those costs are allocated to above-the-line rate classes in the Base Cost Fuel (BCF) file. Demand-related costs are allocated to BUTU by its share of 3CP and energy-related costs are allocated to BUTU by its share of kWh sales. Demand-related purchased power costs include Biomass, Maritime Link, Wind, and Other Purchased Power. Energy-related purchased power costs include Fuel, Imports, Biomass, Maritime Link, Wind, Other Purchased Power, and a net export credit.

The Renewable to Retail non-fixed energy charges are calculated as the avoided/marginal cost of energy.

Fixed-generation BUTU and RtR rates are calculated by the same COSS-based embedded cost methodology, however, there is a phase-in adjustment applied to the BUTU rates in 2023 to limit the forecast revenue increase to 25 percent of the total one-time increase. The rates are calculated as a unit cost per kW or per kWh for NS Power as a whole, using total NS Power costs divided by total NS Power billing determinants. The demand charge is calculated as total fuel/purchases expenses classified as demand from Exhibit 5 of the COSS, less ancillary generation-related costs that are recovered under the OATT, divided by total NS Power demand (including ATL rate classes). The energy charge is calculated as total fuel/purchases expenses classified as energy from Exhibit 5 of the COSS divided by total NS Power sales. Following a revenue analysis, the BUTU charges were then reduced by 42.6 percent in 2023 to phase-in the rate increase to an overall 25 percent increase.

The table below summarizes the basis for FAM and non-FAM costs for each of the Back-up/Top-Up, Renewable to Retail, and Municipal rates. For clarity, the label of each rate under each tariff is provided in italics. Please note that Municipal energy and demand charges in the tariff schedule include non-generation costs.

	BUTU	RtR	Municipal
FAM-related – Energy	*"Energy-related Purchased Power and Fuel Cost"*	*"Fuel Cost"*	*"Energy Charge"*
	Allocated MWh	Marginal/Avoided Cost	Allocated MWh
Fixed – Energy	*"Energy-related Fixed Generation Cost"*	*"Fixed Cost Adder"*	*"Energy Charge"*
	Average NS Power Unit Cost (with Phase-in)	Average NS Power Unit Cost	Allocated MWh
FAM-related – Demand	*"Demand-related Purchased Power"*	*"Fuel Cost"*	*"Demand Charge"*
	Allocated 3CP	N/A	Allocated 3CP
Fixed – Demand	*"Demand-related Fixed Generation Cost"*	*"Demand Charge"*	*"Demand Charge"*
	Average NS Power Unit Cost (with Phase-in)	Average NS Power Unit Cost	Allocated 3CP

The primary difference between the fuel cost components of the BUTU and RtR rates are that BUTU FAM-related charges are based on allocated costs and RtR rates are based on avoided/marginal costs. Marginal costs were lower than allocated (or average) costs in 2023 but this can change from year to year and marginal costs typically fluctuate more over time. Fixed costs are initially calculated to be the same for BUTU and RtR rates, but there is a phase-in to the BUTU rates that caused them to be lower in 2023.

NS Power/Elenchus prepared Model #11 to demonstrate the COSS impact of including the municipal customers that take service under the OATT as a separate rate class "Municipal OATT". This COSS run includes the loads of Antigonish, Berwick, Mahone Bay, and Riverport, less volumes from Ellershouse for the purpose of allocating transmission costs. The COSS includes all transmission costs including those attributable to customers served under the OATT. Transmission costs are offset by OATT revenues so only net transmission costs are allocated to other rate classes. In this scenario, OATT revenues are removed so total transmission costs are allocated to classes, including the new Municipal OATT rate class. Additionally, Antigonish and Riverport loads (again net of Ellershouse) are included as distribution primary loads and the rate class receives an allocation of primary distribution costs.

In response to the MEUs request that "NS Power/Elenchus provide analysis and modeling comparing the applicable DSM Rider charges assuming that the MEUs are simply direct billed 100 percent of the DSM costs invested in their individual communities as compared to the existing approach", Elenchus presented the requested information in the Model Review Session on July 16, 2024 and the models were uploaded to the FTP site on July 15 and 16, 2024, titled as follows:

- Appendix H - 2023-2024 DSM Energy Efficiency Programs Compliance Fillings PCON
- Appendix H - 2023-2024 DSM Energy Efficiency Programs BUTU COST all direct allocated PCON

- Appendix H - 2023-2024 DSM Energy Efficiency Programs ALL customers COST all direct allocated PCON

COSS MEU DR-1 Attachment 1 has been filed electronically.

NON-CONFIDENTIAL

Request DR-1:

With reference to NS Power's initial position document Issue # 1a please indicate which specific generation assets NS Power believes will be appropriately classified as intermediate generation.

Response DR-1:

Consistent with NS Power's initial position, the only generation units which NS Power proposes to classify based on their projected annual capacity factors are steam units which will operate at capacity factors below future system load factor, and which are not expected to be retired before 2030. Tufts Cove 1, 2 and 3 fall into this category.

The projected capacity factors of LM6000 and Combined cycle units (Tufts Cove units 4, 5 and 6) align with their historic trend, and for that reason, NS Power does not propose a change in their current cost treatment even though in some future years their capacity factors are forecast to fall below the system load factor. These units have always been classified unit now based on the system load factor.

Please refer to cells highlighted in green in the annual capacity factor by generator in Attachment 1 for generation assets which are proposed to be classified on their annual capacity factors going forward. This is the same table as included in Attachment 1 to PHP DR-4.

*Data provided is taken from the 2022 Evergreen IRP, scenario CE1-E1-R2.

Capacity Factor (%)

	Lingan 1	Lingan 3	Lingan 4	Point Aconi	Point Tupper	Trenton 5	Trenton 6	Tufts Cove 1	Tufts Cove 2	Tufts Cove 3	Tufts Cove 4	Tufts Cove 5	Tufts Cove 6	CT - Burnside 1	CT - Burnside 2	CT - Burnside 3	CT - Burnside 4	CT - Tusket	CT - VJ 1	CT - VJ 2
2025	38.11	14.15	22.72	9.51	58.56	16.87	44.25	5.3	18.42	20.69	67.62	62.78	44.2	3.07	2.33	2.33	2.4	1.01	0.54	0.74
2026	29.21	13.91	25.61	1.32	40.69	11.58	37.15	4.52	8.43	13.84	57.44	55.66	37.44	1.76	1.56	1.55	1.81	0.96	0.54	0.7
2027	27.55	11.07	14.64	4.25	54.88	13.5	49.78	1.18	5.34	12.15	60.63	60.38	37.3	0.45	0.55	0.39	0.68	0.15	0.08	0.08
2028	32.18	16.66	22.4	2.16	53.33	21.72	0	1.94	3.18	7.46	61.29	58.15	38.83	0.59	0.9	0.46	0.64	0.15	0.08	0.06
2029	11.44	8.4	9.7	0	6.56	0	0	1.38	15.68	26.3	68.34	64.78	46.42	1.78	1.98	1.84	2.09	0.62	0.17	0.12
2030	1.02	1.33	1.51	0	2.07	0	0	4.69	19.99	29.95	62.05	62.13	44.62	1.65	1.85	1.9	2.05	0.72	0.2	0.12
2031	0.91	1.75	1.50	0	1.32	0	0	3.1	16.23	23.45	56.07	55.32	40.17	1.81	1.95	1.81	1.9	0.9	0.14	0.12
2032	1.67	2.33	2.33	0	1.79	0	0	5.11	16.9	27.87	57.02	57.37	40.6	3.35	3.3	3.14	2.88	2.21	0.15	0.13
2033	1.24	2.24	1.99	0	1.95	0	0	4.02	12.08	20.85	42.95	43.74	33.63	1.57	1.83	1.95	2.05	1.09	0.12	0.09
2034	0.94	1.49	1.55	0	1.95	0	0	2.21	12.07	18.06	39.4	38.15	29.54	3.03	3.39	2.93	3.6	2.42	0.22	0.18
2035	0.00	0.00	0.00	0	1.66	0	0	0.26	4.65	11.38	31.54	31.32	23.54	0.13	0.14	0.15	0.13	0.08	0.07	0.03
2036	0.03	0.46	0.30	0	1.84	0	0	1.14	6.38	11.43	31.92	31.43	22.95	0.17	0.13	0.16	0.13	1.24	0.06	0.09
2037	0.00	0.00	0.00	0	0.86	0	0	0.1	5.45	13.13	32.39	31.5	23.04	0.07	0.06	0.1	0.08	0.06	0.08	0.05
2038	0.00	0.00	0.00	0	1.16	0	0	1.42	6.17	13.38	32.44	33.11	24.88	0.12	0.09	0.08	0.1	0.01	0.05	0.05
2039	0.00	0.00	0.00	0	1.91	0	0	1.63	6.19	13.75	33.19	33.45	25.65	0.05	0.07	0.06	0.07	1.41	0.04	0.06
2040	0.00	0.00	0.00	0	1.80	0	0	1.5	9.43	13.79	33.64	32.85	26.06	0.07	0.1	0.09	0.17	1.63	0.06	0.04
2041	0.00	0.00	0.00	0	1.71	0	0	1.25	8.6	14.66	34.86	34.43	24.82	0.2	0.2	0.11	0.18	0.52	0.03	0.07
2042	0.00	0.13	0.00	0	1.28	0	0	0.57	9.75	14.41	35.22	35.46	25.71	0.19	0.23	0.11	0.1	2.4	0.02	0.02
2043	0.00	0.00	0.00	0	1.00	0	0	1.29	8.1	14.33	35.18	34.49	24.87	0.33	0.19	0.23	0.23	0.68	0.05	0.03
2044	0.00	0.12	0.00	0	2.16	0	0	1.92	7.42	13.4	34.02	33.58	25.78	0.18	0.17	0.19	0.22	0.02	0.02	0.03
2045	0.00	0.00	0.00	0	2.28	0	0	2.83	8.71	14.55	33.9	33.16	25.8	0.3	0.39	0.4	0.35	0.22	0.1	0.02
2046	0.00	0.00	0.00	0	1.89	0	0	2.46	9.66	15.76	35.78	34.62	26.4	0.23	0.15	0.25	0.22	1.24	0.03	0.01
2047	0.00	0.09	0.05	0	1.56	0	0	2.36	9.48	13.99	36.15	36.27	27.35	0.33	0.36	0.2	0.32	2.37	0.02	0.04
2048	0.00	0.00	0.00	0	1.55	0	0	2.91	8.64	15.43	37.16	36.78	28.01	0.23	0.29	0.15	0.12	0.36	0.02	0.02
2049	0.00	0.00	0.00	0	0.00	0	0	2.21	7.57	15.14	34.6	35.69	26.31	0.24	0.23	0.2	0.26	0.17	0.03	0.12
2050	0.00	0.00	0.00	0	0.00	0	0	3	7.09	15.76	35.81	35.24	27.94	0.3	0.25	0.43	0.36	0.24	0.03	0.06

Capacity factors for coal units after transitioning fuel sources to either HFO (LIN 1, 3, 4) or natural gas (PTUP)

Generation assets which are proposed to be classified on their annual capacity factors going forward

Request DR-2:

In regards to request number 1 please indicate whether NS Power believes ELCC factor would be preferable to the use of capacity factor for classification of intermediate generation, and if not please provide an explanation.

Response DR-2:

NS Power does not believe that application of ELCC factor to classification of intermediate dispatchable generation is preferable to that of capacity factor for the following reasons.

- As provided in E3's Report, the ELCC is primarily used to measure the ability of non-firm resources such as wind, solar storage, hydro, and demand response to contribute to the Planning Reserve Margin for determination of capacity of non-dispatchable units.[1] It is a complex and data intensive method[2] and for that reason is not a common method of choice for a broad classification of generation in cost-of-service studies of electric utilities.

- The classification of generation under NS Power's COSS model falls into Judgemental Energy Weighting Methods[3] which recognize that units operating during longer hours reflect additional capital investment to lower running production costs of these units. To the extent this is taking place, the cost of the additional capital investment beyond that of a peaking unit should be classified to energy. The classification to energy based on system load factor has been a preferred method to accomplish classification to energy at NS Power since 1996. To the extent steam units continue to operate during a number of hours which

[1] Planning Reserve Maring and Capacity Value Study, July 2019 report provide by Energy Environmental Economics, Section 1.4 Effective Load Carrying Capability (ELCC) page 7.
[2] Planning Reserve Maring and Capacity Value Study, July 2019 report provide by Energy Environmental Economics, Section 1.4 Effective Load Carrying Capability (ELCC) page 8.
[3] NARUC's Electric Cost Allocation Manual, January 1992, page 57.

exceed the number of operating hours typically expected from a peaking unit[4] there remains energy-related cost causation behind investment in these units. However, a significant reduction in operating hours of such units compared to the original intended purpose to operate them as baseload units justifies, in NS Power's view, an adjustment in their classification method from a system load factor to an individual unit capacity factor or their combined weighted average capacity factor. Directionally, this approach retains the originally intended cost causative relationship between classification to energy and intensity of usage of these units in that as number of operating hours of these units goes down in parallel with their capacity factors, fewer costs are reclassified to energy.

- Under the ELCC approach the longer the operating hours, and therefore the higher the capacity factor of a generation unit, the more costs are classified to demand. This is exactly the opposite result to the one expected from classification based on unit's capacity factor. A broad application of the ELCC-based classification to all generation units is bound be produce anomalies where, for example, both a base load thermal unit and a diesel CT could have equally high ELCC factors, and therefore most of their costs classified to demand. The based load unit in such an operating circumstance, however, clearly demonstrates a significant energy-related cost causation which is only attested to by classification of its costs to energy based on its capacity factor. A transition from the system load factor-based classification to the ELCC one-based would eliminate the energy-related cost causation behind investments in base load units. This would represent a foundational change in classification of generation under NS Power's COSS and would require further discussion with stakeholders.

[4] NARUC's Electric Cost Allocation Manual January, 1992 makes reference on page 53 to an upper bound of 1,500 operating hours as a peak load of relatively brief duration which maybe served most economically by a combustion turbine or a peaker. The load of intermediate duration is defined as from 1,500 to 4,000 hours.

Request DR-3:

BAIs COS Cost Allocation presentation of April 29, 2024 showed ELCC demand/energy breakdowns for generation assets based on the E3, Overview of PRM Study (August 7, 2019) Presentation. Is NS Power generally in agreement with these ELCC factors. If not please explain and provide NS Power's current view of the ELCC demand/energy breakdowns for its generation assets.

Response DR-3:

Subsequent to the publication of the E3 Planning Reserve Margin (PRM) and Capacity Value Study, in July 2019, an update was done in June 2020.[1] This update reflected updated DAFOR values and separated TUC 1, 2, 3 from TUC 4, 5, 6 in the table for clarity. Please refer to the below table for the updated unforced outage effective load carrying capabilities (ELCC).

Revised Table 18 - E3 PRM Study (Section 4.2 Load and Resource Balance)			
Resource	**Nameplate Capacity**	**Net Capacity**	**ELCC %**
Coal	1081	976	90%
HFO/Gas	318	232	73%
Gas CTs	144	133	93%
LFO CTs	231	178	77%
Biomass	43	41	95%
Hydro	374	355	95%
Wind	596	113	19%
Maritime Link Base Energy Imports	153	150	95%*

*NS Power adjusted the ML ELCC value from 98% to 95% in advance of the 2022 Evergreen IRP to reflect a high forced outage rate associated with the Labrador Island Link during initial operations.

NS Power would like to add context to the BIA's interpretation of the E3 study for the purpose of its COS Cost Allocation presentation on April 29, 2024.

[1] IRP Modeling Results 2020-06-26 (nspower.ca), Slide 7

- In the BIA presentation, the ELCC for "Steam" appears to be a weighted average of the coal and oil ELCC's in Table 18 from the E3 PRM study. In the E3 study, the row titled "Oil" represents NS Powers diesel CT fleet and shouldn't be included in a weighted average for steam. Using the "Coal" and "HFO/Gas" values from the table supplied above would be a more appropriate grouping for a "Steam" heading.

- In the BIA presentation, the ELCC for "Hydro" appears to be a weighted average that included Annapolis Tidal. Since Annapolis Tidal is no longer in operation it should not be included in any forward looking calculations.

- The Solar ELCC value is shown as 5% in the E3 study, but this is based on an installed capacity of 2 MW. As stated in the E3 report, beyond initial penetrations of solar capacity, marginal capacity value declines to 0% due to the poor correlation between the net peak load hours and the hours of solar generation. NS Power would recommend using 0% as an ELCC for Solar when looking forward to a future with several hundred MW of solar online.

- In the BIA presentation the ELCC values are taken from Table 18 in E3 PRM study. In this table, the ELCC values for thermal units incorporate the effects of forced outage rates on the ELCC. Table 17 in the E3 report shows the ELCC values excluding forced outage rates. Both sets of ELCC values are used in system planning for different purposes.

NS Power would like to point out that the ELCC values in the E3 report were calculated for system planning use, not cost of service, and that there is no relationship between the ELCC values presented in the E3 report and the amount of energy generated by the units. While ELCC was used to determine the division of costs between energy and demand for wind resources in the COS, this does not mean it is a reasonable approach for all generation types. Please refer to PHP DR-2 for further details.

Request DR-4:

Also with reference to NS Power's initial position document Issue # 1a please indicate which steam-thermal generation units are expected to continue to operate as base-load units at high capacity factors and are not expected to be retired by 2023, and provide the expected capacity factors from 2025-2030 and post 2030 for all such units.

Response DR-4:

Please refer to PHP DR-1 Attachment 1 for forecast capacity factors from 2025 to 2050 for existing steam-thermal generation units based on the scenario CE1-E1-R2 from the 2022 Evergreen IRP.

All coal-fired based load generation units, which are expected to be decommissioned by 2030 are proposed to continue to be classified on the system load factor. The oil or gas-fired Tufts Cove units 1, 2 and 3; as well as any previously coal-fired generation units which will continue to operate past 2030 as units converted to oil or natural gas, will have their costing treatment revised in accordance with their annual capacity factors. To the extent their capacity factors fall below 46 percent[1] they are proposed to be classified on their individual capacity factors.

[1] The 46% capacity factor is derived from NARUC's manual operating hours assumption for intermediate generation units starting at 4,000 hours. Please see section 2. Equivalent Peaker Methods, page 53.

NON-CONFIDENTIAL

Request DR-5:

Similar to request number 4 please indicate which steam-thermal units are expected to be retired by 2030 and the expected capacity factors for such units between 2025-2030.

Response DR-5:

The steam-thermal generation units that are expected to retire or be operated on alternate fuels by 2030 are as follows:

- Lingan 1 (operation on oil starting in 2030)
- Lingan 2
- Lingan 3 (operation on oil starting in 2030)
- Lingan 4 (operation on oil starting in 2030)
- Point Aconi
- Point Tupper (converted to natural gas for 2028/ 2029 Winter)
- Trenton 5
- Trenton 6

Please refer to PHP DR-1 Attachment 1 for forecast capacity factors from 2025 to 2050 for existing steam-thermal generation units based on the scenario CE1-E1-R2 from the 2022 Evergreen IRP.

NON-CONFIDENTIAL

Request DR-6:

Please provide the current undepreciated capital cost of all NS Power generation units.

Response DR-6:

Please refer to the table below.

($ millions)	Net Book Value at December 31, 2023
Burnside Combustion Turbine	28.7
LM 6000 TUC 4	45.1
LM 6000 TUC 5	35.8
Tusket Combustion Turbine	9.5
Victoria Junction Combustion Turbine	13.5
Total Gas Turbine	**132.6**
Annapolis Tidal	22.5
Avon	12.8
Bear River	49.8
Black River	43.8
Dickie Brook	13.8
Fall River	2.1
Harmony	0.8
Hydro General	15.1
Lequille	36.3
Mersey	27.2
Mersey & Milton Heavy Maintenance	9.5
Roseway	0.3
Sheet Harbour	23.2
St. Margaret's	42.2
Tusket	18.4
White Rock	1.1
Wreck Cove	151.1
Total Hydro	**469.9**

($ millions)	Net Book Value at December 31, 2023
International Coal Pier	15.8
Lingan 1-2	17.8
Lingan 3-4	114.3
Lingan Common	103.7
PH Biomass	168.6
Point Aconi	319.8
Point Tupper 1	41.5
Point Tupper Common	55.7
Point Tupper Marine Terminal	17.2
Steam General	8.2
Trenton 5	79.5
Trenton 6	148.9
Trenton Common	52.6
Tufts Cove 1	16.5
Tufts Cove 2	28.8
Tufts Cove 3	46.3
Tufts Cove 6	63.7
Tufts Cove Common	56.9
Total Steam	**1,355.8**
Solar	1.5
Total Solar	**1.5**
Digby	42.3
Nuttby	56.9
Point Tupper	13.1
Sable	7.9
South Canoe	64.3
Wind General	1.7
Total Wind	**186.2**

1

NON-CONFIDENTIAL

Request DR-7:

Please indicate what new fast acting generation and applicable MWs NS Power expects will be in service prior to 2030 and how it believes any such generation should be classified. Please provide a similar response for the period 2030-2035.

Response DR-7:

As per NS Powers Path to 2030 report, filed with the Board on December 22, 2023, as part of the 2024 ACE Plan proceeding (M11017), NS Power expects 300 MW of fast acting generation to be in service in 2027 and an additional 300 MW to be in service by 2030.

NS Power proposes that new fast acting generation operating at an annual capacity factor not exceeding 17 percent[1] be classified 100 percent to demand. The fast-acting generation of longer duration should have a portion of its investment reclassified to energy in the following manner:

- Units of intermediate capacity factors, ranging from 17 percent to 46 percent, should be classified to energy based on their individual capacity factors.

- Units of operating at annual capacity factor in excess of 46 percent should be classified to energy based on the system load factor.

Please refer to PHP DR-2 for more details.

In the 2030 to 2035 period, NS Power expects further fast acting generation additions will be needed. The range of "No Atlantic Loop" scenarios in the 2022 Evergreen IRP demonstrate that between 150 MW and 450 MW of fast acting generation is added between 2030 and 2035.

[1] The 17% capacity factor is derived from NARUC's manual operating hours assumption for peak load generation units not exceeding 1,500 hours.

NON-CONFIDENTIAL

Request DR-8:

Please indicate all types and MWs of new generation other than wind and solar that NS Power expects to be added to its system between 2025-2030 and between 2030-2035 other than referred to in the response to request number 7, and how NS Power believes such generation, if any, should be classified.

Response DR-8:

Beyond new wind and solar additions, and the identified fast acting generation capacity provided in response to PHP DR-7 NS Power does not expect any new generation to be added, however, NS Power does expect additional changes to the available supply side resources by 2030. NS Power expects 300-400 MW of Energy Storage Resources to be added between 2025 and 2030, inclusive of the 150 MW BESS project currently before the Board[1]. In addition, a fuel conversion at Point Tupper (coal to gas) and Lingan 1/3/4 switching to operate on oil are expected fuel transitions by 2030.

Similar to dispatch limited renewable resources, storage due to its diminishing ELCC return to additional capacity should be classified on the ELCC factor.[2]

The Point Tupper upon its conversion from coal to gas and Lingan units burning oil should continue to have a portion of their costs reclassified to energy if their annual capacity factor exceeds 17 percent. Please refer to PHP DR-2 and PHP DR-4 for more details.

Beyond 2030 greater uncertainty exists, but in the 2022 Evergreen IRP, new wind and fast acting generation resources are added in all "No Atlantic Loop" scenarios between 2030 and 2035. In addition, some scenarios saw additional battery capacity added in this time period.

[1] The Path to 2030 (M11017), Dec 2023, page 6
[2] Planning Reserve Maring and Capacity Value Study, July 2019 report provide by Energy Environmental Economics, Section 4.3.3 Storage page 61.

Request DR-9:

Please provide a breakdown of NS Power's hydro resources by MWs between 1) run of river non-dispatchable and 2) ponded and dispatchable.

Response DR-9:

The table below shows the breakdown of NS Power's hydro resources by run of river dispatchable and ponded, dispatch limited. NS Power views its run-of-river hydro generation as a dispatchable resource as they are deemed to have sufficient pondage such that they are equivalent to firm resources from a reliability perspective. Wreck Cove, however, is treated as a dispatch-limited resource.

Name	**Type**	**Capacity (MW)**
Avon	Run of river dispatchable	6.8
Black River	Run of river dispatchable	22.5
Nictaux	Run of river dispatchable	8.3
Lequille	Run of river dispatchable	11.2
Paradise	Run of river dispatchable	4.7
Mersey	Run of river dispatchable	42.5
Sissiboo	Run of river dispatchable	24.0
Bear River	Run of river dispatchable	13.4
Tusket	Run of river dispatchable	2.4
St Margarets	Run of river dispatchable	10.8
Sheet Harbour	Run of river dispatchable	10.8
Dickie Brook	Run of river dispatchable	3.8
Fall River	Run of river dispatchable	0.5
Total Run of River Dispatchable		**161.7**
Wreck Cove	Ponded, dispatch limited	212.0
Total Ponded and Dispatch Limited		**212.0**
Total Capacity		**373.7**

NON-CONFIDENTIAL

Request DR-10:

Please refer to the E3, Overview of PRM Study (August 7, 2019) Presentation. Please explain if NS Power has commissioned an update of their PRM Study. If the answer is in the affirmative, please explain when the updated version is expected to be available. If the answer is in the negative, please explain when NS Power would expect that the next PRM Study would be commissioned.

Response DR-10:

NS Power has not commissioned an update to the PRM study. As per PHP DR-3, a minor update was done in 2020 to the values in Table 18.

NS Power expects the need for future updates will be determined based on changes to system conditions relative to those used in the study.

NON-CONFIDENTIAL

Request DR-11:

Please refer to the E3, Overview of PRM Study (August 7, 2019) Presentation, Slide 23. Please provide the ELCC (MW and %) for individual generating resources as opposed to resource type. If the data for individual generators is not available, please explain why, and whether or not it would be possible to provide ELCC values for individual generators in future PRM studies.

Response DR-11:

NS Power does not have the ELCC values for individual units. The output delivered by E3 as part of this engagement had similar generation assets grouped together.

If individual generator ELCC values were desired as an outcome from future PRM studies this would need to be included in the scope of work for the study and would be dependant on finding a consultant/organization capable of meeting this deliverable. There is anticipated to be limited benefit of separating the ELCC calculation for units with similar operating characteristic.

REDACTED

Request DR-12:

Please provide variations of the 2023 Cost Of Service Study Analysis with the following changes:

(a) PHP included as a standalone customer class with a demand allocation of no more than 9 MW minus any energy use of the biomass plant. Assume that this demand allocation would be used for all demand based allocators regardless of the number of CPs.

(b) All changes included in subpart a, and the updates to the functional allocation of all generation plant and PPA expense based on ELCC. The ELCC % should serve as the demand allocation with all other costs placed into energy.

(c) All changes included in subpart a, and transmission expense functionalized 100% on demand and allocated on 3-CP.

(d) All changes included in subparts b and c.

Preamble to response:

Following discussion between PHP and NS Power, PHP has revised part (a) as follows:

(a) PHP included as a standalone customer class under the following scenario, Energy requirement of 993,765,600 kWh, 3CP of 27,000 kWs, and annual system coincident peak of 9,000 kWs with 0 kWs across all hours being treated as firm load.

Response DR-12:

(a-d) Please refer to Confidential Attachment 7 for the summary of cost increases by rate class under the four scenarios requested. Please note that the variances provided in Attachment 7 comparing ELIADC vs. PHP as a standalone ATL class are comparing against 2023 test year information. These variances will fluctuate as marginal costs of fuel increase or decrease compared to the embedded fuel cost.

The supporting calculations under questions (a) through (d) are included in the following attachments:

- Confidential Attachment 1 includes 2023 COSS calculations in response to part (a).
- Confidential Attachment 2 includes 2023 COSS calculations in response to part (b).
- Confidential Attachment 3 includes 2023 COSS calculations in response to part (c).
- Confidential Attachment 4 includes 2023 COSS calculations in response to part (d).
- Confidential Attachment 5 includes 2023 Base Cost of Fuel calculations in response to part (a) and part (c).
- Confidential Attachment 6 includes 2023 Base Cost of Fuel calculations in response to part (b) and part (d).

Discussion of modeling assumptions:

The calculations reflect the same class usage as that from the 2023 COSS in NS Power's 2023-24 GRA (M10431) with the exception of the monthly system coincident demands of PHP which was reduced from [redacted] kWs, as used under the ELIADC rate, to 9,000 kWs.

The non-fuel revenues of $3.339 million of all the below-the-line (BTL)[1], or Annually Adjusted Rates (AARs), with the exception of the ELIADC rate class, which are subtracted

[1] Please refer to columns (1) through (8), in line (94) of Page 6 of 6 of Exhibit 4 – Detail of the 2023 COSS.

from the total non-fuel revenue requirement applicable to the above-the-line (ATL) rate classes, have been kept constant. Ordinarily, these components are changed iteratively with changes in the COSS. However, given the low material effect of such changes on the ATL revenue requirement combined with increased complexity of calculations when the AARs are changed in parallel with changes in the COSS, the non-fuel rate components of AARs have been frozen. This was accomplished by creating a duplicate Exh 4 Detail (HC) with hardcoded values from the 2023 COSS.

Also, to avoid the complexity of iterative calculations involved in functionalization of overhead O&M costs among the service areas of generation, transmission, distribution and retail, the functionalization factors in Exh 8c have been kept constant. This was achieved by creating a duplicate tab Exh 8c (HC) with hardcoded values from the 2023 COSS. NS Power estimates the effect of such changes to be immaterial for the purposes of these cost simulations.

Base Cost Fuel (BCF) files, included in Confidential Attachments 3 and 5, reflect details behind fuel cost allocation to rate classes, included in the COSS models. A change in the method of classification of generation costs from the System Load factor to the ELCC factor based necessitates creation of two versions of these files:

- Confidential Attachment 3: Classification based on the System Load factor, used in parts (a) and (c)
- Confidential Attachment 5: Classification based on the ELCC factors is used in parts (b) and (d)

The ELCC factors, used in responses to parts (b) and (d) are consistent with the information provided in response to PHP DR-3.

PHP's customer-related inputs and weighting factors are consistent with the Large Industrial rate class. Cells that are modified for the scenarios are shaded orange.

COSS PHP DR-12 Confidential Attachment 1 has been removed due to confidentiality.

COSS PHP DR-12 Confidential Attachment 2 has been removed due to confidentiality.

COSS PHP DR-12 Confidential Attachment 3 has been removed due to confidentiality.

COSS PHP DR-12 Confidential Attachment 4 has been removed due to confidentiality.

COSS PHP DR-12 Confidential Attachment 5 has been removed due to confidentiality.

COSS PHP DR-12 Confidential Attachment 6 has been removed due to confidentiality.

COSS PHP DR-12 Confidential Attachment 7 has been removed due to confidentiality.

REDACTED

Request DR-13:

Please provide the following data for every monthly CP over the past five years (2019-2023):

(a) System Peak without PHP's load

(b) System Peak with PHP's load

(c) Demand of each customer class

(d) PHP Demand

(e) Specify whether the individual monthly CP was an emergency and/or a reliability event at the time of the CP

(f) Time and date

Response DR-13:

The sampled hourly data for customer classes Residential, Small General, General Demand, Small Industrial and Medium Industrial has been built from the Load Research Sample (LRS), which was designed to achieve a 10 percent precision and 90 percent confidence in 2017. The LRS sample has been adjusted in such a way that the sum of the hours within each month, match its respective customer class monthly sales. 2023 AMI data for these customer classes will be available later in 2024. The rest of the customer classes (e.g. Large Industrials) are 100 percent sampled and therefore not adjusted.

(a-f) Please refer to Partially Confidential Attachment 1 (all units in kW).

REDACTED COSS PHP DR-13 Attachment 1 Page 1 of 2

Date	Hour	NSR without PHP	NSR with PHP	Residential	Residential TOU	Small General	General	Large General	Small Industrial	Medium Industrial	Large Industrial Interruptible	Large Industrial Firm	RTP	PHP	GRLF	Municipal	Unmetered	Shore Power (kW)	Event type
1/17/2019	1900	[redacted]	2,033,110.0	933,498.1	32,349.9	47,261.1	341,624.4	49,637.0	38,916.6	56,359.5	79,686.0	15,188.0	[redacted]	[redacted]	137.0	37,104.0	17,475.8	[redacted]	
2/27/2019	800		2,060,310.0	1,048,622.1	37,621.3	60,031.2	419,341.8	51,885.0	39,221.0	60,494.2	81,993.0	15,892.0			12,121.0	41,367.0	3,057.1		
3/8/2019	800		1,887,620.0	995,164.6	37,838.3	54,225.0	390,011.8	50,416.0	36,689.3	59,282.9	76,182.0	15,846.0			319.0	38,584.0	1,915.4		
4/3/2019	1300		1,658,280.0	688,523.2	50,963.1	57,770.4	384,396.7	52,909.0	44,470.6	66,014.5	81,299.0	15,985.0			632.0	30,888.0	1,915.4		
5/14/2019	1800		1,531,530.0	748,573.5	24,932.0	36,316.8	300,720.3	46,549.0	39,062.0	62,459.2	75,601.0	15,394.0			171.0	25,795.0	1,915.4		
6/26/2019	1400		1,263,200.0	338,137.0	12,008.5	39,471.6	330,101.6	56,042.0	39,789.5	74,483.4	89,412.0	16,956.0			949.0	20,634.0	1,915.4		
7/31/2019	1700		1,316,950.0	539,422.4	18,358.1	49,198.3	363,831.6	63,052.0	42,868.8	76,971.3	83,075.0	14,433.0			3,030.0	25,548.0	1,915.4		
8/29/2019	1800		1,376,250.0	466,594.5	16,613.3	27,598.7	329,461.2	57,136.0	28,786.8	58,744.1	91,747.0	11,158.0			214.0	22,236.0	1,915.4		
9/3/2019	1100		1,273,180.0	346,254.7	11,071.6	43,451.8	316,136.0	63,031.0	32,593.6	77,599.9	85,851.0	17,292.0			975.0	22,484.0	1,915.4		
10/28/2019	800		1,372,820.0	481,288.1	17,769.3	39,970.4	249,505.9	48,159.0	25,315.7	55,593.9	80,128.0	16,950.0			362.0	24,547.0	17,475.8		
11/18/2019	1800		1,691,960.0	743,219.1	25,412.0	33,959.9	306,605.5	48,670.0	33,240.9	64,126.9	86,609.0	16,893.0			(242.0)	30,335.0	15,727.1		
12/19/2019	1800		1,832,980.0	933,058.6	46,311.7	49,178.1	373,904.1	49,930.0	40,798.9	54,216.2	56,178.0	18,756.0			1,457.0	35,474.0	17,475.8		
1/17/2020	1800		2,050,340.0	1,067,563.9	39,930.4	48,828.3	368,773.3	49,729.0	32,482.1	55,511.2	79,257.0	18,314.0			(276.0)	40,394.0	13,143.5		
2/21/2020	800		1,950,640.0	997,694.1	40,913.0	60,535.6	396,129.0	49,604.0	40,417.3	58,180.6	78,822.0	15,520.0			(82.0)	39,791.0	4,243.1		
3/7/2020	1300		1,897,520.0	825,762.3	73,741.5	50,688.2	341,795.7	42,596.0	27,339.6	49,686.1	71,845.0	16,397.0			(249.0)	34,002.0	1,858.7		
4/28/2020	1800		1,561,223.6	777,506.7	31,054.1	30,803.2	255,798.6	40,164.0	24,558.3	58,753.3	51,748.0	12,385.0			2,443.0	27,085.0	1,858.7		
5/10/2020	1100		1,415,858.7	702,493.7	33,127.2	33,870.7	214,387.2	35,382.0	21,171.5	45,673.2	41,629.0	11,917.0			3,864.0	22,572.0	1,858.7		
6/25/2020	1800		1,237,340.6	585,907.0	15,935.1	25,195.7	286,050.5	49,325.0	29,307.5	53,427.2	80,769.0	10,664.0			1,146.0	21,649.0	1,858.7		
7/28/2020	1800		1,412,378.9	600,981.8	18,193.3	31,277.8	309,260.7	52,788.0	27,234.9	66,877.6	80,160.0	11,202.0			1,123.0	22,151.0	1,858.7		
8/5/2020	1800		1,365,198.2	612,293.5	18,692.5	25,820.3	304,892.8	51,271.0	24,438.5	61,142.4	83,907.0	10,968.0			1,127.0	23,017.0	1,858.7		
9/30/2020	1800		1,360,311.1	491,008.3	17,288.6	23,592.2	279,387.8	52,155.0	23,962.1	58,006.7	85,797.0	11,224.0			1,472.0	22,868.0	1,858.7		
10/30/2020	1300		1,515,194.4	528,054.5	28,484.8	49,875.1	320,706.5	46,146.0	43,545.2	73,316.9	80,358.0	12,324.0			2,218.0	26,682.0	1,858.7		
11/24/2020	1800		1,679,385.3	727,514.9	30,069.1	39,650.9	322,474.3	43,727.0	32,246.1	62,095.6	77,293.0	12,611.0			2,347.0	30,405.0	16,110.1		
12/16/2020	1800		1,916,474.1	1,026,165.1	45,651.8	47,807.7	341,626.2	45,327.0	38,665.7	59,706.1	80,860.0	12,723.0			1,151.0	34,739.0	16,958.6		
1/24/2021	1800		1,836,156.7	914,212.3	64,785.8	41,081.5	280,954.5	38,592.0	34,899.8	46,770.5	68,575.0	11,884.0			928.0	32,025.0	12,295.2		
2/12/2021	900		1,950,969.4	942,165.1	39,743.0	62,900.5	423,439.2	48,283.0	48,458.6	67,650.8	80,779.0	13,018.0			803.0	38,442.0	1,858.9		NB Imports curtailed. Alerts but no interruptions
3/2/2021	1900		1,968,380.6	1,108,057.9	44,350.7	47,287.1	361,584.4	43,726.0	32,629.5	68,422.0	76,732.0	12,142.0			517.0	38,179.0	13,993.0		
4/4/2021	1300		1,654,368.2	809,968.5	52,535.0	34,486.4	232,739.9	36,498.0	24,425.1	43,324.7	58,857.0	12,138.0			607.0	27,885.0	1,858.9		
5/8/2021	1300		1,504,095.4	710,010.9	44,348.9	35,317.0	224,250.1	37,023.0	24,204.8	43,491.9	73,014.0	11,214.0			543.0	23,033.0	1,858.9		LIIR Interruption - Team Yellow only
6/28/2021	1700		1,308,580.8	510,936.8	19,824.3	43,056.4	329,580.6	58,660.0	37,041.7	65,743.7	78,225.0	11,142.0			1,290.0	23,442.0	1,858.9		
7/20/2021	1800		1,352,190.0	536,913.5	18,839.9	33,676.9	307,186.1	53,985.0	31,242.9	63,179.8	78,600.0	11,276.0			5,000.0	22,295.0	1,858.9		
8/24/2021	1700		1,418,952.8	581,099.0	18,798.2	45,405.3	359,643.3	58,480.0	31,994.2	56,677.2	94,355.0	10,809.0			4,040.0	25,081.0	1,858.9		
9/10/2021	1100		1,350,712.1	440,207.3	13,915.7	51,183.5	325,913.3	58,028.0	44,227.9	69,422.9	83,602.0	10,178.0			767.0	24,740.0	1,858.9		
10/27/2021	1800		1,476,988.0	559,608.7	20,482.2	37,112.9	260,060.6	43,663.0	22,406.1	56,756.3	82,336.0	11,660.0			1,149.0	25,284.0	1,858.9		
11/24/2021	1800		1,724,411.0	782,750.9	27,353.5	43,962.5	303,712.9	45,124.0	29,252.5	67,152.0	85,614.0	12,193.0			1,796.0	30,048.0	16,111.3		
12/24/2021	1800		1,956,573.9	1,051,725.0	47,395.9	42,125.3	325,373.6	41,154.0	35,168.7	39,014.9	31,950.0	12,011.0			(3,681.0)	33,204.0	16,959.8		
1/11/2022	1800		2,215,698.3	1,220,427.5	43,984.3	59,248.5	388,045.3	46,042.0	43,402.4	64,654.1	78,629.0	12,999.0			494.0	39,899.0	14,368.7		
2/15/2022	1900		2,112,012.5	1,155,159.8	41,622.3	60,376.3	355,238.9	45,321.0	40,893.9	64,078.8	74,316.0	12,094.0			109.0	39,110.0	15,633.1		

Date	Hour	NSR without PHP	NSR with PHP	Residential	Residential TOU	Small General	General	Large General	Small Industrial	Medium Industrial	Large Industrial Interruptible	Large Industrial Firm	RTP	PHP	GRLF	Municipal	Unmetered	Shore Power (kW)	Event type
3/1/2022	800	[redacted]	2,023,986.7	1,102,408.6	45,672.7	64,628.6	399,369.3	47,793.0	48,092.6	82,810.0	68,460.0	12,314.0	[redacted]	[redacted]	974.0	39,723.0	1,852.1	[redacted]	Alerts but no interruptions
4/4/2022	1800		1,720,055.1	870,150.7	32,480.9	46,811.0	283,827.5	42,958.0	30,794.3	58,209.8	70,573.0	9,224.0			743.0	29,958.0	1,852.1		
5/5/2022	1500		1,421,875.4	488,402.8	20,732.9	54,990.2	288,282.8	44,672.0	38,730.2	69,496.3	84,215.0	10,801.0			700.0	21,776.0	1,852.1		
6/27/2022	1800		1,272,002.0	551,992.6	15,031.2	30,454.9	288,988.1	48,789.0	34,115.2	57,257.8	76,020.0	10,300.0			5,332.0	21,258.0	1,852.1		
7/24/2022	1800		1,401,707.8	643,713.4	23,047.6	38,346.8	283,727.6	45,917.0	26,785.2	44,831.9	68,000.0	11,247.0			807.0	22,358.0	1,852.1		
8/7/2022	1800		1,433,009.8	649,515.9	28,311.6	34,628.0	281,274.8	47,365.0	22,732.5	41,682.4	77,308.0	11,512.0			1,313.0	23,396.0	1,852.1		
9/14/2022	1300		1,336,455.2	351,618.6	17,727.1	45,314.7	333,331.8	57,892.0	43,219.0	76,387.8	89,517.0	14,391.0			4,729.0	24,394.0	1,852.1		
10/31/2022	900		1,355,505.8	564,745.3	19,423.2	50,947.7	312,922.8	45,424.0	43,504.1	63,835.9	75,146.0	15,277.0			2,726.0	24,075.0	10,657.6		
11/24/2022	900		1,775,727.2	781,138.3	26,040.0	56,968.6	379,410.9	46,856.0	52,098.1	81,480.1	80,894.0	16,178.0			2,148.0	32,148.0	1,852.1		LIL trip. LIIR Interruptions
12/13/2022	1800		1,973,474.6	913,180.0	36,621.1	54,829.2	329,375.4	36,918.0	38,635.3	56,698.8	80,527.0	15,644.0			4,158.0	34,054.0	16,898.2		
1/12/2023	900		1,915,457.3	-	-	-	-	-	-	-	55,665.0	14,328.0			298.0	38,236.0	1,828.2		LIIR Interruptions
2/4/2023	1200		2,467,301.9	-	-	-	-	-	-	-	49,174.0	11,283.0			(3,073.0)	47,289.0	1,828.2		LIIR Interruptions & 25,000 customers out.
3/1/2023	900		1,868,281.9	-	-	-	-	-	-	-	79,415.0	16,821.0			458.0	35,729.0	1,828.2		
4/3/2023	800		1,739,814.6	-	-	-	-	-	-	-	75,191.0	15,526.0			1,017.0	30,725.0	12,927.7		
5/1/2023	1800		1,467,783.5	-	-	-	-	-	-	-	70,296.0	11,300.0			931.0	23,754.0	1,828.2		
6/5/2023	1800		1,430,890.1	-	-	-	-	-	-	-	74,481.0	13,485.0			2,833.0	23,611.0	1,828.2		
7/24/2023	1800		1,468,473.7	-	-	-	-	-	-	-	72,715.0	11,751.0			3,382.0	24,124.0	1,828.2		
8/14/2023	1800		1,409,208.3	-	-	-	-	-	-	-	86,694.0	12,414.0			3,375.0	22,034.0	1,828.2		
9/8/2023	1800		1,419,981.5	-	-	-	-	-	-	-	88,805.0	12,716.0			3,243.0	24,818.0	1,828.2		
10/30/2023	1800		1,483,252.2	-	-	-	-	-	-	-	71,814.0	11,679.0			3,483.0	26,198.0	1,828.2		
11/30/2023	900		1,768,756.2	-	-	-	-	-	-	-	77,373.0	12,507.0			3,536.0	34,790.0	1,828.2		
12/22/2023	1800		2,040,913.7	-	-	-	-	-	-	-	61,183.0	10,927.0			87.0	33,526.0	16,680.1		

Request DR-14:

Please provide the following data for any reliability/emergency events called due to limited supply of generating capacity over the past five years (2019-2023):

(a) Event duration (hours)
(b) Description of event
(c) Provide a root cause analysis if available
(d) Time and date
(e) System hourly load without PHP's load
(f) System hourly load with PHP's load
(g) Demand of each customer class
(h) PHP demand
(i) Please provide the amount of unserved energy if applicable
(j) Please identify any hours where the large industrial customer class was interrupted
(k) Please provide the level of available capacity not being used to supply customers for each hour if applicable
(l) Please provide the amount of capacity unavailable due outages or derates. Provide the data on an hourly basis and explain the type of outage (i.e. forced, maintenance, etc.)

Response DR-14:

(a-d) Please refer to table below for the 20 industrial load interruption events from 2019 to 2023. The term LIIR refers to the Large Industrial – Interruptible Rider tariff.

NON-CONFIDENTIAL

(a) Duration h:mm	(b) Event Type	(d) Start time	(d) End time	(c) Cause	(i) Unserved Energy (MWh)
3:20	LIIR Interruption	18-Jun-23 17:17	18-Jun-23 20:37	The system load exceeded the available generation capacity and operating reserve requirements	77
1:04	LIIR Interruption	1-Jun-23 17:03	1-Jun-23 18:07		19
8:06	LIIR Interruption	4-Feb-23 11:13	4-Feb-23 19:19		140
3:52	LIIR Interruption	2-Feb-23 6:24	2-Feb-23 10:16		99
1:40	LIIR Interruption	1-Feb-23 7:41	1-Feb-23 9:21		44
1:55	LIIR Interruption	12-Jan-23 8:11	12-Jan-23 10:06		47
1:32	LIIR Interruption	11-Dec-22 16:52	11-Dec-22 18:24		32
5:05	LIIR Interruption	2-Dec-22 18:00	2-Dec-22 23:05		228
1:13	LIIR Interruption	24-Nov-22 9:40	24-Nov-22 10:53		29
1:53	LIIR Interruption	15-Nov-22 17:19	15-Nov-22 19:13		56
4:18	LIIR Interruption	4-Oct-22 7:11	4-Oct-22 11:30		0
1:30	LIIR Interruption	9-Mar-22 8:16	9-Mar-22 9:46		37
5:41	LIIR Interruption	27-Jan-22 7:21	27-Jan-22 13:02		154
4:05	LIIR Interruption	22-Jan-22 9:03	22-Jan-22 13:08		93
3:31	LIIR Interruption	21-Jan-22 9:05	21-Jan-22 12:37		79
1:38	LIIR Interruption	17-Jan-22 6:28	17-Jan-22 8:06		50
3:07	LIIR Interruption	10-Dec-21 7:34	10-Dec-21 10:41		85
3:45	LIIR Interruption	25-Aug-21 17:50	25-Aug-21 21:35		23
1:29	LIIR Interruption	28-Jun-21 17:16	28-Jun-21 18:45		14
0:58	LIIR Interruption	9-Jan-21 17:21	9-Jan-21 18:20		20

(e-h) Please refer to CA DR-58 Attachment 1 for hourly data for all customer classes. 2023 data is only available for the large customers and system load.

(i) Please refer to the table in part (a-d), column (i) Unserved Energy (MWh). These values are for LIIR customers only.

(j) Please refer to the table in part (a-d), column (d) for Large Industrial class interruption times.

(k) For available capacity not being used to supply customers for hours around the events noted above, please refer to tables below in the columns labeled Generation Reserve.

Time hour-ending	Generation Reserve Avg. MW
18-Jun-23 16:00	293
18-Jun-23 17:00	124
18-Jun-23 18:00	111
18-Jun-23 19:00	142
18-Jun-23 20:00	170
18-Jun-23 21:00	213

Time hour-ending	Generation Reserve Avg. MW
01-Jun-23 16:00	287
01-Jun-23 17:00	77
01-Jun-23 18:00	122
01-Jun-23 19:00	255

Time hour-ending	Generation Reserve Avg. MW
04-Feb-23 10:00	138
04-Feb-23 11:00	137
04-Feb-23 12:00	68
04-Feb-23 13:00	139
04-Feb-23 14:00	158
04-Feb-23 15:00	205
04-Feb-23 16:00	198
04-Feb-23 17:00	152
04-Feb-23 18:00	185
04-Feb-23 19:00	255
04-Feb-23 20:00	321

Time hour-ending	Generation Reserve Avg. MW
02-Feb-23 05:00	361
02-Feb-23 06:00	242
02-Feb-23 07:00	125
02-Feb-23 08:00	132
02-Feb-23 09:00	139
02-Feb-23 10:00	250
02-Feb-23 11:00	261

Time hour-ending	Generation Reserve Avg. MW
01-Feb-23 06:00	513
01-Feb-23 07:00	353
01-Feb-23 08:00	200
01-Feb-23 09:00	187
01-Feb-23 10:00	268

Time hour-ending	Generation Reserve Avg. MW
12-Jan-23 07:00	386
12-Jan-23 08:00	192
12-Jan-23 09:00	117
12-Jan-23 10:00	208
12-Jan-23 11:00	217

NON-CONFIDENTIAL

Time hour-ending	Generation Reserve Avg. MW
11-Dec-22 15:00	222
11-Dec-22 16:00	191
11-Dec-22 17:00	108
11-Dec-22 18:00	131
11-Dec-22 19:00	203

Time hour-ending	Generation Reserve Avg. MW
02-Dec-22 17:00	305
02-Dec-22 18:00	209
02-Dec-22 19:00	118
02-Dec-22 20:00	193
02-Dec-22 21:00	170
02-Dec-22 22:00	161
02-Dec-22 23:00	173
03-Dec-22 00:00	188

Time hour-ending	Generation Reserve Avg. MW
24-Nov-22 08:00	332
24-Nov-22 09:00	401
24-Nov-22 10:00	322
24-Nov-22 11:00	221

Time hour-ending	Generation Reserve Avg. MW
15-Nov-22 16:00	279
15-Nov-22 17:00	162
15-Nov-22 18:00	120
15-Nov-22 19:00	146
15-Nov-22 20:00	186

Time hour-ending	Generation Reserve Avg. MW
04-Oct-22 06:00	290
04-Oct-22 07:00	228
04-Oct-22 08:00	145
04-Oct-22 09:00	183
04-Oct-22 10:00	179
04-Oct-22 11:00	222
04-Oct-22 12:00	229

Time hour-ending	Generation Reserve Avg. MW
09-Mar-22 07:00	312
09-Mar-22 08:00	163
09-Mar-22 09:00	113
09-Mar-22 10:00	267

Time hour-ending	Generation Reserve Avg. MW
27-Jan-22 06:00	320
27-Jan-22 07:00	259
27-Jan-22 08:00	109
27-Jan-22 09:00	57
27-Jan-22 10:00	182
27-Jan-22 11:00	178
27-Jan-22 12:00	226
27-Jan-22 13:00	192
27-Jan-22 14:00	272

Time hour-ending	Generation Reserve Avg. MW
22-Jan-22 08:00	N/A[1]
22-Jan-22 09:00	N/A
22-Jan-22 10:00	N/A
22-Jan-22 11:00	N/A
22-Jan-22 12:00	N/A
22-Jan-22 13:00	N/A
22-Jan-22 14:00	N/A

[1] Generation reserve average could not be calculated for this event.

Time hour-ending	Generation Reserve Avg. MW
21-Jan-22 08:00	286
21-Jan-22 09:00	194
21-Jan-22 10:00	168
21-Jan-22 11:00	196
21-Jan-22 12:00	228
21-Jan-22 13:00	238

Time hour-ending	Generation Reserve Avg. MW
17-Jan-22 05:00	239
17-Jan-22 06:00	217
17-Jan-22 07:00	107
17-Jan-22 08:00	204
17-Jan-22 09:00	250

Time hour-ending	Generation Reserve Avg. MW
10-Dec-21 06:00	335
10-Dec-21 07:00	270
10-Dec-21 08:00	137
10-Dec-21 09:00	204
10-Dec-21 10:00	267
10-Dec-21 11:00	308

Time hour-ending	Generation Reserve Avg. MW
25-Aug-21 16:00	164
25-Aug-21 17:00	133
25-Aug-21 18:00	106
25-Aug-21 19:00	137
25-Aug-21 20:00	145
25-Aug-21 21:00	172
25-Aug-21 22:00	178

Time hour-ending	Generation Reserve Avg. MW
28-Jun-21 16:00	164
28-Jun-21 17:00	107
28-Jun-21 18:00	80
28-Jun-21 19:00	180

Time hour-ending	Generation Reserve Avg. MW
09-Jan-21 16:00	370
09-Jan-21 17:00	261
09-Jan-21 18:00	131
09-Jan-21 19:00	213

(l) Please refer to CA DR-13 Attachment 3 for unit status, unit capability, unit maximum capacity, event type and start / end times for each event. Hourly data is not available.

NON-CONFIDENTIAL

Request DR-15:

If not provided in response to Data Request #14, please provide the data requested in Data Request #14 for the February 2023 system peak event.

Response DR-15:

Please refer to PHP DR-14.

NON-CONFIDENTIAL

Request DR-16:

Please provide the following data for any emergency events called due to issues related to the transmission system over the past five years (2019-2023):

(a) Event duration (hours)
(b) Description of event
(c) Provide a root cause analysis if available
(d) Time and date
(e) System hourly load without PHP's load
(f) System hourly load with PHP's load
(g) Demand of each customer class
(h) PHP demand

Response DR-16:

(a-d) Over the 2019 to 2023 time period, there were two Level 4 weather events that affected the transmission system and two freezing rain events that affected the transmission connection to NB (Eastern Interconnection). Please refer to the table below, where start time indicates the first trip of a transmission element, and end time indicates when the last transmission element was restored to service.

(a)	(b)	(d)		(c)
Duration (days, hours)	**Description**	**Start time**	**End time**	**Cause**
5, 20	Hurricane Dorian	7-Sep-19 10:30	13-Sep-19 7:26	Numerous trips to transmission elements caused by high winds
5,10	Transmission line icing	8-Jan-2021 14:00	14-Jan-21 0:00	Outage to line L-8001 to NB due to ice build-up, restricted energy imports. LIIR customers were interrupted on evening peak of Jan 9th for 1 hour. NS Power applied heavy current to the conductor to melt ice, and returned the line to service on Jan 14th,

(a)	(b)	(d)		(c)
Duration (days, hours)	**Description**	**Start time**	**End time**	**Cause**
6, 5	Hurricane Fiona	23-Sep-22 22:32	30-Sep-22 3:43	Numerous trips to transmission elements caused by high winds
3,13	Transmission line icing	16-Jan-23 5:31	16-Jan-23 8:48	Loss of the transmission connection to NB due to trip of line L-8001 caused by ice build-up. The automatic Under-frequency Load Shedding (UFLS) protection scheme operated to balance demand and supply, causing customer outages. Customers were restored within 4 hours, but the transmission line remained out of service for a day and a half before the ice melted.

(e-h) Please refer to CA DR-58 Attachment 1 for hourly data for all customer classes. 2023 data is only available for the large customers and system load.

NON-CONFIDENTIAL

Request DR-17:

Please describe how Generation Interconnect (Gen-Tie) facilities are currently allocated under NS Power's current COSS.

Response DR-17:

Gen-Tie facilities, connecting NS Power-owned generation to the transmission system are included in the Company's transmission rate base and costs. The Company does not track these costs and rate base separately in its accounting system and the COSS. Please refer to SBA DR-3.

The costs and investment of gen-tie facilities contributed by third party generators are excluded from NS Power's revenue requirement.

NON-CONFIDENTIAL

Request DR-18:

Please refer to the E3, Overview of PRM Study (August 7, 2019) Presentation. Please provide the methodology used by E3 in determining the ELCC values and provide any workpapers supporting the ELCC calculations shown on slide 23.

Response DR-18:

E3 used its proprietary RECAP model to calculate the ELCC values. Details on how the RECAP model works can be found in Section 2 of the Planning Reserve Margin and Capacity Value Study report which was provided as attachment 17 in the Final Pre-IRP Report, published on October 17, 2019. The report can be found on NS Power IRP website (www.nspower.ca/IRP/) under document libraries, and then under "2020 IRP – Pre-IRP Deliverables Final Report".

NS Power does not have any working papers as E3's proprietary model was used to calculate the ELCC values.

Request DR-19:

Please provide a detailed description of the current functionalization, allocation, and classification of the Maritime Link in the current COSS.

Response DR-19:

The Maritime Link (ML) imports are comprised of three components: firm, capacity backed energy delivered under the Nova Scotia and Supplemental blocks, and non-firm Surplus Energy. For a detailed description of these energy streams please refer to IG DR-5(a).

All Maritime Link (ML) import costs are functionalized to Generation.

ML imports under Nova Scotia and Supplemental Blocks are classified to energy and demand on the basis of the system load factor associated with the above-the-line (FAM) classes. All of Surplus Energy costs are classified to energy.

The demand-related portion of the above costs is allocated to each FAM class based upon its relative coincident contribution to the three monthly system peaks (3CP) occurring in December, January and February. The energy portion of these costs, with the exception of the Surplus Energy, are allocated to each class based on its relative contribution to annual energy requirement. Non-firm imports are allocated to each class based on its relative contribution to monthly energy requirements. Also, please refer to page 9 of the FAM Plan of Administration included as Attachment 4 to SBA DR-7.

NON-CONFIDENTIAL

Request DR-20:

Please explain how the contractual provisions and operational characteristics of the Maritime Link inform the current COSS allocation and treatment.

Response DR-20:

The justification of the current COSS treatment of the Maritime Link (ML) was laid out in the Strawman Report filed with the NSUARB by NS Power in January, 2017. The report is included as Attachment 1.

The current contractual provisions and operational characteristics, as reflected in IG DR-4(a), remain essentially very close to those contemplated in the Strawman Report and do not warrant a methodological revision to the cost treatment of the ML.

Nova Scotia Power

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset

Cost of Service Classification of the Maritime Link

Strawman Report

January 6, 2017

TABLE OF CONTENTS

1.0 INTRODUCTION 3
2.0 REGULATORY BACKGROUND 5
2.1 Maritime Link Project 5
2.2 Fuel Stability Application 5
2.3 Position of the Parties 8
3.0 CONCLUSION 11

1.0 INTRODUCTION

On March 7, 2016, Nova Scotia Power Inc. (NS Power or Company) filed an application with the Nova Scotia Utility and Review Board (Board or UARB) to approve the Company's proposed three year base cost of fuel (Fuel Stability Plan Application) for the calendar years 2017, 2018 and 2019 (Rate Stability Period). A Consensus Agreement among NS Power, the Consumer Advocate (CA), Small Business Advocate (SBA) and counsel for the group of companies referred to as the Industrial Group (IG) dated June 9, 2016 (Consensus Agreement) which was subsequently approved by the UARB in its Decision on the Fuel Stability Plan Application.[1] As part of that Consensus Agreement, it was agreed that the parties and any other interested stakeholders would engage in a consultative process to address allocation of the Maritime Link cost of service (COS) in 2020 and beyond. Section 4 of the Consensus Agreement states as follows:

> 4. COST OF SERVICE CLASSIFICATION OF THE MARITIME LINK
>
> The CA proposes, supported by MEUNSC, the following:
>
> (a) For the purposes of setting the Base Cost of Fuel for each year of the Rate Stability Period, the Maritime Link costs will be classified and allocated as NS Power-owned hydro generation as set out in the Company's Fuel Stability Plan Application.
>
> (b) The Parties and other interested stakeholders will engage in a consultative process to address the Maritime Link cost of service and how the Maritime Link costs will be allocated in 2020 and beyond and file a report with the Board on the outcome of such consultative process on or before March 31, 2017. Any areas of disagreement among the Parties will be resolved by the Board.
>
> (c) Any changes to classification and allocation of the Maritime Link costs from NS Power- owned hydro generation will not be made retroactive and will not be implemented prior to January 1, 2020.
>
> The IG, SBA, NS Power do not object to the CA's proposal as stated above and all Parties agree to abide by the terms of that proposal.[2]

[1] NS Power 2017-2019 Fuel Stability Plan, Decision NSUARB-129, M07348, July 19, 2016, page 25.
[2] NS Power 2017-2019 Fuel Stability Plan, Consensus Agreement, June 19, 2016, page 4 of 6.

The purpose of this Report is to summarize the various options available with respect to the Cost of Service allocation of the Maritime Link for the purposes of facilitating the consultation process.

NS Power's objective is to facilitate consensus among the parties and thereby eliminate or reduce the areas of disagreement among the parties that need to be resolved by the Board.

NS Power's cost of service studies (COSS) and rate design do not increase or reduce NS Power's recovery of its revenue requirements. COSS are solely concerned with a fair apportionment of the Company's revenue requirement among various rate classes and customers. Consistent with this, NS Power seeks to adopt a facilitative and collaborative role.

It is important to note that the COS process is connected to, but separate and distinct from rate design. The COS process is one of three steps in regulatory ratemaking, which includes the Company's revenue requirement, COS (also known as cost allocation) and rate design. Changes in the COS do not necessarily translate directly into rate changes, as rates are contingent on the Board's determination of a customer class' revenue requirement. The Board has discretion to change a customer class revenue requirement by applying Revenue to Cost Ratios, approving cost deferrals or phasing in rate changes.

NS Power requests that parties consider this Report and provide any comments to the Company either on the Report or the overall issue itself by January 27, 2017. NS Power proposes discussing the matter at the next FAM Small Working Group Meeting scheduled for February 16, 2017. The requirement for additional meetings will be discussed at that time. NS Power will prepare and submit a report to the Board on or before March 31, 2017 outlining any and all areas of agreement or disagreement on the approach.

2.0 REGULATORY BACKGROUND

2.1 Maritime Link Project

The Maritime Link project is a source of out-of-province long-term energy imports that will help position NS Power to meet its air emissions and renewable energy requirements by 2020. The project was approved by the UARB in its November 29, 2013 Decision[3].

The Maritime Link energy is comprised of two components: the Nova Scotia Block (including Supplemental Energy) and Surplus Energy. The Nova Scotia Block will include a delivery of 1.2 TWh of firm energy per year and 153 MW of capacity during on-peak periods[4] in each month of the year. The Surplus Energy represents non-firm imports. It will be priced at the ongoing wholesale market price. Its total cost will vary with changes in volume of energy delivered and pricing.

As required under the *Electricity Plan Implementation* (2015) *Act (EPIA)*, the Company's Fuel Stability Plan incorporated a forecast of the amounts to be recovered through rates over the Rate Stability Period (2017-2019) in respect of the anticipated assessment for the Maritime Link. The Company's forecast of the amounts required to be recovered in respect of the anticipated assessment for the Maritime Link, inclusive of depreciation, is $162 million for 2018 and $164 million for 2019. These amounts have been included in the Base Cost of Fuel (BCF) for 2018 and 2019 and smoothed over the three-year Rate Stability Period in accordance with the *EPIA*.

2.2 Fuel Stability Application

In its Fuel Stability Plan Application, the Company proposed the Surplus Energy, representing out-of-province imports of non-firm energy, be treated in the same way as other interruptible imports which are 100% classified to energy and allocated to rate classes based on their relative shares in the annual energy requirements.

[3] NSPML Maritime Link Project, Supplemental Decision 2013 NSUARB 242, (M05419).
[4] On-peak hours are defined as hours from 7:00 AM till 11:00 PM every day of the week.

The Company also proposed that the Nova Scotia Block be treated in the same manner as NS Power-owned hydro generation. This means that its costs would be classified to energy and demand on the basis of the system load factor associated with the Above the Line (ATL) classes. The energy-related costs would be allocated among rate classes based on their relative shares in annual energy requirements, and demand-related costs are to be allocated among rate classes based on their contribution to the three coincident system peaks. This approach would be consistent with NS Power's COSS practice.

The Company considered the following four approaches in the design stage[5]:

1. Hydro-based allocation;
2. Same treatment as regular in-province purchases;
3. Same treatment as that of fossil fuel; and
4. Same as NS Power-owned transmission.

The Company had proposed the Hydro-based approach (Approach #1) in the Fuel Stability Plan Application based on the following considerations:

(a) In NS Power's view, the volume of electrical energy to be provided under the NS Block, its long-term duration and the distinctiveness of its hydro generation source favoured treating this resource as a separate item for cost allocation purposes.

All in-province purchases from sources other than wind and biomass generation are grouped together and classified in the COSS in the same manner as NS Power's fixed costs of base load generation. They include small scale hydro and landfill gas generation. The uniform costing approach to these in-province purchases is justified by similarities in cost causation of these sources and their small overall share in the total system generation. These are must-run generation units, and their costs do not vary with changes

[5] For explanation of these approaches please refer to M07348, Exhibit N-6, NSPI (IG) IR-29, April 8, 2016.

in system load. They also represent less than one percent of NS Power's system energy requirement.

In contrast, the NS Block Energy comes from large scale hydro, has well defined energy and capacity service parameters, and represents over 10 percent of NS Power's system requirement.

(b) Given these are long-term firm imports coming from a hydro generation source, providing for delivery of both energy and capacity, and their costs do not vary with the amount of energy delivered to NS Power, the Company considered it appropriate to align its treatment with that of its own hydro assets, which exhibit similar characteristics.

(c) The proposed treatment of imports under the NS Block is consistent with the treatment of purchases from other distinct energy sources such as wind and biomass, which are also being treated in the same manner as wind and biomass generation owned by NS Power.

(d) The Company considered the issue of rate stability and the effect on rate classes of each of the four methods. The Hydro-based allocation appears the least disruptive to rate classes by keeping the percent of rate increases in each class within the narrowest range. Under the Fossil Fuel approach (Approach #3), the class cost increase effect of the Maritime Link project were treated in the same manner as the costs of the displaced fossil-fuel generation. The class revenue effects were more diverse due to the fact that classes differ in terms of their relative shares of generation costs in their total cost of service. For example, the class with the highest relative share of generation costs, the Large Industrial class, would experience an additional increase of 2.5 percent under the Fossil Fuel approach (Approach #3) compared to that under the Hydro-based allocation approach (Approach #1). By comparison, the residential class, with the lowest relative

share of generation costs, would experience an additional increase of 1.1% under the Hydro-based approach compared to that under the Fossil Fuel Approach.[6]

2.3 Position of the Parties

During the Fuel Stability Plan proceeding, both the IG and the SBA expressed support for the Hydro-based cost allocation approach.

The IG's consultant, Mr. Drazen, stated in his evidence that "the rationale for and the allocations proposed by NS Power are logical."[7]

The SBA consultant, Ms. Whitten, provided the following comments:

> Based on my review of the Consumer Advocate's suggestion that energy from the NS Block should be allocated differently than proposed by NSPI in the FSP and the Refresh, my understanding of NSPI's approach to allocate this resource in the same manner as other firm hydro projects in NSPI's portfolio is entirely logical and consistent with the existing approved cost allocation methodology.[8]

The CA's consultant, Mr. Wallach, however, recommended the adoption of a different approach. Specifically, Mr. Wallach proposed the following:

> Maritime Link revenue requirements should be classified and allocated to customer classes in proportion to the benefits to customer classes from the Maritime Link investment. Accordingly, the Board should reject NS Power's proposal to classify Maritime Link revenue requirements in the same fashion as Company-owned hydro plant costs. Instead, Maritime Link revenue requirements should be classified as 93% energy-related and 7% demand-related based on the Company's classification of Maritime Link benefits. Consistent with the treatment of other non-biomass purchases, the energy-related portion of Maritime Link revenue requirements should be allocated in proportion to each class's contribution to annual system energy requirements and the demand related portion

[6] NS Power 2017-2019 Fuel Stability Plan, Reply Evidence and Fuel Refresh, page 29, lines 24 – 27.
[7] NS Power 2017-2019 Fuel Stability Plan, IG (Mark Drazen), Intervenor Evidence, May 2, 2016, page 15, line 6.
[8] NS Power 2017-2019 Fuel Stability Plan, SBA (Melissa Whitten) Reply Evidence, June 7, 2016. Page 6, lines 19 – 23 and page 7, lines 1-3.

> should be allocated in proportion to the average of peak demands for the three winter months.[9]

Mr. Wallach expressed concern that the Hydro-allocation approach was a departure from past practice and that the underlying rationale was different from that behind the commitment to the Maritime Link project. Mr. Wallach stated:

> Second, NS Power asserts that its benefits-based approach "would not be consistent with the Company's position on treatment of purchases and imports in the 2013 COS proceeding and the approved COS methodology." In fact, the Board did not accept the Company's position on treatment of purchases. Instead, the Board-approved classification of both in-province purchases (about 80% energy-related in aggregate) and imports (100% energy-related) is more like NS Power's estimate of the benefit-based classification (93% energy-related) than the Company's proposed classification (56% energy-related).[10]

In his evidence, Mr. Wallach stated that the costs of the Maritime Link should be allocated commensurate with benefits. Mr. Wallach appears to view these benefits as characteristics/benefits of displaced resources. NS Power views these benefits strictly as characteristics of new assets, which replace the existing generation resources. Prior costing treatment of old generation displaced by new generation sources is not relevant to cost of service studies based on cost causation and asset utilization. Purchases under the Nova Scotia Block will provide for delivery of both energy and capacity in a manner similar to services provided by NS Power-owned hydro generation. The sheer amount of electrical service to be provided under the Nova Scotia Block, its permanency, and distinctiveness of its generation source qualify for a consideration of a separate costing treatment. Treating these imports as NS Power-owned hydro makes for a consistent treatment with other in-province wind and biomass purchases which are treated as NS Power-owned wind and biomass generation.

Contrary to Mr. Wallach's claim that the UARB did not accept the Company's position on treatment of the assets as replacing existing generation resources, NS Power provided quotes

[9] NS Power 2017-2019 Fuel Stability Plan, CA (Jonathan Wallach), Intervenor Evidence, May 2, 2016, page 10, lines 13-24.
[10] NS Power 2017-2019 Fuel Stability Plan, Reply Evidence and Fuel Refresh, p. 28, II, 11-13.

from the UARB's 2013 COS decision regarding this matter.[11] In its 2013 COS Decision, the UARB supported NS Power's proposed treatment of wind purchases and biomass generation. The matter of the Maritime Link cost allocation was expressly left out from the 2013 COS proceeding at the outset and no party made any proposals in this regard.

[11] NS Power 2017-2019 Fuel Stability Plan, Reply Evidence and Fuel Refresh page 28, lines 28-29, and page 29, lines 1-6.

3.0 CONCLUSION

This Report is intended to facilitate a consultative process agreed to among the Parties. In the Fuel Stability Plan, the Company had proposed the Nova Scotia Block be treated in the same manner as NS Power-owned hydro generation, but will consider alternate ratemaking solutions proposed by the parties. NS Power's preference is to preserve its current COS methodology by not introducing new exceptions to the established rules. NS Power's COSS practices represent an internally coherent set of costing concepts, rooted in cost causation.

As noted above, NS Power requests responses from Parties by January 27, 2016. NS Power proposes discussing the matter at the next FAM Small Working Group Meeting scheduled for February 16, 2017 and the Company will prepare and submit a report to the Board on or before March 31, 2017 outlining any and all areas of agreement or disagreement on the approach.

NON-CONFIDENTIAL

Request DR-21:

Further to the item listed at the second hash mark of Mr. Bowman's e-mail below, it would be very helpful if NSPI could prepare and distribute a document indicating NSPI's specific proposed classification methodology (system load factor, projected annual capacity factor, ELCC, etc.) for each of the generation units listed below and noting the proposed (based on current information) demand/energy split for each arising from NSPI's proposed classification. During the course of the various sessions and in the modelling it was not fully clear what approach NSPI was proposing vis-à-vis each unit and a single page document showing this would be very helpful. We also assume the updated modelling would then reflect what is in this document as the NSPI proposed case assumptions in this regard. Thanking you in advance.

(i) Lingan 1
(ii) Lingan 2
(iii) Lingan 3
(iv) Lingan 4
(v) Point Aconi
(vi) Point Tupper
(vii) Trenton 5
(viii) Trenton 6
(ix) Tufts Cove 1
(x) Tufts Cove 2
(xi) Tufts Cove 3
(xii) Tufts Cove 4
(xiii) Tufts Cove 5
(xiv) Tufts Cove 6
(xv) Each of the 4 Burnside CTs
(xvi) Each of the 2 Victoria Junction CTs
(xvii) Tusket CT

(xviii) NSPI Wind Generation

(xix) NSPI Batteries

(xx) NSPI Hydro Generation

Response DR-21:

Please refer to Attachment 1.

COSS PHP DR-21 Attachment 1 has been filed electronically.

Request DR-22:

Reference: Verbal request from July 16, 2024 Modelling Session.

(a) Confirm what is included in Biomass, and how it is allocated.

(b) Confirm what is Maritime Link and what is surplus, etc. (Explain what is in each bucket relevant to the cost of service)

Response DR-22:

(a) The Biomass category includes energy from the following sources:

1. COMFIT biomass,
2. FW Taylor Lumber, and
3. Brooklyn Power.

In classifying and allocating the in-province, purchased power from biomass generation other than that from PHP, NS Power follows the Plan of Administration Section 3 Part 4b which provides as follows:

> In-province purchased power from biomass generation will be classified between energy and demand in the same proportion as classification of total costs of the Port Hawkesbury biomass plan.

Please refer to the following tabs of the 2023 – BCF Allocation PARTIALLY CONFIDENTIAL revised.xlsx spreadsheet for the allocation process of purchased biomass costs.

- Tab "Biomass Calculations" provides relative shares of capital, fuel and operating costs of Port Hawkesbury Plant (PHP) biomass which are used to derive a

breakdown between fuel (34.3 percent) and non-fuel (65.75 percent) costs of other biomass purchases.

- Tab "Rate Base Classification" provides classification of non-fuel generation costs to demand (35.6 percent) and energy (64.4 percent) in cells I47 and J47.

- Section "Purchased Power – Biomass" in columns K to N of tab "BCF Allocation" includes calculations behind classification of biomass costs to energy and demand and allocation of these costs to rate classes.

(b) Please refer to part (a) of IG DR-04 for details behind energy flows under the Maritime Link (ML).

Please refer to the following excerpt from the FAM Plan of administration (POA) for the costing treatment of the ML:

> d. Maritime Link imports under Nova Scotia Block will be classified to energy and demand on the basis of the system load factor associated with the above the-line (FAM) classes.
>
> e. Non-firm imports will be all classified to energy.

The demand-related portion of these costs will be allocated to each class based upon its relative coincident contribution to the three-monthly system peaks (3CP) occurring in December, January, and February. The energy portion of these costs, with the exception of the non-firm imports, will be allocated to each class based on its relative contribution to annual energy requirement. Non-firm imports will be allocated to each class based on its relative contribution to monthly energy requirements.[1]

[1] FAM Plan of Administration in Effect for 2023-2024, Section 3.0 Calculation of the FAM Rate, Page 9.

NON-CONFIDENTIAL

Request DR-23:

Reference: Verbal request from David MacDougall during July 16, 2024 Modelling Session.

Provide calculation of capacity factors.

Response DR-23:

Please refer to Attachment 1.

COSS PHP DR-23 Attachment 1 has been filed electronically.

REDACTED

Request DR-24:

Reference: Email from David MacDougall on October 22, 2024 titled "COSS - Models and DRs."

Provide a model run that incorporates all of NSPI's proposed COSS positions including all currently planned plant fuel conversions using the GRA BCF refresh fuel data with PHP's load remaining below the line as an incremental load customer.

Response DR-24:

Please refer to Confidential Attachment 1 and Confidential Attachment 2.

COSS PHP DR-24 Confidential Attachment 1 has been removed due to confidentiality.

COSS PHP DR-24 Confidential Attachment 2 has been removed due to confidentiality.

REDACTED

Request DR-25:

Reference: Email from David MacDougall on October 22, 2024 titled "COSS - Models and DRs."

Provide a model run that incorporates all of NSPI's proposed COSS positions including all currently planned plant fuel conversions using the GRA BCF refresh fuel data with PHP's load being treated as an above the line COSS customer with zero MWs of firm demand in all hours (ie. no demand cost allocation). (For clarity, the only difference from the model run requested in item 1 being the move of PHP load from below the line to above the line as described.)

Response DR-25:

Please refer to Confidential Attachment 1 and Confidential Attachment 2.

COSS PHP DR-25 Confidential Attachment 1 has been removed due to confidentiality.

COSS PHP DR-25 Confidential Attachment 2 has been removed due to confidentiality.

REDACTED

Request DR-26:

Reference: Email from David MacDougall on October 22, 2024 titled "COSS - Models and DRs."

Provide a model run that incorporates all of NSPI's proposed COSS positions that would apply post 2030 (ie. incorporating all currently planned plant fuel conversions and all plant retirements) using if possible the GRA BCF refresh fuel data (or other identified fuel input data and assumptions) with PHP's load being treated as an above the line COSS customer with zero MWs of firm demand in all hours (ie. no demand cost allocation). (For clarity, this run should include all fossil units anticipated to be converted or shut and referable costs transferred to the DDA being fully accounted for.)

Response DR-26:

Please refer to Confidential Attachment 1 and Confidential Attachment 2.

COSS PHP DR-26 Confidential Attachment 1 has been removed due to confidentiality.

COSS PHP DR-26 Confidential Attachment 2 has been removed due to confidentiality.

REDACTED

Request DR-27:

Reference: Email from David MacDougall on October 22, 2024 titled "COSS - Models and DRs."

Please rerun the October model runs 10a and 10c with PHP's load being treated as an above the line COSS customer with zero MWs of firm demand in all hours (ie. no demand cost allocation).

Response DR-27:

October model runs 10a classify steam generation by capacity factor of 29.46 percent instead of the System Load Factor (SLF).

NS Power has found an error in the October model runs 10a. The classification of wind plant in line 5 of tab Exh 2b of 2023 COSS was done in reverse. Instead of reclassifying 82 percent of wind plant to Energy, 18 percent was reclassified. Please find the corrected COSS and BCF models in Confidential Attachment 5 and Confidential Attachment 6.

Please refer to the following attachments which contain the revised COSS calculations treating PHP's load as an above-the-line COSS customer with zero MWs of firm demand in all hours.

- 10a revised:
    - Confidential Attachment 1: 2023 COSS with PHP's load being treated as an above-the-line (ATL) customer with zero MWs of firm demand in all hours. The reclassification of wind plant in tab Exh 2b has been corrected.

- Confidential Attachment 2: 2023 BCF COSS with all purchases, other than wind and Maritime Link, classified to energy based on weighted average system generation factor reflective of steam generation classified as above.

October Model runs 10c classify all generation, that is currently classified by SLF, using operating factors. Please refer to case 10d revised in CA DR-84 for details.

- 10c revised:

  - Confidential Attachment 3: 2023 COSS with all generation, other than wind, classified to energy based on operating factors with PHP's load being treated as an ATL customer with zero MWs of firm demand in all hours.

  - Confidential Attachment 4: 2023 BCF COSS with biomass and non-wind purchases classified to energy based on weighted average system generation factor reflective of classification based on operating factors as used in the 2023 COSS model and Maritime Link costs classified based on its operating factor reflective of equivalent availability of the ML and the Muskrat Falls/LIL system.

COSS PHP DR-27 Confidential Attachment 1 has been removed due to confidentiality.

COSS PHP DR-27 Confidential Attachment 2 has been removed due to confidentiality.

COSS PHP DR-27 Confidential Attachment 3 has been removed due to confidentiality.

COSS PHP DR-27 Confidential Attachment 4 has been removed due to confidentiality.

COSS PHP DR-27 Confidential Attachment 5 has been removed due to confidentiality.

COSS PHP DR-27 Confidential Attachment 6 has been removed due to confidentiality.

NON-CONFIDENTIAL

Request DR-28:

Reference: Email from David MacDougall on October 22, 2024 titled "COSS - Models and DRs."

Reference the October 11, 2024 General Plant memo.

(a) Using the AMI project $12M provide an example of how that investment would be functionalized and allocated.

(b) For each line item in the chart at the bottom of page 1 and the top of page 2 please indicate generally the portion of each item that is anticipated to be functionalized as generation, transmission, distribution or retail.

Response DR-28:

(a) As referenced in the memo, the approximate investment of $12 million related to the Advanced Meter Infrastructure project was directly in the Communication Equipment asset pool. Given the purpose of the investment in NS Power's Switched Telecom Systems was to support the deployment of Advanced Meter Infrastructure, NS Power would propose this investment be directly functionalized to Retail and classified 100 percent to Customer Service, as the primary purpose of these investments is to communicate metering data for the purpose of billing. The allocation to rate classes would be done based on their shares in customer counts.

(b) NS Power has not proposed to review the functionalization of all the rate base and depreciation cost items within General Plant. As suggested in the response, where appropriate, NS Power proposes that investment in the computer software and communication equipment be directly functionalized to Generation, Transmission, Distribution, and Retail service areas. This change recognizes that the preferred method of

functionalization is to assign General Plant rate base and depreciation costs directly to a specific functional area when the purpose of the investment can be tied to it instead of apportioning it among service areas based on a proration formula. This represents a refinement to the existing process to more accurately functionalize General Plant that has seen a large increase in investment. The analysis to determine which investments in General Plant can be directly functionalized among Generation, Transmission, Distribution, and Retail has not yet been completed, as it requires analysis with subject matter experts, and manual calculations of the individual assets' net book values. This process will be done as part of future general rate applications.

NON-CONFIDENTIAL

Request DR-29:

Reference: Email from David MacDougall on October 22, 2024 titled "COSS - Models and DRs."

It is PHP's understanding that NSPI is reviewing its position on the Maritime Link to consider potential treatment that functionalizes the Maritime Link at least in part as transmission. Please confirm NSPI's position on the Maritime Link treatment pre and post 2030 when finalized. If finalized in time please incorporate that position in the model runs noted above.

Response DR-29:

No. NS Power is not reviewing its position on the Maritime Link to consider potential treatment that functionalizes the Maritime Link at least in part as transmission.

NS Power advocates status quo regarding costing methodology applicable to Maritime Link (ML) going forward.

As provided in response to IG DR-04, the only significant change in the ML component-mix in the near-term will be termination of the Supplemental energy by the end of March 2027. The Supplemental energy is currently functionalized to generation and classified based on the system load factor. Its disappearance will be of no consequence to the costing treatment of the NS Block and Surplus energy.

REDACTED

Request DR-30:

Provide a model run that incorporates all of NSPI's lastest changes to its proposed COSS positions that would apply post 2030 (ie. incorporating all currently planned plant fuel conversions and all plant retirements) using if possible the GRA BCF refresh fuel data (or other identified fuel input data and assumptions) with PHP's load being treated as an above the line COSS customer. (For clarity, this run should include all fossil units anticipated to be converted or shut and referable costs transferred to the DDA being fully accounted for.)

Response DR-30:

Please refer to Confidential Attachment 1 and Confidential Attachment 2.

COSS PHP DR-30 Confidential Attachment 1 has been removed due to confidentiality.

COSS PHP DR-30 Confidential Attachment 2 has been removed due to confidentiality.

Request DR-1:

For each generating unit, please provide:

(a) Annual revenue requirements for fixed costs

(b) Annual O&M costs

(c) Nameplate capacity rating (no adjustment, i.e., no discount)

(d) Nameplate capacity rating

(e) Equivalent amount of capacity, i.e. discounted from nameplate

(f) Explanation whether e) was derived from ELCC and the formula for this derivation. If not, what methodology or reference was used.

Response DR-1:

(a-b) NS Power does not track the total annual revenue requirement and annual O&M costs for each generating unit separately. Revenue requirement for a generating unit would consist of depreciation expense, OM&G costs, tax and financing costs of the net book value of the assets.

The generation units depreciation is grouped into plant types as shown in the "Rate Base and Depreciation" tab of the attachment provided in NS Power's response to Synapse IR-26 in NS Power's 2022-2024 General Rate Application (M10431).

These costs with shared O&M costs in the "OM&G" tab of the attachment provided in NS Power's response to Synapse IR-26 in NS Power's 2022-2024 General Rate Application

(M10431) and shared carrying cost and taxes are functionalized and allocated to customer classes using the COSS model provided as SR-01 Att 03 PCON UPDATED in NS Power 2022-2024 General Rate Application (M10431).

(c-f) Please refer to Attachment 1.

NSP Generating Units

Row No.	Unit	Generation Type	C) Nameplate Capacity (no adjustment) [MW]	D) Nameplate Capacity [MW]	E) Equivalent Capacity	ELCC	F) Derivation of Equivalent
1	Tufts Cove 1	Natural Gas and Other Gases	100	78	78	100%	ELCC
2	Tufts Cove 2	Natural Gas and Other Gases	100	93	93	100%	ELCC
3	Tufts Cove 3	Natural Gas and Other Gases	150	147	147	100%	ELCC
4	Pt Aconi	Coal	165	168	168	100%	ELCC
5	Lingan 1	Coal	150	153	153	100%	ELCC
6	Lingan 2	Coal	150	148	148	100%	ELCC
7	Lingan 3	Coal	150	153	153	100%	ELCC
8	Lingan 4	Coal	150	153	153	100%	ELCC
9	Trenton 5	Coal	150	150	150	100%	ELCC
10	Trenton 6	Coal	160	154	154	100%	ELCC
11	Tupper 2	Coal	150	150	150	100%	ELCC
12	Burnside 1	Petroleum	30	33	33	100%	ELCC
13	Burnside 2	Petroleum	30	33	33	100%	ELCC
14	Burnside 3	Petroleum	30	33	33	100%	ELCC
15	Burnside 4	Petroleum	30	33	33	100%	ELCC
16	Victoria Junction 1	Petroleum	30	33	33	100%	ELCC
17	Victoria Junction 2	Petroleum	30	33	33	100%	ELCC
18	Tusket	Petroleum	24	33	33	100%	ELCC
19	Tufts Cove 4	Natural Gas and Other Gases	54	49	49	100%	ELCC
20	Tufts Cove 5	Natural Gas and Other Gases	54	49	49	100%	ELCC
21	Tufts Cove 6	Natural Gas and Other Gases	51	46	46	100%	ELCC
22	Wreck Cove	Conventional Hydro	230	212	201	95%	ELCC
23	Avon	Conventional Hydro	7	7	6	95%	ELCC
24	Black River	Conventional Hydro	23	23	21	95%	ELCC
25	Nictaux	Conventional Hydro	8	8	8	95%	ELCC
26	Lequille	Conventional Hydro	11	11	11	95%	ELCC
27	Paradise	Conventional Hydro	5	5	4	95%	ELCC
28	Mersey	Conventional Hydro	43	43	36	84%	Modified ELCC
29	Sissiboo	Conventional Hydro	24	24	23	95%	ELCC
30	Bear River	Conventional Hydro	13	13	13	95%	ELCC
31	Tusket	Conventional Hydro	2	2	2	95%	ELCC
32	St Margarets	Conventional Hydro	11	11	10	95%	ELCC
33	Sheet Harbour	Conventional Hydro	11	11	10	95%	ELCC
34	Dickie Brook	Conventional Hydro	4	4	4	95%	ELCC
35	Fall River	Conventional Hydro	1	1	0	95%	ELCC
36	Nuttby Mountain	Wind	51	51	9	18%	ELCC
37	Digby Neck	Wind	30	30	5	18%	ELCC
38	Port Hawkesbury Biomass Project	Biomass	60	43	43	100%	ELCC
39	Amherst Solar Garden	Solar	2	2	0	0%	ELCC

NON-CONFIDENTIAL

Request DR-2:

Provide NS Power's most recent costs for lowest capital cost peaking combustion turbines that are natural gas fired as per the most recent IRP:

(a) Capital costs

(b) Cost of money to determine annual revenue requirements

(c) Unit Life and depreciation rate

(d) Annual O&M and Property Tax

(e) Nameplate capacity

(f) Equivalent amount of capacity, i.e. discounted from nameplate

(g) Explanation whether f) was derived from ELCC and the formula for this derivation. If not, what methodology or reference was used.

Response DR-2:

During the 2022 Evergreen IRP, Frame CTs were the lowest cost peaking combustion turbines available as a candidate resource for expansion planning.[1] The values provided are for a Frame CT and match the assumptions used in the IRP.

(a) Capital Cost: $1,278 per KW (expressed in 2022 dollars)

[1] IRP Evergreen - Updated Assumptions (nspower.ca), Slide 18

(b) WACC: 2022 NSUARB approved at 6.33 percent

(c) System Depreciation Lifetime: 35 years

(d)	Fixed O&M:	$18.90 KW/year	(expressed in 2022 dollars)
	Variable O&M:	$6.10 MWh/year	(expressed in 2022 dollars)
	Property Tax:	0%	(NS Power pays Grants-in-Lieu of taxes which is indexed to CPI not asset value)

(e) Capacities vary by supplier and model, but 150 MW was assumed as the standard size for a Frame CT in the IRP.

(f) 94 percent ELCC – 141 MW

(g) ELCC values for new thermal units were provided by E3 in advance of the 2020 IRP.

NON-CONFIDENTIAL

Request DR-3:

Provide transmission costs related to each generator's connection to the network transmission system. Please explain what costs, such as substation and transmission lines on the high voltage side of the transmission, are included, versus the transmission line connecting to the generator.

Response DR-3:

NS Power does not track the net book value associated with each generator's connection to the transmission system. NS Power uses pooled asset methodology, whereby once assets created in an individual project are placed into service, the costs are accumulated in depreciation pools and consequently NS Power is unable to track the individual net book value associated with the specific assets.

Request DR-4:

How are the costs of primary vs secondary distribution classified, to demand or energy?

Response DR-4:

Please refer to page 3 of Exh 5 of 2023 COSS[1] for the distribution cost classification results.

NS Power does not classify its distribution costs to energy. They are classified either exclusively to demand or exclusively to customer or to both demand and customer. Please refer to CA DR-41 concerned with discussion of the rationale behind the proposed Minimum System Method for classification of distribution costs.

NS Power does not track its distribution costs by primary vs secondary voltage levels. Rather, the total distribution costs in each cost category are classified to demand and customer, where appropriate, using cost classification factors derived from the classification of combined investments in primary and secondary voltage of distribution poles and wires.

The OM&G costs of Overhead (row 3) and Underground (row 4) lines and Regulatory Affairs Advocacy (row 8) are classified 26 percent to demand and 74 percent to customer based on classification of pole investment between demand and customer as provided in tab "Exh 3c". All the other OM&G expenses in rows 2 through 8 are classified either 100 percent to demand or 100 percent to customer.

The non-streetlight, capital-related costs in rows 9 through 25 are classified to demand and customer based on classification of investment into these cost categories. The classification factors are calculated as relative shares of distribution plant investment classified to demand and customer on page 2 of tab "Exh 2a". The plant of Poles and Fixtures, Overhead Lines, and Underground

[1] M10431, Exhibit N-27, NS Power, 2022 General Rate Application (GRA), February 18, 2022, SR-01, Att 3.

Lines, are classified to demand and customer as determined in Exh 3c, Exh 3e, and Exh 3g. Please refer to section "3. Distribution system sub-functionalization and classification" of the evidence filed by Concentric in the 2023-2024 GRA included in Attachment 1 for details behind sub-functionalization of poles and wires into primary and secondary voltage and classification of these investments into demand and customer.

The plant categories of Land, Easements & Survey, and Other are classified to demand and customer based on the relative shares of demand and customer services of the combined investment in substations, and poles and wires.

All streetlights are classified to demand.

CONCENTRIC ENERGY ADVISORS

M E M O R A N D U M

TO: Nova Scotia Power, Inc.

FROM: Bickey Rimal, Concentric Energy Advisors

DATE: January 2022

RE: **GRA Allocated Cost of Service and Miscellaneous Charges Matters**

The purpose of this memorandum is to provide the results of:

- Concentric's review of Nova Scotia Power's (NS Power or Company) allocated class cost of service ("CCOS") model;
- Concentric's review of certain deferred matters from NS Power's 2013 Cost of Service Study (COSS) Proceeding;
- Concentric's Distribution System Sub-functionalization and Classification Study;
- Concentric's review of NS Power's proposed rate smoothing plan;
- Concentric's review of the Pole Attachment Fee; and
- Concentric's review of charges associated with Regulation 7.

1. <u>CCOS Model is reasonable, follows the industry-accepted methodology and produces accurate results</u>

Concentric has reviewed the Company's CCOS model. Based on our review, the CCOS model is reasonable, appropriate, follows the industry-accepted methodology and produces accurate results. The model follows the standard industry practice of three-step analysis to assign the total revenue requirement to each customer class based on their cost responsibility. The three steps, which form the basis of a CCOS study are: (1) cost functionalization; (2) cost classification; and (3) cost allocation.

The first step, cost functionalization, identifies and separates plant and expenses into specific categories based on the various characteristics of utility operation. NS Power's CCOS model has four functions: Production, Transmission, Distribution, and Retail.

The second step, cost classification, further separates the functionalized plant and expenses according to the primary factors that determine the amount of costs incurred. These factors are: (1) the number of customers; (2) the need to meet the peak demand requirements that customers place on the system; and (3) the amount of electricity consumed by customers. NS Power's CCOS model identifies these classification categories as customer costs, demand costs and energy costs, respectively.



The final step, cost allocation, is the allocation of each functionalized and classified cost element to the individual customer or rate class that causes the cost to be incurred or benefits from the cost.

Based on Concentric's review, the CCOS model is structurally robust and produces accurate results. The calculations contained within the model are transparent and relatively easy to follow. The external data that feed the model are consolidated in two distinct sheets. The model accomplishes functionalization, classification, and allocation of rate base followed by the same three step analysis for expenses. The model provides enough detail to analyze rate base and expenses by functional and classification factors. The model also has calculations showing the detailed build-up of fixed and variable costs on a total as well as on a per-unit basis.

2. Review of certain deferred matters from 2013 COSS Proceeding

When NS Power updated its COSS as a part of the compliance filing after the NSUARB issued its decision on the 2013 COSS Proceeding, several items were slated for further review, study and stakeholder consultation, as listed in Undertaking-6 from the hearing.[1] Concentric was asked to review the implementation of certain items listed in Undertaking-6.

Classification of Lingan Units 1 and 2

The 2013 COSS Proceeding Decision provided that utilization for Lingan 1 and 2 be considered as part of the IRP process, and that may inform future cost of service decisions.[2] The Company is continuing to treat Lingan 1 and Lingan 2, as base load units in the CCOS study. This is reasonable and appropriate because even though these units have operated at a lower capacity factor in recent years, they still cannot operate as a truly peaking unit because of their inability to cycle as swiftly as a peaker, limiting their ability to perform the same functions of a peaking unit. Further, NS Power's most recent system outlook demonstrates that these units are not anticipated to have capacity factors in the range typically associated with peaking units.[3] A compelling change is necessary to justify changing the treatment of these units in the CCOS and since these units were designed as baseload units, it is appropriate to continue to treat them as such.

Treatment of miscellaneous revenues

In the 2013 COSS Proceeding, NS Power agreed to review the origin of miscellaneous revenues by class and/or function and develop new allocators.[4] In a report filed with the NSUARB and 2013 COSS Proceeding participants on February 9, 2015, NS Power described its treatment of miscellaneous revenues, taking into account the input of stakeholders.[5] The allocation of miscellaneous revenues seems reasonable and appropriate.

[1] M05473, NS Power COSS, Exhibit N-51, Undertaking-6, December 23, 2013.
[2] M05473, NS Power COSS, Decision 2014 NSUARB 53, para. 103.
[3] M10178, NS Power 10 Year System Outlook, June 30, 2021, Figure 9 shows the forecast capacity factors for these units.
[4] M05473, M05473, NS Power COSS, Decision 2014 NSUARB 53, page 45.
[5] M06555, Exhibit N-2, February 9, 2015.



Functionalization of overhead costs

In the 2013 COSS Proceeding, NS Power agreed to review the origin of overhead costs by class and/or function and develop new allocators.[6] In a report filed with the NSUARB and 2013 COSS Proceeding participants on February 9, 2015, NS Power described its treatment of overhead costs, taking into account the input of stakeholders.[7] Based on Concentric's review, the approach taken by the Company is reasonable and appropriate.

The Company's proposed functionalization factors follow cost causation as described in the document which reflects the feedback from senior managers of each corporate group regarding how the resources of each group are utilized.[8] The Company has attempted to directly assign cost to customer classes where appropriate and where such information is readily available. For overhead costs that cannot be directly assigned, the functionalization factors proposed by the Company are broad (for example, revenue requirement, labor portion of O&M, etc.), and are based on cost causation considerations. It is important to note that consensus was reached with all but one party in almost all of the overhead cost functionalization factors. [9]

3. Distribution system sub-functionalization and classification

During the 2013 COSS Proceeding, in its Reply Evidence, the Company recommended that a study to examine poles and conductors inventories be undertaken, and this was committed to in the Company's response to Undertaking-6. In addition, in the Hearing, NS Power agreed to conduct a review of poles and conductors, leading to recommendations regarding sub-functionalization of poles and conductors between primary and secondary.[10]

It is necessary to split the distribution facilities into primary and secondary. This exercise of splitting a particular distribution account between those serving primary voltage and those serving secondary voltage can be categorized as "sub-functionalization". Since the costs associated with distribution facilities are not specifically identified in the financial accounting records as being primary distribution or secondary distribution, special analyses are needed to sub-functionalize distribution facilities between primary and secondary voltage.

Concentric used data collected by the Company to conduct the sub-functionalization study for distribution poles and conductors. The Company recently conducted a survey of selected representative feeder sections to gather information regarding poles, conductors, and other relevant materials contained within each of those feeders by voltage level (i.e., primary and secondary). The Company also provided replacement cost information for each item contained in a particular feeder section by voltage level.

[6] M05473, NS Power COSS, Decision 2014 NSUARB 53, page 45.
[7] M06555, Exhibit N-2, February 9, 2015.
[8] M06555, Exhibit N-2, February 9, 2015, Appendix I, p. 31 of 54.
[9] M06555, Exhibit N-2, February 9, 2015, Appendix II – Summary of Stakeholder Positions.
[10] M05473, M05473, NS Power COSS, Decision 2014 NSUARB 53, page 45.



Concentric first calculated the replacement costs of all poles at each feeder section by voltage level. Some feeder sections have poles that are categorized as combination poles (i.e., these poles have conductors and other facilities that are serving both primary and secondary voltages). The combination poles are allocated between secondary and primary voltage based on the ratio of unit cost of secondary and primary poles in that particular feeder section. The resulting cost of primary and secondary poles at each feeder section was summed up to calculate the total replacement cost of all primary and secondary poles contained in all the feeder sections sampled. The ratio of these costs was used to sub-functionalize poles between primary and secondary.

Concentric followed the same general approach implemented for poles, to sub-functionalize the conductors. Sub-functionalization analyses were conducted separately for overhead conductors and underground conductors. The information provided by the Company contained the length and cost of each conductor by size and material and by voltage level for each feeder section. Using this information, Concentric calculated the total replacement cost of all overhead conductors in each feeder section by voltage level by multiplying the length of conductors by replacement cost for each conductor type. The resulting cost of primary and secondary overhead conductors at each feeder section was summed up to calculate the total replacement cost of all primary and secondary overhead conductors contained in all the feeder sections sampled. The ratio of these costs was used to sub-functionalize overhead conductors between primary and secondary. The same methodology was replicated to sub-functionalize underground conductors.

Concentric then conducted additional analyses to classify the sub-functionalized poles and conductors between demand and energy. The costs associated with a distribution system are related to both the peak amount of load that the system is designed to deliver and the number of customers it is designed to serve. Consequently, it is appropriate to allocate a portion of the distribution system costs on a demand-related basis and a portion on a customer-related basis. In order to classify certain of the distribution system costs as demand-related or customer-related, Concentric conducted a minimum system study for poles and for conductors. The minimum system method is routinely used in the industry to classify a portion of distribution system as being demand- and customer-related. The Electric Utility Cost Allocation Manual published by NARUC details the approach taken to conduct a minimum system study. [11] The minimum system analysis compares the cost of a hypothetical minimum system (i.e., a system sized to simply connect customers) to the total cost of the system. The minimum system cost represents the customer-related costs; whereas the total costs less the minimum system costs represents the demand-related costs.

The total count of primary poles was multiplied by the minimum sized primary pole to calculate the minimum system cost of primary poles. The ratio of this minimum system to total primary poles cost is the customer component. Similar analysis was conducted for secondary poles to calculate the customer component of the secondary poles. Similarly, the circuit length of primary overhead conductors was multiplied by the minimum sized primary overhead conductor to calculate the minimum system cost of primary overhead conductor. The ratio of this minimum system to total primary overhead conductor cost is the customer component. The customer component of overhead

[11] NARUC, Electric Utility Cost Allocation Manual at 90-92 (1992).

secondary, underground primary, and underground secondary was similarly calculated using the circuit length and replacement costs of each sub-functionalized conductor type. The approach implemented here is consistent with the guidance provided by the NARUC Manual.

The table below presents the results of the sub-functionalization and classification analyses of distribution poles and conductors.[12]

	Poles	Overhead Conductors	Underground Conductors
Primary - Demand	15%	49%	6%
Primary - Customer	49%	30%	1%
Secondary - Demand	11%	3%	17%
Secondary - Customer	25%	17%	76%

4. Rate Smoothing

The Company is seeking to implement a 2022-2024 rate stability plan, where both the fuel and non-fuel rate increases are smoothed over the test period. The rate smoothing process determines the rates for each period such that the year-over-year class increase is uniform. This is accomplished by initially analyzing the un-smoothed rates that are directly based on the results of the CCOS model, followed by the levelization of rates such that the year-over-year increase is equal This smoothing of rates leads to a gradual and predictable increase in rates over the three-year period for the customers. The smoothing provides rate stability and predictability for customers.

The Nova Scotia Utility and Review Board has authorized NS Power to operate under similar rate stability plans in prior years. For example, the Company operated under a rate stability plan from 2017 to 2019. Rate smoothing is fairly common in the utility industry and is used as a mechanism to reduce the variability in changes in revenue requirement and/or rates from one year to the next in the context of multi-year rate plans. Concentric has reviewed the methodology and calculations used by NS Power in smoothing the proposed rates and confirms it agrees with both the approach and results.

5. Pole Attachment Fee

Concentric has reviewed the development of the pole attachment fee being proposed in this GRA and finds the proposed fee to be appropriate and reasonable. The calculated fee is based on the cost of providing the necessary services. As a result, the proposed fee minimizes cross subsidization between customers served by NS Power and customers served by the third-party attachers. In addition, the approach implemented by the Company is consistent with the methodology approved by the Board previously in 2002 ("2002 Decision").[13]

[12] Percentages may not total 100 due to rounding.
[13] NS Power Application for Increase in its Pole Attachment Charge, NSUARB-P-873, September 7, 2000.



The underlying data used to calculate the fee are cost based and the costs generally tie back directly to the CCOS studies conducted as a part of this GRA. Concentric has reviewed the build-up of the different components of the fee and our assessment of each component is briefly discussed here. The calculation of the pole attachment fee is primarily driven by two considerations: 1) total cost of a pole, and 2) method to allocate such costs to individual attaching entities.

NS Power categorizes the total cost of poles attributable to third-party attachments as indirect and direct costs. The indirect costs are composed of common costs that need to be shared by the Company and the third-party attachments. These costs include depreciation, maintenance, and carrying cost associated with capital investments in poles. The indirect costs need to be allocated between the Company and the different attaching entities. The direct costs, on the other hand, are directly attributable to the third-party attachments and includes administration and loss in productivity costs.

The first component of indirect costs is the carrying cost, which is the return associated with the pole investment. It is calculated as the product of the pre-tax return and net pole investments based on the CCOS. The carrying cost also includes property tax associated with the pole investment. The second component is the depreciation expense, and it is the total depreciation expense associated with poles based on the CCOS. The third component of indirect cost is composed of vegetation management and other maintenance costs associated with the poles. Only 75% of the total carrying costs and depreciation expense is considered as being shared between the Company and third-parties to account for the fact that certain equipment like cross arms and insulators are only utilized by the Company.

Once the annual shareable indirect costs are determined, they are allocated to third-party attachments using the proportionate allocation methodology. The proportionate methodology allocates costs based on the share of the usable space occupied by the various attachments. The allocation percentage associated with non-power attachments is 31.3% (non-power usable space of 5.25 feet divided by total usable space of 16.75 feet).[14]

As previously noted, the direct costs are directly attributable to the third-party attachments and includes administration and loss in productivity costs. The administration cost includes the cost of administration personnel and field inspection of pole attachments over a 2-year cycle. Loss in productivity costs are NS Power's costs to provide service based on trouble or repair calls for communication facility issues and additional time needed to perform work due to the existence of third-party attachments. The calculated loss in productivity costs is based on the cost of responding to call-outs for communications facility issues for the poles under the joint use agreement between NS Power and Bell.

The Company is proposing a pole attachment fee based on the average of the costs of providing service to third party pole attachments over the period 2022-2024. Based on Concentric's review, the fee is cost-based and minimizes cross subsidization between customers served by NS Power and customers served by the third-party attachers. As a result, Concentric concludes the fee is reasonable and appropriate.

[14] The 31.3% allocation factor is further adjusted to 23.93% to account for the fact that on average there are about 1.31 non-power attachments per pole.



6. Charges associated with Regulation 7

NS Power is proposing to update charges associated with Regulation 7 of the Board-approved Regulations. These charges were last updated as part of the 2013/2014 GRA. Concentric reviewed the proposed charges and they are appropriate and reasonable. Each charge has a cost basis and is based on the cost incurred by the Company to provide those services.

Request DR-5:

Verify the amount of assets and annual revenue requirement associated with Maritime Link related NS Power transmission, distinguishing NS Power owned transmission.

Response DR-5:

NSPML is a separate legal entity from NS Power that was formed solely for the purpose of constructing, operating and maintaining the Maritime Link. NSPML's transmission asset costs are recovered under the ML agreement subject to the FAM. These costs do not represent transmission costs incurred by NS Power.

NS Power does not track its transmission-related revenue requirement associated with investments in transmission assets designed to facilitate import of Maritime Link energy.

NS Power continues to exclude the Maritime Link assets associated with the transmission upgrades from its rate base until the criteria set out by the Board in the 2023-2024 GRA Decision have been met.[1] The non-regulated net book value of the Maritime Link transmission assets was $37.5 million at December 31, 2023. The Company recognized $1.3 million in non-regulated depreciation expense and $1.1 million of non-regulated financing costs associated with these assets in 2023.

[1]M10431, NSUARB Decision, 2022 General Rate Application (GRA), 2023 NSUARB 12, Feb 2, 2023, page 156, paragraph 405.

NON-CONFIDENTIAL

Request DR-6:

Provide an electronic searchable copy of NS Power's most recent approved Chart of Accounts.

Response DR-6:

Please refer to Attachment 1 which was accepted as part of M11090 – Nova Scotia Power Inc. - Annual and Regulated Financial Statements – 2022 in the NSUARB's letter dated September 26, 2023.

Chart of Accounts for Nova Scotia Power Inc. (Consolidated)
As of December 31, 2022

INTRODUCTION

The Oracle account number consists of a twenty-nine digit **"Accounting Flexfield"**. The flexfield is made up of eight segments as shown below.

CO	Account	Line of Bus	Location	CC	Inter-Company	Future Use	Future Use
XXX	XXXXXX	XXX	XXXX	XXX	XXX	XXXX	XXX

A complete listing of all Segments is provided in **Appendix A**.

The first segment is titled **Company** and is a three digit number identifying Nova Scotia Power as company 001 and Nova Scotia Power Energy Marketing Inc. as company 100.

The second segment is titled **Account Number** and is a six digit number which indicates the type of item involved. Expense types include accounts with values between 500000 and 699999.

The third segment is titled **Line of Business** and is a three digit number used to record a set of highly related functions that serve a set of transactions or business need.

The fourth segment is titled **Location** and is a four digit number used to record the related physical or geographic location.

The fifth segment is titled **Cost Centre** and is a three digit number used to differentiate function groups.

The sixth segment is titled **Inter-Company** and is a three digit number indicating the corresponding legal entity. This segment will contain zeros if the transaction is not between legal entities.

The final two segments are titled **Future Use** and these segments currently default to zero because they are not being used. These segments have been added to allow for expansion of the Chart of Accounts, as required.

APPENDIX A

Chart of Accounts - All Segments and Their Descriptors in the COA Structure

ACCOUNT SEGMENT

Account Segment Value	Account Segment Description
111050	PETTY CASH FUNDS
111600	CASH SCOTIABANK
111650	CASH ROYAL BANK IMPREST ACCOUNT
111700	CASH BNS US FUNDS
111800	CASH CIBC
111850	CASH ROYAL BANK
111900	CASH CIBC US BANK
115250	AR TRADE
115300	AR MISC PAYMENTS CLEARING
115350	AR ACCRUED INTEREST
115400	AR ST WATER HEATER LOANS
115450	AR MARKETING SALES
115500	AR MARKETING SALES ETS UNITS
115650	AR UNBILLED REV LARGE CUSTOMER
115700	AR UNBILLED REV OTHER ELECTRIC
115750	AR UNBILLED REVENUE
115800	AR POSTED MARGIN
115850	AR CSM DSM
115900	AR CSM DSM EFFICIENCY NS
115950	AR CSM DSM ENSL FINANCING
116050	AR COMMODITY DERIVATIVE
116150	AR ARM CLEARING
116900	ALLOWANCE FOR DOUBTFUL ACCOUNTS
117050	AR PST REBATE
117100	AR EMPLOYEE ADVANCES OTHER
117150	AR ARBITRATION CONTRACT
117200	AR PUITTA TAX REBATE
117250	AR RETURNS TO SUPPLIERS
117300	AR HST
117350	AR OTHER NON TRADE
117600	AR FEDERAL EXCISE TAX RECIEVABLE
118150	INTERCOMPANY AR TRADE
119100	INCOME TAX RECEIVABLE
121050	INVENTORY MATERIALS
121060	INVENTORY MATERIALS ADJ
121300	INVENTORY OBSOLESENCE

121700	INVENTORY ASH
122050	INVENTORY COAL
122100	INVENTORY COAL FX
122150	INVENTORY BIOMASS
122200	INVENTORY BUNKER
122250	INVENTORY BUNKER C FX
122350	INVENTORY PROPANE
122400	INVENTORY DIESEL
122450	INVENTORY LIGHT OIL
122500	INVENTORY ADDITIVES
122550	INVENTORY MERCURY SORBENT
122600	INVENTORY MERCURY SORBENT FX
122650	INVENTORY FUEL
124050	INVENTORY EMISSION COMPLIANCE
128050	ST DERIV ASSET HFT
128400	ST DERIV ASSET HFT TREASURY
130050	ST REG ASSETS OTHER
130060	ST REG ASSET HYDRO GENERATION FACILITIES
130100	ST REG ASSET UNAMORT DEFEAS ISSUE COSTS
130200	ST REG ASSET DEF OF DSM
130250	ST REG ASSET DEFERRAL OF FAM
130300	ST REG ASSET DERIV INSTRUMENTS
130310	ST REG ASSET DERIV INSTR TREASURY
130600	ST REG ASSET DERIV INSTRUMENT FX
140100	DUE FROM RELATED PARTY
141050	PREPAID GRANTS
141100	PREPAID INSURANCE
141150	PREPAID OTHER
141350	PREPAID TRAVEL
141400	PREPAID OCCUPANCY TAXES
142100	ST OTHER NON REGULATORY ASSETS
162600	PPE REGULATED
162610	PPE REGULATED ADJ
162650	CONTRIBUTED CAPITAL REGULATED
163600	ACCUM DEP PPE REGULATED
163610	ACCUM DEP PPE REGULATED ADJ
163700	ACCUM DEP CONTRIBUTED CAPITAL REG
163800	CWIP REGULATED
163810	CWIP REGULATED ADJ
163850	CWIP CLEARING
163900	RWIP REGULATED
163910	RWIP REGULATED ADJ
170100	LT INCOME TAX RECEIVABLE

171050	LT DIT ASSET LIABILITY FAM
172050	LT DERIV ASSET HFT
172350	LT DERIV ASSET HFT TREASURY
173050	DEFERRED PENSION RETIREE BENEFIT
180050	LT REG ASSET UNAMORT DEFEASANCE COSTS
180450	LT REG ASSET RENEWABLE TO RETAIL
180500	LT REG ASSET DIT REGULATORY
180600	LT REG ASSET DEFERRAL OF DSM
180700	LT REG ASSET DEFERRAL OF FAM
180750	LT REG ASSET OTHER
180760	LT REG ASSET HYDRO GENERATION FACILITIES
180800	LT REG ASSET DERIV INSTRUMENTS
180810	LT REG ASSET DERIV INSTR TREASURY
180850	LT REG ASSET FCR DEFERRAL
181550	LT REG ASSET UARB TAX DEFERRAL
191150	LT WATER HEATER LOANS RECEIVABLE
191200	LT RECEIVABLE MARKETING SALES
191350	LT OTHER NON REG ASSETS
191600	LT INTERCOMPANY INVESTMENTS
191850	LT RIGHT OF USE ASSETS - OPERATING LEASE
194050	LT UNAMORTIZED DISCOUNTS
194150	LT DEFERRED HEDGING PREMIUMS FX
194200	LT OTHER ISSUE COSTS
194250	LT DEFERRED INV PREMIUM
197050	INTANGIBLES
197100	INTANGIBLES ACCUM AMORTIZATION
197150	INTANGIBLES CWIP REGULATED
210150	BANK INDEBTEDNESS
210350	DEBT DUE WITHIN ONE YEAR
211150	AP TRADE
211160	AP TRADE ADJ
211300	AP PROCUREMENT CARDS
211350	AP AUTOMATED ACCRUAL
211360	AP AUTOMATED ACCRUAL ADJ
211400	AP ACCRUED COMMODITY DERIVATIVE
211410	AP ACCRUED CONVERSION GOODS RECEIPT
211450	AP ACCRUED FUEL
211500	AP ACCRUED FUEL FX
211550	AP ACCRUED LIABILITIES
211850	AP INVENTORY ACCRUAL
211950	AP POSTED MARGIN
212050	AP HOLDBACKS
212100	AP HEALTH DENTAL

212150	AP LIFE ADD
212250	AP DC PENSION
212300	AP DB PENSION
212350	AP CHARITY DONATIONS EMPLOYEES
212355	AP CHARITY DONATIONS EMPLOYEES IWK
212400	AP SOCIAL CLUB DUES
212500	AP UNION DUES LIVING AWAY ALLOW
212550	AP UNION DUES TECHNICAL TRAINING
212600	AP UNION DUES TRAINING COSTS
212650	AP UNION DUES RELOCATION ALLOW
212700	AP LONG TERM DISABILITY
212750	AP GOOD NEIGHBOUR ENERGY FUND
212800	AP CIS REFUND CLEARING
212850	AP CONSUMER DEPOSITS
212900	AP ACCRUE INT ON CONSUMER DEPOSIT
212950	AP WATER RENTALS PAYABLE
213150	AP RRSP
213900	AP PURCHASE PRICE VARIANCE
214100	AP PAYROLL FEDERAL INCOME TAX
214750	AP OTHER
217050	INTERCOMPANY AP TRADE
221050	INCOME TAX PAYABLE
221150	WITHHOLDING TAX PAYABLE
222050	ST ACCRUED PENSION AND NON PENSION BENEFIT LIABILITY – NSP
223100	ST DERIV LIAB HFT
223300	ST DERIV LIAB HFT TREASURY
230100	ST REG LIAB DEFERRAL OF FAM
230150	ST REG LIAB DERIV INSTRUMENTS
230250	ST REG LIAB ACCUM RESERVE COST OF REMOVAL
230350	ST REG LIAB DERIV INSTRUMENT FX
230400	ST REG LIAB DERIV INSTR TREASURY
241050	ACCRUED INTEREST PAYABLE CDN
241200	ACCRUED INTEREST LT DEBT
242050	ACCRUED LIABILITIES
242100	ACCRUED LIABILITIES NON TRADE
242110	ACCRUED LIABILITIES TREASURY
242150	ACCRUED ST RSU DSU
242350	ACCRUED PAYROLL
242400	ACCRUED PAYROLL CLEARING
242450	ACCRUED INCENTIVE
242500	ACCRUED VACATION
242550	ACCRUED LABOUR OPERATIONS

242600	ACCRUED CPP EMPLOYEE
242650	ACCRUED WCB
242700	ACCRUED PARKING
242750	ACCRUED EI EMPLOYEE
242800	ACCRUED INCOME TAX PAYROLL
242850	ACCRUED PENSION DEFINED BENEFIT
242900	ACCRUED TFSA CONTRIBUTIONS
242950	ACCRUED RRSP CONTRIBUTIONS EES
243100	ACCRUED CREDIT UNION DEDUCTIONS EES
243150	ACCRUED UNION DUES EMPLOYEES
243200	ACCRUED COMMON SHARE PURCHASE PLAN EES
243250	ACCRUED DIRECTORS SHARE PURCHASE PROG
243350	ACCRUED OTHER PAYROLL DEDUCTIONS
243400	ACCRUED OVERTIME BANKED
243450	ACCRUED PENSION PLAN NSPI
243500	ACCRUED UNIDENTIFIED CASH
243750	ACCRUED IWK LOTTO
243800	ACCRUED OTHER LIABILITIES
243850	ACCRUED ST DSM LIABILITY
247400	ST UNEARNED REVENUE LIAB
247500	ST REGULATORY EMISSION COMPLIANCE
247560	CARBON TAX PAYABLE
247600	GST HST PAYABLE
247760	ST LEASE LIABILITY - OPERATING LEASE
261050	UNAMORTIZED ISSUE COSTS
261100	CAPITAL LEASE OBLIGATION
261150	NSPI DEBENTURES
261250	LONG TERM DEBT
262050	LT DEF INCOME TAX LIABILITY
262100	LT DEF INC TAX LIABILITY FAM
263050	LT DERIV LIABILITY HFT
263250	LT DERIV LIABILITY HFT TREASURY
270100	LT REG LIAB RATE STABILIZATION DEF
270150	LT REG LIAB STREETLIGHTS
270200	LT REG LIAB MTM
270300	LT REG LIAB DEFERRAL OF FAM
270350	LT REG LIAB DERIVATIVE LIABILITY
270360	LT REG LIAB DERIVATIVE TREASURY
270400	LT REG LIAB DERIV LIABILITY FX
270600	LT REG LIAB ACCUM RESERVE COST OF REMOVAL
280050	SITE RESTORATION RESERVE
280100	SITE RESTORATION RESERVE ACCRETION
280200	ASSET RETIREMENT OBLIGATION

281050	LT ACCRUED PENSION LIAB NSPI
283270	LT REGULATORY EMISSION COMPLIANCE
283300	LT UNEARNED REVENUE LIAB
283450	LONG TERM ACCRUED INTEREST
283500	LT DSU RSU
283900	LT LIABILITIES OTHER
283950	LT DSM LIABILITY
283960	LT LEASE LIABILITY - OPERATING LEASE
331100	COMMON SHARES INTERCOMPANY
334050	AOCI PENSION
337250	COMMON DIVIDENDS INTERCOMPANY
338050	OPENING RE
338150	OPENING RE CURRENT YEAR ADJ
412110	REG RES TIME OF USE NON FUEL DEMAND BASE
412120	REG RES TIME OF USE NON FUEL ENERGY ALLHOURS
412130	REG RES TIME OF USE FAM BASE FUEL
412160	REG RES TIME OF USE NON FUEL ENERGY PEAK
412170	REG RES TIME OF USE NON FUEL ENERGY OFF PEAK
412310	REG RES CPP NON FUEL DEMAND BASE
412320	REG RES CPP FAM BASE FUEL
412330	REG RES CPP FAM AA FUEL COST
412350	REG RES CPP NON FUEL ENERGY PEAK
412360	REG RES CPP NON FUEL ENERGY OFF PEAK
412510	REG SMALL GEN TIME OF USE NON FUEL DEMAND BASE
412520	REG SMALL GEN TIME OF USE NON FUEL ENERGY ALLHOURS
412530	REG SMALL GEN TIME OF USE FAM BASE FUEL
412560	REG SMALL GEN TIME OF USE NON FUEL ENERGY PEAK
412570	REG SMALL GEN TIME OF USE NON FUEL ENERGY OFF PEAK
412710	REG SMALL GEN CPP NON FUEL DEMAND BASE
412720	REG SMALL GEN CPP FAM BASE FUEL
412730	REG SMALL GEN CPP FAM AA FUEL COST
412750	REG SMALL GEN CPP NON FUEL ENERGY PEAK
412760	REG SMALL GEN CPP NON FUEL ENERGY OFF PEAK
413110	REG RES NON FUEL DEMAND BASE
413120	REG RES NON FUEL ENERGY
413130	REG RES FAM BASE FUEL
413140	REG RES FAM AA FUEL COST
413150	REG RES FAM BA FUEL COST
413160	REG RES DSM COST RECOVERY RIDER
413170	REG RES IN PROVINCE
413210	REG RES ACCRUED NON FUEL DEMAND BASE
413230	REG RES ACCRUED FAM BASE FUEL
413240	REG RES ACCRUED FAM AA FUEL COST

413250	REG RES ACCRUED FAM BA FUEL COST
413310	REG METERED OUTDOOR REC LIGHTS NON FUEL ENERGY
413330	REG METERED OUTDOOR REC LIGHTS FAM AA FUEL COST
413350	REG METERED OUTDOOR REC LIGHTS DSM COST RECOVERY RIDER
413410	REG TIME OF USE NON FUEL DEMAND BASE
413420	REG TIME OF USE NON FUEL ENERGY
413430	REG TIME OF USE FAM BASE FUEL
413440	REG TIME OF USE FAM AA FUEL COST
413450	REG TIME OF USE FAM BA FUEL COST
413460	REG TIME OF USE NON FUEL ENERGY PEAK
413470	REG TIME OF USE NON FUEL ENERGY OFF PEAK
413480	REG RES TIME OF DAY DSM COST RECOVERY RIDER
413490	REG TIME OF USE REVENUE
413510	REG TIME OF USE ACCRUED NON FUEL DEMAND BASE
413530	REG TIME OF USE ACCRUED FAM BASE FUEL
413540	REG TIME OF USE ACCRUED FAM AA FUEL COST
413550	REG TIME OF USE ACCRUED FAM BA FUEL COST
414110	REG SMALL GEN NON FUEL DEMAND BASE
414120	REG SMALL GEN NON FUEL ENERGY
414130	REG SMALL GEN FAM BASE FUEL
414140	REG SMALL GEN FAM AA FUEL COST
414150	REG SMALL GEN FAM BA FUEL COST
414160	REG SMALL GEN DSM COST RECOVERY RIDER
414180	REG SMALL GEN REVENUE
414210	REG SMALL GEN ACCRUED NON FUEL DEMAND BASE
414230	REG SMALL GEN ACCRUED FAM BASE FUEL
414240	REG SMALL GEN ACCRUED FAM AA FUEL COST
414250	REG SMALL GEN ACCRUED FAM BA FUEL COST
414310	REG GEN NON FUEL DEMAND BASE
414320	REG GEN NON FUEL ENERGY
414330	REG GEN FAM BASE FUEL
414340	REG GEN FAM AA FUEL COST
414350	REG GEN FAM BA FUEL COST
414360	REG GEN DSM COST RECOVERY RIDER
414380	REG GEN REVENUE
414410	REG GEN ACCRUED NON FUEL DEMAND BASE
414430	REG GEN ACCRUED FAM BASE FUEL
414440	REG GEN ACCRUED FAM AA FUEL COST
414450	REG GEN ACCRUED FAM BA FUEL COST
414510	REG LARGE GENERAL NON FUEL DEMAND BASE
414520	REG LARGE GENERAL NON FUEL ENERGY
414530	REG LARGE GENERAL FAM BASE FUEL

414540	REG LARGE GENERAL FAM AA FUEL COST
414550	REG LARGE GENERAL FAM BA FUEL COST
414610	REG GENERAL TIME OF USE NON FUEL DEMAND BASE
414620	REG GENERAL TIME OF USE NON FUEL ENERGY ALLHOURS
414630	REG GENERAL TIME OF USE FAM BASE FUEL
414660	REG GENERAL TIME OF USE NON FUEL ENERGY PEAK
414670	REG GENERAL TIME OF USE NON FUEL ENERGY OFF PEAK
414810	REG GENERAL CPP NON FUEL DEMAND BASE
414820	REG GENERAL CPP FAM BASE FUEL
414830	REG GENERAL CPP FAM AA FUEL COST
414850	REG GENERAL CPP NON FUEL ENERGY PEAK
414860	REG GENERAL CPP NON FUEL ENERGY OFF PEAK
415110	REG SMALL IND NON FUEL DEMAND BASE
415120	REG SMALL IND NON FUEL ENERGY
415130	REG SMALL IND FAM BASE FUEL
415140	REG SMALL IND FAM AA FUEL COST
415150	REG SMALL IND FAM BA FUEL COST
415160	REG SMALL IND DSM COST RECOVERY RIDER
415180	REG SMALL IND REVENUE
415210	REG SMALL IND ACCRUED NON FUEL DEMAND BASE
415230	REG SMALL IND ACCRUED FAM BASE FUEL
415240	REG SMALL IND ACCRUED FAM AA FUEL COST
415250	REG SMALL IND ACCRUED FAM BA FUEL COST
415310	REG MEDIUM IND NON FUEL DEMAND BASE
415320	REG MEDIUM IND NON FUEL ENERGY
415330	REG MEDIUM IND FAM BASE FUEL
415340	REG MEDIUM IND FAM AA FUEL COST
415350	REG MEDIUM IND FAM BA FUEL COST
415360	REG MEDIUM IND REVENUE
415410	REG MEDIUM IND ACCRUED NON FUEL DEMAND BASE
415430	REG MEDIUM IND ACCRUED FAM BASE FUEL
415440	REG MEDIUM IND ACCRUED FAM AA FUEL COST
415450	REG MEDIUM IND ACCRUED FAM BA FUEL COST
415510	REG LARGE IND NON FUEL DEMAND BASE
415520	REG LARGE IND NON FUEL ENERGY
415530	REG LARGE IND FAM BASE FUEL
415540	REG LARGE IND FAM AA FUEL COST
415550	REG LARGE IND FAM BA FUEL COST
415610	REG LARGE IND INTERRUPT RIDER NON FUEL DEMAND BASE
415620	REG LARGE IND INTERRUPT RIDER NON FUEL ENERGY
415630	REG LARGE IND INTERRUPT RIDER FAM BASE FUEL
415640	REG LARGE IND INTERRUPT RIDER FAM AA FUEL COST
415650	REG LARGE IND INTERRUPT RIDER FAM BA FUEL COST

415660	REG LARGE IND INTERRUPT RIDER REVENUE
415710	REG LARGE IND WHSLE MARKET BACKUPTOP UP NON FUEL DEMAND BASE
415720	REG LARGE IND WHSLE MARKET BACKUPTOP UP FAM BASE FUEL
415730	REG LARGE IND WHSLE MARKET BACKUPTOP UP
415760	REG LARGE IND WHSLE MARKET SUPPLIER SPILL NON FUEL DEMAND BASE
415780	REG LARGE IND WHSLE MARKET SUPPLIER SPILL REV
415810	REG LOAD RETENTION NON FUEL ENERGY
415820	REG LOAD RETENTION FAM BASE FUEL
415830	REG LOAD RETENTION
415860	REG SHORE POWER NON FUEL ENERGY
415870	REG SHORE POWER FAM BASE FUEL
415880	REG SHORE POWER DISTRIBUTION
415900	REG GRLF REPLACEMENT LOAD FOLLOWING REVENUE
415910	REG MERSEY
415920	REG TIME OF USE REAL TIME PRICE
416110	REG UNMETERED NON FUEL ENERGY
416120	REG UNMETERED FAM BASE FUEL
416130	REG UNMETERED FAM AA FUEL COST
416140	REG UNMETERED FAM BA FUEL COST
416150	REG UNMETERED DSM COST RECOVERY RIDER
416160	REG UNMETERED FAM CLEARING
416170	REG UNMETERED REVENUE
416210	REG UNMETERED ACCRUED NON FUEL DEMAND BASE
416230	REG UNMETERED ACCRUED FAM BASE FUEL
416240	REG UNMETERED ACCRUED FAM AA FUEL COST
416250	REG UNMETERED ACCRUED FAM BA FUEL COST
416310	REG MUNICIPAL NON FUEL DEMAND BASE
416320	REG MUNICIPAL NON FUEL ENERGY
416330	REG MUNICIPAL FAM BASE FUEL
416340	REG MUNICIPAL FAM AA FUEL COST
416350	REG MUNICIPAL FAM BA FUEL COST
416360	REG MUNICIPAL FAM CLEARING
416370	REG MUNICIPAL REV
416660	REG MARITIME LINK FUEL CREDIT
417210	REG OATT PTP FIRM
417220	REG OATT PTP NON FIRM
417230	REG OATT SCHEDULING
417240	REG OATT REACTIVE CONTROL
417250	REG OATT REGULATION
417260	REG OATT LOAD FOLLOWING

417270	REG OATT ENERGY IMBALANCE
417280	REG OATT OPERATIVE RESERVE
417290	REG OATT NETWORK SERVICES
417300	REG GRID SALES REVENUE
417500	REG CONNECTION CHARGES
417550	REG LATE PAYMENT CHARGES
417600	REG NSF CHEQUE CHARGES
417650	REG COLLECTION CHARGES
417850	REG BY PRODUCT SALES
417910	REG RETAIL SALES ETS
417920	REG RETAIL SALES EIS
417950	REG RETAIL SALES GREEN POWER
418050	REG RENTAL REVENUE
418100	REG STEAM SALES
418150	REG MISC REV TEMP SERVICE TO PERMANENT
418210	REG MISC REVENUE METER REMOVAL
418220	REG MISC REV COMMUNITY SOLAR PROGRAM
418250	REG WIRING INSPECTION REVENUE
418300	REG MISC REVENUE FACILITIES
418350	REG MISC REVENUE RENT LOWER WATER ST
418410	REG OTHER REV TD MISC PROJECT BILLINGS
418420	REG OTHER REV EXTERNAL CUST METER SEALING
418430	REG OTHER REV ALIANT INITIATIVE
418440	REG OTHER REV CATV ATTACHMENT
418450	REG OTHER REV ALIANT MAKE READY
418460	REG OTHER REV PRDI
418470	REG OTHER REV PARKING LWS
418480	REG OTHER REV NSPI FITNESS
418490	REG OTHER REV GIP FINAL COSTED
418500	REG OTHER REV HRSB SMART METER
418510	REG OTHER REV MUNICIPALITY OWNED STREET LIGHTS
418530	REG OTHER REVENUE OTHER
421100	REG MISC REVENUE
421450	REG GAS OTHER REVENUES
451050	AFUDC EQUITY
452050	AMORTIZATION OF DEFEASANCE
453050	FOREIGN EXCHANGE 3RD PARTY
453100	FOREIGN EXCHANGE GAIN LOSS FAM
453350	REALIZED GAIN LOSS
453400	PO RATE VARIANCE GAIN LOSS
453450	UNREALIZED GAIN LOSS
455110	PENSION NON CURRENT SERVICE COST
455120	PENSION NON CURRENT SERVICE COST RECOVERY

455300	OTHER INCOME SALVAGE
455350	OTHER INCOME MISC REVENUE
502050	REG FUEL GAS CONSUMED
502100	REG FUEL GAS CONSUMED FX
502150	REG FUEL GAS CONSUMED COMMODITY DERIV
502160	REG FUEL GAS SOLD
502170	REG FUEL GAS PIPELINE LOSSES
502200	REG NATURAL GAS PIPELINE TOLL
502250	REG FUEL COAL CONSUMED
502260	REG FUEL COAL CONSUMED IMPORT
502270	REG FUEL COAL CONSUMED DOMESTIC
502280	REG FUEL COAL CONSUMED PETCOKE
502300	REG FUEL COAL CONSUMED FX
502350	REG FUEL COAL CONSUMED FUEL TESTING
502380	REG FUEL BIOMASS CONSUMED
502400	REG FUEL BUNKER C CONSUMED
502450	REG FUEL BUNKER C CONSUMED FX
502460	REG FUEL BUNKER C CONSUMED COMMODITY DERIV
502500	REG FUEL DIESEL OIL CONSUMED
502550	REG FUEL LIGHT OIL CONSUMED
502600	REG FUEL ADDITIVES CONSUMED
502650	REG FUEL LIMESTONE CONSUMED
502700	REG PURCHASED POWER
502720	REG PURCHASED POWER NET METERING
502750	REG PURCHASED POWER FX
502800	REG PURCHASED POWER COMMODITY DERIV
502850	REG PURCHASED POWER IPP PRE 2001
502900	REG PURCHASED POWER IPP POST 2001
502950	REG PURCHASED POWER COMFIT SMALL
503050	REG PURCHASED POWER COMFIT LARGE
503060	REG PURCHASEED POWER MARITIME LINK
503200	REG NATURAL GAS REVENUE
503250	REG NATURAL GAS REVENUE FX
503300	REG WIND RECEIVABLES PURCHASED POWER
503350	REG WIND RECEIVABLES FUEL FOR GENERATION
503400	REG EMISSION ALLOWANCE EXPENSE
504050	REG GRID SALES FUEL COAL CONSUMED
504100	REG GRID SALES FUEL BUNKER C CONSUMED
504200	REG GRID SALES MERCURY SORBENT
504250	REG GRID SALES MERCURY SORBENT FX
504300	REG GRID SALES PURCHASED POWER
504400	REG GRID SALES FUEL NATURAL GAS
504410	REG GRID SALES FUEL NATURAL GAS CLEARING

504450	REG GRID SALES FUEL DIESEL
505050	REG FUEL AFFILIATES
507050	REG FAM INCENTIVE
507100	REG FUEL ADJUSTMENT
507150	REG FIXED COST RECOVERY ADJUSTMENT
507200	REG RATE STABILIZATION ADJ FIXED COST RECOVERY
507250	REG DSM DEFERRAL
507300	REG DSM EXPENSE
530050	REGULAR LABOUR
530060	REGULAR LABOUR PAID TIME OFF
530100	REGULAR LABOUR PREFERRED COMPENSATION UNITS
530200	OVERTIME LABOUR
530210	OVERTIME LABOUR PAID TIME OFF
530250	SALES COMMISSION SALARIES
530300	TERM LABOUR
530310	TERM LABOUR PAID TIME OFF
530320	TERM LABOUR OVERTIME
530350	LOANED OPERATING LABOUR
530360	BORROWED OPERATING LABOUR
530400	LOANED CAPITAL LABOUR
530450	GROUP BENEFITS
530550	LABOUR CLEARING
530600	INCENTIVE BONUS
530650	REGULAR LABOUR INCENTIVE
530750	VACATION EXPENSE
530800	EE COMMON SHARE PURCHASE PLAN
530850	SEVERANCE COSTS
530900	OFFICE SUPPLIES
530950	TRAVEL EXPENSE
531100	IEXPENSES CAR RENTAL
531150	IEXPENSES TAXI
531200	IEXPENSES ACCOMMODATIONS
531250	IEXPENSES HOTEL ROOM TAX
531300	IEXPENSES KMS MILAGE
531350	IEXPENSES AIRFARE
531400	MATERIALS
531450	MATERIALS SAFETY PROMOTION
531500	MATERIALS CORPORATE PROMOTIONAL ITEMS
531510	MATERIALS ASH DISPOSAL
531550	CONTRACTS
531600	CONTRACTS SHARE SERVICE ALLOCATIONS
531650	CONTRACTS LTSA
531700	CONTRACTS CUSTOMER COMPLAINTS

531710	CONTRACTS ASH DISPOSAL
531750	SECURITY
531800	FREIGHT POSTAGE DELIVERY SHREDDING
531850	CHEMICALS
531900	RECYCLINGSHREDDING
531950	WATER
532050	CLEANING
532100	TELEPHONES
532150	TELEPHONE CELLULAR
532200	TOOLS EQUIPMENT
532250	LEASING
532300	LAND LEASES
532310	SHORT TERM LEASE EXPENSE - OPERATING LEASE
532320	LONG TERM LEASE EXPENSE - OPERATING LEASE
532330	VARIABLE LEASE EXPENSE - OPERATING LEASE
532350	SPONSOR OTHER DONATIONS
532400	SPONSOR OTHER DONATIONS SCHOLARSHIPS
532450	CORPORATE FILING FEES
532500	CONSULTING
532550	CONSULTING SHARE SERVICE ALLOCATIONS
532600	MEMBERSHIP DUES
532650	LUBRICANTS
532700	FLEET FUEL
532750	SUBSCRIPTION INFO SOFTWARE
532800	INTERNET COMMUNICATIONS
532850	APPLICATION SOFTWARE
532900	COMPUTER HARDWARE OPERATING SOFTWARE
532950	DIRECTORS FEES EXPENSES
533050	DIRECTORS COMPENSATION UNITS
533100	EXTERNAL LEGAL AUDIT
533150	ANNUAL SHAREHOLDERS MEETING
533200	ANNUAL SHAREHOLDER MEETING SHARE SERVICE ALLOCATIONS
533250	DONATIONS
533300	DONATIONS GOOD NEIGHBOUR FUND
533350	ADVERTISING
533400	MEALS ENTERTAINMENT
533410	OVERTIME MEALS
533450	IEXPENSES TIPS
533500	EMPLOYEE BENEFITS
533510	EMPLOYEE BENEFITS ALLOCATION
533520	EMPLOYEE BENEFITS GENERAL
533525	EMPLOYEE BENEFITS LTD

533550	INSURANCE
533700	CORPORATE CREDIT CARD CLEARING
533750	RENT
533800	FLEET REPAIRS
533850	NON REGULATORY COST RECOVERY
533900	COST RECOVERY
533950	COST RECOVERY PREFERRED COMPENSATION UNITS
534500	INTERNAL SERVICES RECEIVED
534550	WARRANTY SERVICE CONTRACTS
534600	WARRANTY SERVICE CONTRACTS CUSTOMER GOODWILL
534650	TRAINING DEVELOPMENT
534700	CORPORATE SUPPORT ALLOCATION
534750	PERSONAL EQUIPMENT
534800	COMMISSIONS
534850	WRITE OFFS
534950	CUSTOMER RECOVERY
535100	OTHER GOODS SERVICES
535150	PREFERRED COMPENSATION UNITS
535200	EXECUTIVE STOCK OPTION PLAN
535300	SHARE SERVICE ALLOCATIONS
535350	DEFERRED COMPENSATION UNITS
535400	DIRECTORS COMPENSATION UNITS
535450	ASH DISPOSAL
535500	SHORT TERM INTEREST
535550	BANK CHARGES MISC INTEREST
535600	TAX ASSESSMENT
535650	VEHICLE ALLOCATED COSTS
535700	ADMIN OVERHEADS
535705	ADMIN OVERHEADS CONTRACTOR
535800	HEALTH SAFETY
535850	MISC REVENUE
535860	MISC REVENUE - EASTLINK
535900	GASES
535950	ROYALTIES EASEMENTS APPRAISALS
536050	DATA COMMUNICATION CIRCUITS
536100	RENTAL AND MAINTENANCE OF EQUIPMENT
536150	REPAIRS MAINTENANCE
536200	ENERGY USE NON ELECTRIC
536250	PENSIONER BENEFITS
536300	GEN COST RECOVERY
536350	GEN COST RECOVERY PARKING LOWER WATER STREET
536550	PO RATE VARIANCE RECOVERIES
536650	THIRD PARTY CLAIMS

536700	RELOCATION EXPENSE
560050	GRANTS IN LIEU OF TAXES
562050	DEPRECIATION EXPENSE
562100	ACCRETION EXPENSE
563050	AMORTIZATION OF DEFERRED TAXES
563100	REGULATORY AMORTIZATION UNUSUAL ITEMS DEFERRALS ETC
563110	AMORTIZATION OF HYDRO GENERATION FACILITIES
564050	AMORTIZATION OF STREETLIGHT STRANDED ASSET
565100	COGS MATERIAL
565150	COGS INSTALLATION
565250	COST VARIANCE
565350	DISCOUNT TAKEN
565400	RETROACTIVE PRICE ADJUSTMENT
565450	NON ASSET INVENTORY EXPENSE
600100	INTEREST EXPENSE NSPI
600200	LONG TERM DEBT INTEREST
600500	NSPI BOND PREMIUMDISCOUNT EXPENSE
600550	ISSUE COSTS
601050	SHORT TERM INTEREST STD
602050	BANK CHARGES MISC INTEREST
604050	INTEREST INCOME
604100	INTEREST INCOME MS RESIDENTIAL FINANCING
604120	INTEREST INCOME DSM
604150	INTEREST INCOME HEAT PUMPS PROGRAM
604200	INTEREST INCOME MS COMMERCIAL FINANCING
604250	INTEREST INCOME REG DEFERRAL FOR RENEWABLE TO RETAIL
604260	INTEREST INCOME ETS
604450	INTEREST CAPITALIZED FAM
604500	INTEREST CAPITALIZED FIXED COST RECOVERY
605050	AFUDC INTEREST
611050	INCOME TAX EXPENSE CURRENT
612050	INCOME TAX EXPENSE FUTURE
613100	INCOME TAX EXPENSE FUTURE FAM
660150	PREFERRED DIVIDENDS

LINE OF BUSINESS SEGMENT

Line of Business Segment Value	Line of Business Segment Description
000	DEFAULT

011	SOLID FUEL
012	NATURAL GAS
013	OIL
019	THERMAL GENERAL
021	WIND
022	HYDRO
023	TIDAL
024	BIOMASS
025	SOLAR
029	RENEWABLES GENERAL
091	BY PRODUCT SERVICES
099	POWER GENERATION GENERAL
111	SUBSTATION OPERATIONS TRANSMISSION
119	TRANSMISSION GENERAL
121	SUBSTATION OPERATIONS DISTRIBUTION
122	FIELD OPERATIONS PLT
123	METER AND INSPECTION SERVICES
129	DISTRIBUTION GENERAL
139	REGIONAL MARKETING GENERAL
149	CUSTOMER ACCOUNTS GENERAL
159	CUSTOMER SERVICE ELECTRIC
199	TRANSMISSION AND DISTRIBUTION GENERAL
239	UTILITY SERVICES GENERAL
241	SHARED SERVICES
900	CORPORATE

LOCATION SEGMENT

Location Segment Value	Location Segment Description
0000	DEFAULT
1101	LOWER WATER STREET
1102	TERMINAL ROAD
1103	BAYERS ROAD
1104	LAKESIDE
1106	PURDYS WHARF
1110	PROVINCIAL ENERGY VENTURES STORAGE
1111	LINGAN LONG TERM DEBT STORAGE
1112	BEARS HEAD
1113	POINT TUPPER MARINE TERMINAL
1114	INTERNATIONAL COAL PIER

1131	LINGAN UNIT 1
1132	LINGAN UNIT 2
1133	LINGAN UNIT 3
1134	LINGAN UNIT 4
1138	LINGAN COMMON PLANT
1139	LINGAN GENERAL
1141	POINT ACONI UNIT 1
1148	POINT ACONI COMMON PLANT
1149	POINT ACONI GENERAL
1152	POINT TUPPER UNIT 2
1158	POINT TUPPER COMMON PLANT
1159	POINT TUPPER GENERAL
1165	TRENTON UNIT 5
1166	TRENTON UNIT 6
1168	TRENTON COMMON PLANT
1169	TRENTON GENERAL
1171	TUFTS COVE UNIT 1
1172	TUFTS COVE UNIT 2
1173	TUFTS COVE UNIT 3
1174	TUFTS COVE UNIT 4
1175	TUFTS COVE UNIT 5
1176	TUFTS COVE UNIT 6
1177	AUXILIARY BOILER UNIT 1
1178	TUFTS COVE COMMON PLANT
1179	TUFTS COVE GENERAL
1180	LM BUILDING
1191	TUSKET UNIT 1
1198	TUSKET COMMON PLANT
1199	TUSKET GENERAL
1201	VICTORIA UNIT 1
1202	VICTORIA UNIT 2
1208	VICTORIA COMMON PLANT
1209	VICTORIA JUNCTION GENERAL
1211	BURNSIDE UNIT 1
1212	BURNSIDE UNIT 2
1213	BURNSIDE UNIT 3
1214	BURNSIDE UNIT 4
1218	BURNSIDE COMMON PLANT
1219	BURNSIDE GENERAL
1297	STEAM GENERAL
1298	GAS GENERAL
1299	POWER GENERATION GENERAL
1300	DIGBY NECK

1301	GRAND ETANG
1302	LITTLE BROOK
1303	NUTTBY
1304	SABLE
1305	SOUTH CANOE NEW ROSS
1306	POINT TUPPER RESL
1307	POINT TUPPER 3 RESL
1308	BROOKLYN POWER IPP
1309	CAPE SHARPE IPP
1310	WIND GENERAL
1350	AVON
1351	BEAR RIVER
1352	BLACK RIVER
1353	DICKIE BROOK
1354	FALL RIVER
1355	HARMONY
1356	LEQUILLE
1357	MERSEY
1358	PARADISE
1359	SHEET HARBOUR
1360	ST MARGARETS BAY
1361	WRECK COVE
1362	NICTAUX PARADISE
1363	ROSEWAY AND HARMONY
1364	SISSIBOO WEYMOUTH
1365	MILTON
1366	WHITE ROCK
1367	TUSKET RIVER
1370	HYDRO GENERAL
1380	ANNAPOLIS
1401	PORT HAWKESBURY UNIT 1
1408	PORT HAWKESBURY COMMON PLANT
1409	PORT HAWKESBURY GENERAL
1410	BIOMASS GENERAL
1450	CENTRAL
1451	EAST
1452	METRO
1453	NORTH EAST
1454	WEST
1455	TRANSMISSION GENERAL
1456	DISTRIBUTION GENERAL
1457	RAGGED LAKE
1460	T AND D GENERAL

1500	NOVA SCOTIA GENERAL
1550	SOLAR GENERAL

COST CENTRE SEGMENT

Cost Centre Segment Value	Cost Centre Segment Description
000	DEFAULT
001	MAINTENANCE
002	OPERATIONS
003	ADMINISTRATION
004	ENVIRONMENT
005	SAFETY
006	PROCUREMENT
007	CUSTOMER CARE CENTRE
008	HUMAN RESOURCES
009	BILLING SERVICES
010	FACILITIES
011	ENGINEERING
012	FINANCE
014	FLEET SERVICES
015	FUEL HANDLING
016	ACCOUNTING
017	MARKETING
018	PENSION ADMINISTRATION
019	FORESTRY AND VEG MANAGEMENT
020	MAJOR DEVELOPMENTS
022	TRADING
023	FUELS FINANCE
024	ASSET MANAGEMENT
025	TAX
026	SYSTEM MAINTENANCE
027	SYSTEM PLANNING AND OPTIMIZATION
029	TREASURY
030	LEGAL
031	PLANNING
032	SECURITY
033	RESOURCE MANAGEMENT
034	CONTROLLER
035	INFORMATION TECHNOLOGY

036	TECHNICAL SERVICES
037	TALENT ACQUISITION
038	GENERATION ASSET MANAGEMENT
039	GENERATION SERVICES
040	OFFICE OF THE CEO
044	CORPORATE AFFAIRS
045	ENTERPRISE RISK MANAGEMENT
046	METER READING
047	CREDIT SERVICES
048	CORPORATE SECRETARY
049	CORPORATE INSURANCE
050	REGULATORY AFFAIRS
051	ENERGY FUELS AND RISK MGMT.
054	INSPECTION PROGRAM
056	VP FINANCE
057	CHEM LAB AND ENVIRONMENTAL
058	PAYMENT SERVICES
060	METER SERVICES
061	INVESTOR RELATIONS
064	UTILITY SERVICES
066	ORIGINATION
067	INTERNAL AUDIT
068	FUELS PORTFOLIO OPTIMIZATION
069	PROJECTS
071	ENERGY EFFICIENCY
072	DIRECTOR OF SAFETY
073	EMPLOYEE SERVICES
074	CONTROL CENTRE OPERATIONS
077	DIRECTOR PLANT OPS
079	DIRECTOR OF HUMAN RESOURCES
080	TECHNICAL AND CONSTRUCTION SERVICES
083	OPERATING SYSTEMS AND DOCUMENT CONTROL
084	FINANCIAL ANALYSIS
085	CORPORATE ADJUSTMENTS AND ALLOCATIONS
086	EXECUTIVE MANAGEMENT
087	VP INTEGRATION
089	MARITIME LINK INTEGRATION
090	TRANSMISSION LINE
091	CAPITAL PLANNING AND EXECUTION
092	COMMUNICATIONS AND PUBLIC AFFAIRS
093	CAPITAL MANAGEMENT AND PERFORMANCE
094	PETC PROTECTION EQUIPMENT TEST CENTRE
095	TELECOM

096	COMMERCIAL SOLUTIONS
098	WAREHOUSE OPERATIONS
099	WIRE INSPECTION SERVICE
100	APPRENT. LINE TECHNICIANS
101	STRATEGIC DEVELOPMENT
102	CAPITAL ACCOUNTING AND ANALYSIS
103	PROCUREMENT AND REAL ESTATE
105	ACCOUNTS PAYABLE
106	INTERCONNECTION STUDIES CCO TARIFFS
107	STRATEGIC INITIATIVES
108	HEALTH AND WELLNESS
109	DELIVERY SERVICES
110	HR STRATEGIES GROUP
111	OFFICE OF THE COO
112	SECONDMENTS
113	WORK MANAGEMENT
114	EVP OPERATIONS
116	DOWNLINE RECLOSER SHOP
117	STORM
118	CUSTOMER SOLUTIONS
119	PROJECT IMPLEMENTATION
120	COMPLIANCE
121	CUSTOMER COMMUNICATIONS AND QUALITY ASSURANCE
125	TRANSMISSION RELIABILITY AND ADMIN.
126	FITNESS CENTER
127	RESOURCE PLANNING GROUP
128	HEALTH PROMOTION
129	STRATEGIC PROCUREMENT
134	BUSINESS INTELLIGENCE AND ANALYTICS
135	TECHNOLOGY SECURITY AND CYBER RISK MANAGEMENT
136	TECHNOLOGY PROJECT MANAGEMENT OFFICE
137	TECHNOLOGY ENTERPRISE ARCHITECT
138	TECHNOLOGY OPERATIONS
139	TECHNOLOGY INTEGRATED SUPPORT TEAM
140	TECHNOLOGY BUSINESS SUPPORT
141	TECHNOLOGY SERVICE DELIVERY
142	TECHNOLOGY TECHNICAL SUPPORT
146	CHANGE MANAGEMENT
150	TECHNOLOGY STRATEGIC PLANNING
153	OFFICE OF THE CCEO
900	CAPITAL

COMPANY/INTERCOMPANY SEGMENT

Company/ Intercompany Segment Value	Company/Intercompany Segment Description
000	DEFAULT
001	NSPI
002	NSPI ASSIST 2017 INC
009	EMERA INC
012	ENERGY SERVICES
016	EE SERVICES US
017	EE US SUB 1
022	NSP PIPELINE
025	SCOTIA POWER US
033	CAYMAN 456 LTD
038	EMERA ENERGY LP
039	EMERA ENERGY LP HOLDCO
060	BAYSIDE POWER INC
061	BAYSIDE POWER LIMITED PARTNERSHIP
062	BROOKLYN POWER CORPORATION
064	BRIDGEPORT
065	TIVERTON
066	RUMFORD
080	NSP MARITIME LINK
081	ENL ISLAND LINK INC
082	EMERA NEWFOUNDLAND AND LABRADOR HOLDINGS INC
100	NOVA SCOTIA POWER ENERGY MARKETING INC
121	EUS HEAD OFFICE
130	EUS OPERATIONS
201	TECO ENERGY
202	TECO SERVICES INC
212	NEW MEXICO GAS COMPANY
221	TAMPA ELECTRIC
231	PEOPLE'S GAS
324	3240384 NOVA SCOTIA LIMITED
350	EMERA BRUNSWICK PIPELINE CO LTD
383	3065383 NS CO
389	EMERA REINSURANCE
390	EMERA US HOLDINGS
393	BANGOR HYDRO
394	EMERA ENERGY GENERATION
396	EMERA ENERGY GENERATION II

397	CLEAN POWER NORTH EAST DEVELOPMENT INC
402	EMERA US FINANCE LP
404	EMERA US FINANCE NO1 LLC
408	EUSHI FINANCE NO 1 LLC
410	EMERA TECHNOLOGIES INC
411	3325140 NOVA SCOTIA LIMITED
415	GRAND HVAC
654	3267654 NOVA SCOTIA LTD
851	GRAND BAHAMA POWER COMPANY
853	BARBADOS LIGHT AND POWER
854	THE BARBADOS LIGHT AND POWER COMPANY LIMITED
855	LIGHT AND POWER HOLDINGS
862	DOMINICA
922	3081922 NS LTD

Request DR-7:

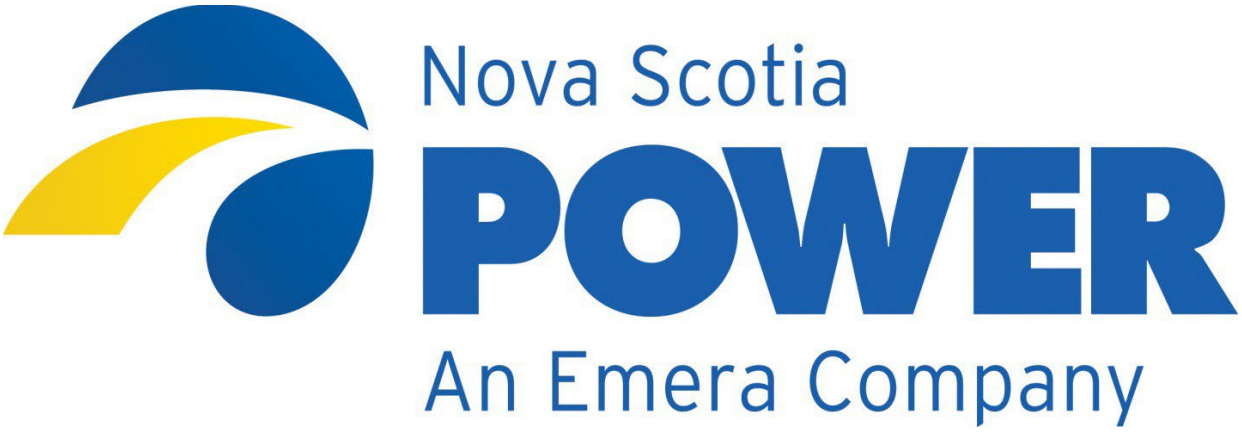
How is the Chart of Accounts reflected in the COSS model? Provide a concordance between Accounting IDs and line items in the COSS model.

Response DR-7:

Cost data inputs into the COSS model come from a variety of financial sources within the Company. Chart of Accounts (COA) from which these data inputs originate can be identified easily in the case of OM&G, Capital and Fuel Costs.

NS Power does not have a list mapping each rate base or cost category in its COSS model into applicable COA. However, NS Power's COSS Excel model has data links to various Excel spreadsheets, some of which identify Accounts numbers. For details on how external information flows into the COSS data inputs tab, please refer to NS Power's response to Synapse IR-26 provided in NS Power's 2022-2024 General Rate Application (M10431).

Please also refer to Attachment 1 for the FAM POA. Subsection 3.2 Allowable Fuel and Purchased-Power Costs includes information on fuel cost accounts applicable under the FAM corresponding to fuel cost-related section (rows 1 through 8) on page 1 of Exhibit 5 of the COSS model.



Fuel Adjustment Mechanism
Plan of Administration
in Effect for 2023-2024

February 2, 2023

NS Power
FUEL ADJUSTMENT MECHANISM
PLAN OF ADMINISTRATION IN EFFECT FOR 2023-2024
February 2, 2023

Table of Contents

1.0 GENERAL DESCRIPTION 3
2.0 FAM COMPONENTS 5
3.0 CALCULATION OF THE FAM RATE 6
4.0 FILING AND PROCEDURAL DEADLINES 23
5.0 AUDIT AND OVERSIGHT 25
6.0 STAKEHOLDER REVIEW AND DISCOVERY 29
7.0 DEFINITIONS 30

Appendix A – Sample FAM Calculations
Appendix B – Forecasting Methodology
Appendix C – FAM Reporting Requirements and Templates
Appendix D – FAM Regulatory Calendar (Stakeholder Engagement)
Appendix E – FAM Tariff

1.0 GENERAL DESCRIPTION

This document describes the plan for administering Nova Scotia Power Inc.'s (NS Power) Fuel Adjustment Mechanism (FAM), which was approved by the Nova Scotia Utility and Review Board (Board) in its decision letter issued on December 11, 2008. The FAM provides for the recovery of fuel and purchased power costs beginning January 1, 2009.

The Plan of Administration (POA) outlines the application and operation of the FAM. The Base Cost of Fuel will be calculated as set out in Section 2 "FAM COMPONENTS".

The Base Cost of Fuel can be reset in a General Rate Application (GRA), every second year as part of the FAM adjustment process, or as directed by legislation or an order of the Board. A forecast of costs and load for each test year will be used to set the Base Cost of Fuel. During the 2023-2024 GRA Period, the Base Cost of Fuel is set below full recovery of the forecast costs over the two test years: 2023 and 2024. The change in the Base Cost of Fuel will be reflected in customers' rates going forward and will be applied to each customer class in a manner consistent with the Cost of Service Study (COSS). In addition, the under-recovery balance from the prior fuel stability period of 2020-2022 will be deferred for recovery in future FAM AA/BA riders and there will be no FAM AA/BA rider in effect for 2023.

Stakeholders shall have the opportunity (and access to information) to challenge the implementation of the methodology and the contents of any forecast prior to its use in re-setting the Base Cost of Fuel. Both the implementation of the methodology and the forecasts will be the subject of a formal Board proceeding in which stakeholders will have their current rights as in general rate cases.

Stakeholders shall have the opportunity to challenge NS Power's fuel costs (and to secure access to information) at each annual or applicable hearing before the Board consistent with their current rights in general rate cases. The Board will also subject NS Power's FAM accounts to audits as per section 5.0 "Audit and Oversight" and as it deems appropriate.

The FAM will pass through the difference between actual costs and the Base Cost of Fuel to customers calculated on a ¢/kWh basis.

Interest will be added to all over/under-balance amounts and calculated at NS Power's Annual Weighted Average Cost of Capital (WACC).

The FAM will recover fuel cost changes resulting from over/under-recovery amounts, including an Actual Adjustment (AA) and a Balancing Adjustment (BA) for each rate class. The FAM adjustment is the difference between actual fuel cost and the Base Cost of Fuel) and will be calculated on a ¢/kWh basis.

2.0 FAM COMPONENTS

Each January 1 through December 31 period shall constitute a distinct FAM year. Under the FAM, an adjustment will normally be calculated once per year to reflect the over/-under recovery.

The FAM adjustment will consist of two components designed to provide for the recovery of fuel and purchased power costs. Those components are:

1. The Actual Adjustment Component (AA)

    a. Established at a rate expected to recover the amount of the difference between the prior FAM year's actual fuel and purchased power costs and those recovered through the Base Cost of Fuel Component to the end of September of the prior year and October to December of the year before that, making 12 months of actuals.

2. The Balancing Adjustment Component (BA)

    a. The Balancing Adjustment Component will provide for a correction to ensure that over/under-recovery produced by the Actual Adjustment Component is tracked and refunded to or recovered from customers.

    b. The Balancing Adjustment Component may also include, subject to specific Board approval, deferrals of fuel and purchased power costs existing at the time of FAM adoption or that result from any future Board decision.

3.0 CALCULATION OF THE FAM RATE

NS Power's FAM is a forecasted base fuel rate operating on an annual cycle that includes an over/under recovery mechanism consisting of an Actual Adjustment (AA) and Balance Adjustment (BA).

The following formula will be used to determine the fuel adjustment factor (Fuel Adjustment Factor) for each upcoming FAM period:

Fuel Adjustment Mechanism Formula = AA + BA

Where:

1. AA is the Actual Adjustment that accounts for any differences between revenues collected through the application of the FAM during the previous one year period and actual Fuel Costs for each rate class (adjusted for the FAM incentive on an overall fuel cost basis) for the same one year period.

   The AA rate is calculated for the following year on the basis of the over- or under-recovery of the Base Cost of Fuel at the end of September (year 1). Any over- or under-recovery from October to December will not be included in the rate calculation and will be deferred for recovery until the year subsequent to the following year (year 3). The actual AA starting balance for the following year (year 2) is the over- or under-recovery of the Base Cost of Fuel at the end of December (year 1).

2. BA is the Balance Adjustment that accounts for any over- or under-recovery amounts resulting from prior adjustments. The BA will also be the mechanism used to manage any deferred fuel and purchased power costs approved by the Board for inclusion in the BA.

The BA rate is calculated for the following year (year 2) on the basis of the over- or under-recovery of the Actual Adjustment and Balance Adjustment at the end of September (year 1). The actual BA starting balance for the following year (year 2) is the over- or under-recovery of the Actual Adjustment and Balance Adjustment at the end of December (year 1).

Appendix "A" to this Plan of Administration titled "Sample FAM Calculations", provides a step by step detailed calculation of the overall Base Cost of Fuel, Actual Adjustment (AA), and Balancing Adjustment (BA) for a sequence of years starting in 2009. The applicable calculations illustrated in Appendix "A" will be used as outlined in the FAM Tariff in Appendix E.

Calculation of the Actual Adjustment Factor (AA) and Balancing Adjustment Factor (BA) FAM components will follow the fuel-related cost allocation methodology.

Actual (i.e. after the fact) fuel-related costs will be allocated in the same manner as the test year fuel-related costs used in setting base rates. In summary, this procedure will operate as follows:

1. A portion of the total fuel-related costs will be assigned to the following categories of non-FAM classes based on their fuel costing principles:

    a. The below-the-line bundled service rates for Generation Replacement and Load Following (GRLF), 1P-RTP and Shore Power classes.

    b. The Extra-Large Industrial Active Demand Control (ELIADC) class.

    c. The unbundled tariffs: Open Access Transmission Tariff (OATT), Wholesale Market Backup/Top-up Service Tariff (BUTU), Energy Balancing Service Tariff (EBS), Renewable to Retail Market Transition Tariff (RTT).

d. All remaining fuel-related costs will be allocated to ATL classes.

2. For ATL classes, NS Power's fuel costs will be classified as 100 percent energy-related. These costs will be allocated to each class based on its relative contribution to monthly energy requirement.

3. Fuel costs assigned to the Wholesale Market Non-Dispatchable Supplier Spill Tariff and Wholesale Market Backup/Top-up tariff will be based on avoidable fuel costs.

4. Purchased power and Import costs will be classified to demand and energy as follows.

a. In-province purchased power from wind generation will be segregated between Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS). Their classification between energy and demand related services will reflect concurrent generation planning practice of NS Power. For the rate setting purposes of the 2023-2024 GRA Period the Company attributed to demand 18% of installed wind capacity of NRIS projects and 18% of ERIS projects.

b. In-province purchased power from biomass generation will be classified between energy and demand in the same proportion as classification of total costs of the Port Hawkesbury biomass plant.

c. In-province purchased power from all other sources than wind and biomass will be classified to demand and energy in the same manner as to NS Power's fixed cost base load generation.

d. Maritime Link imports under Nova Scotia Block will be classified to energy and demand on the basis of the system load factor associated with the above-the-line (FAM) classes.

e. Non-firm imports will be all classified to energy.

The demand-related portion of these costs will be allocated to each class based upon its relative coincident contribution to the three monthly system peaks (3CP) occurring in December, January and February. The energy portion of these costs, with the exception of the non-firm imports, will be allocated to each class based on its relative contribution to annual energy requirement. Non-firm imports will be allocated to each class based on its relative contribution to monthly energy requirements.

5. Export revenues are allocated to ATL classes based on monthly energy requirements.

6. In order to ensure that allocated fuel-related costs are aligned with the revenue expected from approved rates for each class, the costs will be scaled up or down using the revenue-to-cost ratio (R/C ratio) for each class. The resultant costs by class will then be reconciled to the total ATL fuel-related costs based on their relative share of the total fuel costs.

7. The interest amount on the over- or under-recovery of fuel costs is apportioned to the individual rate classes at the end of the year on an annual basis using the following approach:

a. In a year where the interest amount owed to customers by NS Power at the end of September coincides with an over-recovery of fuel costs to the end of September in that year, or where the interest amount owed by customers to NS Power at the end of September coincides with an under-recovery of fuel costs to the end of September in the year, the interest amount will be apportioned to each class based on its relative share of the year-end fuel cost variance during that year.

b. In a year where there is an interest balance owed to customers even though there has been an under-recovery of fuel costs to the end of September, or there is an interest balance owed to NS Power even though there was an over-recovery of fuel costs, NS Power will apportion the outstanding interest balance to each rate class on the basis of the relative class shares in the actual annual fuel cost incurred by NS Power.

The apportioned interest expense or credit is added to the fuel cost variance by class to provide the total fuel and interest (over)/under-recovery amount by class.

In order to determine the factor to be used as the Actual Adjustment (AA) component of the FAM, fuel-related costs allocated to each class in base rates will be subtracted from actual fuel-related costs allocated to each rate class. The difference in costs will be divided by the forecast energy sales (i.e. excluding line losses) to yield a credit or additional charge (in cents/kWh) that would normally be applied to customers' bills for the subsequent year. For the 2023-2024 GRA Period, the AA/BA credit or charge (in cents/kWh) will be determined in 2023 for 2024 AA/BA riders. Any under/over recovered BCF amounts at the end of September 2023 will be used to determine the AA charge or credit for 2024.

The Balance Adjustment (BA) component of the FAM will be set to recover or refund any under or over-recovery due to prior adjustments. These adjustments may include variances in actual and forecasted sales volumes that were applied to the

prior year AA that result in an under or over-recovery, any over- or under-recovered BCF amounts from October to December of the prior year, along with the associated interest component. The BA component may also capture other fuel-related factors subject to Board approval. For the 2024 BA under-recoveries that have been deferred from the prior fuel stability plan 2020-2022 will be included in the balance.

3.1 Treatment of load migrating to non-FAM classes

When a customer transitions some or all of its load from a FAM-class to a non-FAM class, NS Power shall determine the customer's outstanding fuel cost imbalance at the date of transition. This determined imbalance will be adjusted in accordance with UARB decisions in subsequent FAM proceedings relating to the period in question (i.e. FAM AA/BA proceedings or a FAM Audit proceeding). The adjustments will be subject to UARB approval.

The outstanding balance and subsequent adjustments will be paid (or reimbursed) in full on reasonable terms acceptable to the customer and NS Power, or if the parties are unable to agree, as determined by the UARB. Where payment is made over time, the transitioning customer shall pay, in addition, any carrying costs such that remaining customers and NS Power are kept whole.

3.2 Allowable Fuel and Purchased-Power Costs

This section of the POA provides a framework for the fuel and purchased-power costs eligible for recovery through the FAM. Those costs will include allowable fuel expenses plus purchased-power expenses, less revenues from exported power and other fuel- and power-sale revenues.

Allowable fuel expenses will include normal, recurring, non-capital expenses that have been prudently incurred. Discrepancies between the value of measured fuel quantities and the book value of each fuel may also be included if those discrepancies are reasonably

supported through surveys, tank level readings and pipeline reports. Exceptional or non-recurring costs appropriately classified as a fuel and purchased power cost will be brought to the attention of the Small Working Group for review for inclusion in the FAM.

NS Power understands that these costs are subject to audit, both internal and external, and to approval by the Nova Scotia Utility and Review Board. Allowable Fuel and Purchased Power Costs will include the following items:

3.2.1 Natural Gas

- Natural Gas Consumed
- Financial Instruments used for Hedging (including gains, losses, fees and interest charges)
- Pipeline Reservation Fees, Tolls, Penalties (such as imbalance charges)
- Pipeline Losses
- Natural Gas Storage Fees
- GHG Emission Compliance Program costs

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

502050	REG FUEL GAS CONSUMED
502160	REG FUEL GAS SOLD
502100	REG FUEL GAS CONSUMED FX
502200	REG NATURAL GAS PIPELINE TOLL
502150	REG FUEL GAS CONSUMED COMMODITY DERIVATIVES
502170	REG FUEL GAS PIPELINE LOSSES
504410	REG GRID SALES FUEL NATURAL GAS CLEARING
504400	REG GRID SALES FUEL NATURAL GAS

3.2.2 Solid Fuel

Solid fuel costs are collected into three categories: Inventoried Costs, Costs Directly Applied, and Costs Expensed Through Plant Fuel Handling Adjustments. Those categories include the following costs:

- Inventoried costs
  - Commodity Costs - Coal, Petroleum Coke
  - Financial Instruments used for Hedging (including gains, losses, fees and interest charges)
  - Third-party Quality Testing and Sampling
  - Transportation Costs (e.g. by rail, barge, vessel, truck etc.)
    - Includes loading, unloading, dispatch, demurrage, port fees, draft surveys, marine service fees

- Costs directly applied:
  - Third Party Fuel Handling, Transportation (e.g movement between Long Term Dead Storage/Bear head and plants) and Maintenance related to Coal Piles
  - Storage fees (e.g. lease, handling fees, facility fees)
  - Environmental Compliance Fees (e.g. Provincial Air Emissions Fees)
  - Rail Car Costs (e.g. lease, repair, maintenance)
  - International Pier Operating & Maintenance Costs

- Costs expensed through the Plant Fuel Handling Adjustment:
  - At each thermal coal unit a demarcation point has been defined as the reclaim hoppers. Any solid fuel handling and transportation expenses up until the point of the reclaim hopper are considered a FAM expense. Costs will include the following items:

- NS Power labour and associated costs for Equipment Operators, Mechanics, Supervisors related to fuel handling and Lab Techs related to testing
- Costs associated with measurement of inventory (e.g. surveys, density testing)
- Non-capital materials for fuel handling (e.g. tools, replacement parts for machines)
- Repair costs for fuel handling equipment and infrastructure
- Heavy Equipment operating costs for fuel handling (e.g. rental and fuel)
- PTMT Pier Operating & Maintenance costs

Costs in all three Solid Fuel categories – inventoried, directly applied and expensed through plant fuel handling adjustments – are normally recorded in the following accounts in NS Power's Chart of Accounts:

502250	REG FUEL COAL CONSUMED
502260	REG FUEL COAL CONSUMED IMPORT
502270	REG FUEL COAL CONSUMED DOMESTIC
502290	REG FUEL COAL CONSUMED OTHER
502280	REG FUEL COAL CONSUMED PETCOKE
502350	REG FUEL COAL CONSUMED FUEL TESTING
502300	REG FUEL COAL CONSUMED FX
504050	REG GRID SALES FUEL COAL CONSUMED

3.2.3 Heavy Fuel Oil

- HFO/Bunker Fuel Consumed
- Financial Instruments used for Hedging (including gains, losses, fees and interest charges)
- Quality Testing and Inventory Measurement Costs

- Standby Emergency Response Services
- Third Party Supervision of Unloading
- Transportation Costs (e.g. rail, barge, vessel, truck etc.)
    - This would include loading, unloading, dispatch, demurrage, port fees, draft surveys, marine service fees
    - GHG Emission Compliance Program costs

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

502400	REG FUEL BUNKER C CONSUMED
502460	REG FUEL BUNKER C CONSUMED COMMODITY DERIVATIVES
502450	REG FUEL BUNKER C CONSUMED FX
504100	REG GRID SALES FUEL BUNKER C CONSUMED

3.2.4 Diesel Oil

- Diesel Commodity Consumed
- Transportation Costs
- Quality Testing and Inventory Measurement Costs
- GHG Emission Compliance Program costs

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

502500	REG FUEL DIESEL OIL CONSUMED
504450	REG GRID SALES FUEL DIESEL

3.2.5 Light Starter Oil

- LFO (Light Fuel Oil) Commodity Consumed
- Transportation Cost
- Quality Testing and Inventory Measurement Costs
- GHG Emission Compliance Program costs

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

502550 REG FUEL LIGHT OIL CONSUMED

3.2.6 Fuel – Additives

- Additives - Ultramag, FireShield, etc.
- Transportation Costs

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

502600 REG FUEL ADDITIVES CONSUMED
502650 REG FUEL LIMESTONE CONSUMED
504200 REG GRID SALES MERCURY SORBENT
504250 REG GRID SALES MERCURY SORBENT FX

3.2.7 Fuel – Limestone

- Limestone and related transportation
- Limestone Ash Hauling and Equipment Rentals
- Limestone Royalties
- Water Royalties

Costs of this type are normally recorded in the following account in NS Power's Chart of Accounts:

502650 REG FUEL LIMESTONE CONSUMED

3.2.8 Purchased Power

- Independent Power Producer (IPP) Purchases (e.g. Wholesale Market Non-Dispatchable Spill Tariff) IPP and COMFIT production bonuses and penalties
- Community Feed in Tariff (COMFIT) Purchases
- Developmental Tidal Feed in Tariff (Tidal FIT) Purchases
- Import Power Purchases and associated fees (e.g. transmission tariffs and losses)
- Renewable Energy credits
- Financial Instruments used for Hedging (including gains, losses, fees and interest charges)

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

502700 REG PURCHASED POWER
502750 REG PURCHASED POWER FX
502800 REG PURCHASED POWER COMMODITY DERIVATIVES

502850 REG PURCHASED POWER IPP PRE 2001
502950 REG PURCHASED POWER COMFIT SMALL
502900 REG PURCHASED POWER IPP POST 2001
502710 REG PURCHASED POWER INADVERTENT
503050 REG PURCHASED POWER COMFIT LARGE
504300 REG GRID SALES PURCHASED POWER
502720 REG PURCHASED POWER NET METERING

3.2.9 Fuel Biomass

- Biomass Commodity Consumed
- Maintenance and Operating expenses for Fuel Handling (allocation between OM&G and FAM)
- Third Party Quality Testing and Inventory Measurement Costs (e.g. surveys, density testing, sampling)
- Storage fees (e.g. lease, handling fees, facility fees)
- Environmental Compliance including Silviculture Fees and harvest audits
- Transportation Costs (e.g. by barge, truck etc.)
- GHG Emission Compliance Program costs

At the biomass plant a demarcation point has been defined as the bin collecting conveyor. Any fuel handling and transportation expenses related to steam for generation up until the point of the bin collecting conveyor are considered a FAM expense.

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

502380 REG FUEL BIOMASS CONSUMED

3.2.10 Fuel – Mercury Sorbent

- Additives – Powder Activated Carbon (PAC) and Calcium Chloride
- Transportation Costs
- Costs relating to a Hg (mercury) Diversion Program that has been approved by the Minister of Environment under the *Air Quality Regulations,* N.S. Reg. 28/2005, as amended.

Costs of this type are normally recorded in the following accounts in NS Power's Chart of Accounts:

504200	REG GRID SALES MERCURY SORBENT
504250	REG GRID SALES MERCURY SORBENT FX

3.2.11 Grid Sales Revenue

Revenue from power exports net of any transmission tariffs and losses. This includes Renewable Energy Credits arising out of the sale of renewable energy in the New England market.

3.2.12 Natural Gas Revenue

Revenue from the resale of natural gas.

3.2.13 Miscellaneous Revenue and Recoveries

Revenues from joint partnerships in wind farms (including the cost of NS Power's ownership which is applied to purchased power) and any other fuel-related miscellaneous revenues. These revenues include steam sales to Port Hawkesbury Paper and steam sales at the Trenton Generating station.

The following accounts are normally used to record revenues from power exports and natural gas resales, revenues from joint partnerships in wind farms, and other miscellaneous revenues related to fuel.

417300	REG GRID SALES REVENUE
503200	REG NATURAL GAS REVENUE
503250	REG NATURAL GAS REVENUE FX
503300	REG WIND RECEIVABLES PURCHASED POWER
503350	REG WIND RECEIVABLES FUEL FOR GENERATION
535850	MISC REVENUE

These revenues will offset FAM-eligible fuel and purchased-power costs.

At times, revenues may be recorded as credits to related expense accounts, depending on their nature and applicable accounting guidelines. In these events, full explanations will be provided regarding why they were not offset against FAM-eligible fuel costs.

3.2.14 Foreign Exchange

All NS Power Fuel Accounts are subject to adjustments to record expenses or revenues denominated in foreign currencies and include the gain or loss on currency hedges entered into for the purpose of fuel procurement.

3.2.15 Limited-Duration Fuel Testing

These fuel testing costs (including solid fuel, liquid fuel and additives such as PAC) consist of the amounts directly incurred for shipping and handling and for conducting the test (e.g., third party testing and analysis), and only to the extent incurred as part of limited duration test burns occasionally made by the Company. They shall be limited to non-capital costs and they shall be separately identified in the Company's accounting records.

3.2.16 BTL Costs

- Spill energy payments under the Wholesale Market Non-Dispatchable Supplier Spill Tariff
- Fuel cost incurred in providing service under the Wholesale Market Backup/Top-up Service tariff, less revenue received under the Wholesale Market Backup/Top-Up Service tariff net of non-fuel items

3.2.17 GHG Emission Compliance Program Costs

- The cost of emission allowances (credits) under the Nova Scotia Cap-and-Trade program and GHG emissions compliance programs.
- Transaction fees for purposes of purchasing or selling emission allowances (credits).

Costs of this type are normally recorded in the following account in NS Power's Chart of Accounts:

5XXXXX REG EMISSION ALLOWANCE EXPENSE

3.2.18 GHG Emission Compliance Program Revenue

- The revenue from the sale of emission allowances (credits) under the Nova Scotia Cap-and-Trade program or GHG emissions compliance programs.

Revenues of this type are normally recorded in the following account in NS Power's Chart of Accounts:

5XXXXX REG EMISSION ALLOWANCE REVENUE

3.3 Calculation of Fuel Costs

The fuel costs in the Base Cost of Fuel recovered through the FAM include allowable fuel and purchased power expenses (as noted in section 3.1 above) less revenues from exported power.

3.4 Deferrals

During the 2023-2024 GRA Period, NS Power may include prior FAM deferrals for certain rate classes (Large General, Medium Industrial, and Large Industrial) in order to save additional interest charges which would accrue by further deferring such amounts to the end of the 2023-2024 GRA Period.

4.0 FILING AND PROCEDURAL DEADLINES

Annual Filing Requirements for Fuel Adjustment Rider

In 2023 and 2024 NS Power will submit as required by Appendix "D" a Fuel Adjustment Mechanism Formula filing for the AA and BA, which shall provide a forecast of general system requirements and include a proposed calculation of the Fuel Adjustment Mechanism Formula for the upcoming year.

Annual Filing Requirements for Base Cost of Fuel Forecast

For each year in which NS Power applies to adjust the Base Cost of Fuel, a load forecast, Base Cost of Fuel and net system requirement forecast filing for the upcoming FAM year (January 1 - December 31) will be submitted as per the schedule set out in Appendix "D". A Plexos run Base Cost of Fuel forecast update will be provided as per the schedule set out in Appendix "D". The Board's decision on the Base Cost of Fuel for the succeeding year will take into consideration the fuel forecast update and any stakeholder comments on the update.

NS Power will use the standardized forecasting methods provided in Appendix "B". NS Power will submit the standard templates for all fuel related information, including the Fuel Forecast Standardized Filing consisting of Reports OE-1(A) to (Q) and Report OE- 12, as approved in the Board's Order dated May 15, 2007, in support of the Base Cost of Fuel forecast for the upcoming year. The inputs developed as part of the Fuel Forecast Methodology in Appendix B and any explanations and required supporting information will also be provided.

General Annual Filing Requirements

NS Power shall make standardized annual report filings in accord with the structure and templates provided in Appendix "C" on the first Business Day of the third month after the preceding year end.

Quarterly Filing Requirements

NS Power shall make standardized quarterly report filings in accord with the structure and templates provided in Appendix "C" on the first Business Day after the release of NS Power's quarterly financial results. NS Power's quarterly financial results are released in the second month after the preceding quarter end.

Monthly Filing Requirements

NS Power shall provide standardized monthly reports in accord with the structure and templates provided in Appendix "C" on the twenty-first day after the month end (or the next Business Day after the twenty-first day if the twenty-first day falls on a non-Business Day).

Changes to Reporting Information

No changes to the approved reporting templates, including but not limited to designation of information as confidential, shall be made without either agreement of NS Power and stakeholders and Board approval, or Board approval.

Suggested revisions to FAM documents will be submitted to Stakeholders for review and input.

5.0 AUDIT AND OVERSIGHT

The amounts charged through the FAM shall be subject to periodic audit to assure completeness and accuracy and to assure fuel and purchased power costs were incurred reasonably and prudently. The results of any audit shall form part of the issues for consideration by the Board in a subsequent FAM hearing to consider the re-setting of the Base Cost of Fuel, or setting of the Fuel Adjustment Factor, or a General Rate Case at the request of NS Power or any interested stakeholder or upon Board order. Following consideration of the audit in any such hearing, the Board may make such adjustments (with interest if appropriate) to existing balances or to already recovered amounts as it may find necessary.

Audit Process

The Board shall provide for the conduct of a Fuel Adjustment Mechanism (FAM) audit during the 2023-2024 GRA Period as it deems appropriate. The Board shall have a qualified independent firm conduct the audit. The audit will address the financial and management/performance aspects of NS Power's fuel procurement and recovery under the FAM. The audit will include the FAM Formula, actual fuel and purchased power costs, contracts and management performance that affect the audit period from January 1 to December 31 of the years within the audit period. Audits will normally cover two-year periods or such periods as determined by the Board.

Objectives and Scope of the Audit

The overall objective of the FAM audit will be to examine operational and managerial aspects of the fuel and energy procurement, management, and production functions and activities of NS Power, including any fuel or energy related affiliate transactions that involve these functions and activities directly or indirectly. The review will address adherence to good utility practice and consistency with the policies and procedures governing NS Power's procurement as described in the NS Power Fuel Manual.

The Scope of the Audit will include a review of fuel and energy procurement, fuel management, and generation production to determine whether NS Power has, in the period following that covered by the last preceding audit, conformed and may reasonably be expected to continue to conform to good utility practice. The audit will also consider whether NS Power's conduct of fuel and energy procurement, fuel management, and generation production has been consistent with the NS Power Fuel Manual in the following specific areas (without limitation as to other areas determined to be relevant to effective and efficient fuel and energy procurement, management, and production):

- Fuel and purchased power costs
- Review of overall operational availability and capacity factor for the generating fleet
- Conduct on-site inspection for fuel handling, quality control, inventory management and performance monitoring
- Review and analyze the model used for day ahead marketers to determine the correct dispatch of resources
- Review all Fuel and Purchased Power contracts executed by NS Power and NSPEMI for the period under review for prudency and for compliance with the Fuel Manual
- Review of NS Power's use of hedging to appropriate accounting and performance standards
- Review of system sales
- Review of internal and external audit reports on the procurement of fuel and purchased power
- Review of the calculation of Base Cost of Fuel and the FAM adjustments

Prior to setting the final audit scope, the auditor shall meet with NS Power and interested stakeholders.

Timing of the Audit

Audits are expected to commence in February of every second year or at such time as directed by the Board. Final reports will normally be filed by July 2 of every second year or on such other date as directed by the Board. The final report will evolve from a draft report which is provided to NS Power and the Board within 30 days of the filing of the final report. The draft report should contain functional area task reports, a management summary, and include findings of operating effectiveness and efficiency, as well as any recommendations for adjustments in costs or changes in functions and activities.

Confidentiality

By no later than seven (7**)** Business Days prior to filing of the final report with the Board, the auditor will provide the final report to NS Power for the purposes of reviewing for confidential information.

NS Power shall identify to the auditor any information in the report which NS Power wants held in confidence by the Board at least two (2**)** Business Days prior to the filing of the final report. Based on the confidential information identified by NS Power, the auditor will file with the Board a confidential version of the report and a public version of the report which redacts NS Power's confidential information.

Within three (3**)** Business Days of the filing of the final report with the Board, NS Power shall file a request with the Board for any information in the final report which NS Power wants held in confidence together with the reasons for the request.

Significant FAM Changes

Where, in the absence of a General Rate Application, an increase for any customer class of more than 10 percent compared with the rate payable in the prior year is caused by the application of the FAM procedures, the Board should consider appropriate measures to assist customers.

The Board will monitor the operation of the FAM closely and reserves the right to intervene in any circumstance where it believes an increase to a customer class is not acceptable or in the public interest and take such steps as it considers appropriate to assist such customers including deferring a part of the increase for collection in a future time period.

6.0 STAKEHOLDER REVIEW AND DISCOVERY

Monthly, quarterly and annual non-confidential and confidential reporting will be available for access and viewing. NS Power confidential reporting will be available electronically or in a confidential data room. A Confidentiality Agreement or undertaking will be required to access confidential information. NS Power's confidential electronic data cart will be maintained on a rolling basis with complete information related to transactions in place and accessible within 45 days of the transaction date. For the Base Cost of Fuel forecast update, all support documentation available will be provided (e.g. recommendations, evaluations, and confirmations).

The reporting templates identified in Appendix "C" and the standard fuel-related forecast templates for the Base Cost of Fuel will be accessible to stakeholders in an electronic format. The Board's secure document site will be utilized to access the monthly, quarterly and annual reports. Transactional information, copyright information, and all forecasting information not included in the reports will be available in NS Power's confidential electronic data cart.

Appendix "D" provides the generic regulatory calendar and hearing dates for the FAM processes which will be undertaken each year during the 2023-2024 GRA Period.

In each hearing to adjust the Base Cost of Fuel, or to approve the AA and BA in a non-Base Cost of Fuel setting year, stakeholders shall have the opportunity (and access to information) to challenge NS Power's fuel costs, the implementation of the methodology, and the contents of the succeeding year's forecast, consistent with their current rights in General Rate Cases. Notwithstanding the foregoing, stakeholders shall not be precluded from reviewing prior years' actual results versus prior forecasts in addressing the propriety of the succeeding year's forecast.

7.0 DEFINITIONS

Actual Adjustment (Refund)/Recovery Rate – AA: is an Actual Adjustment which consists of the difference between fuel-related costs recovered from a rate class through the application of the base rates and the actual fuel costs incurred and allocated to the rate class as of the end of September of the prior calendar year. The actual fuel costs will include the same cost items as the Base Cost of Fuel.

Actual Amount 'AA' Received/(Refunded) current period: the amount of (over)/under recovery of fuel costs collected or refunded in the current period, a product of the 'Actual Adjustment (Refund)/recovery Rate – AA' and the 'Actual Sales' for the current period.

Annual Weighted Average Cost of Capital (WACC): A calculation of a company's cost of capital in which each category of capital is proportionately weighted All capital sources - common stock, preferred stock (if applicable), and debt are included in the calculation.

Audit: An independent, objective examination and evaluation of the accounts and records of or the performance and cost effectiveness of an organization.

Balance: The net of debits and credits for an account at the end of a reporting period.

Balance Adjustment (Refund)/Recovery Rate – BA: is a Balance Adjustment, expressed in cents per kWh, which accounts for any (over)/under recovery collections which have occurred as a result of prior adjustments.

Balance Amount Received/(Refund) current period: the amount of remaining (over)/under recovery collections which have occurred as a result of prior adjustments, that are collected or refunded in the current period, a product of the 'Balance Adjustment (Refund)/Recovery Rate – BA' and the 'Actual Sales' for the current period.

Base Cost of Fuel Component – B: is the Base Cost of Fuel per kWh (¢/kWh) included in NS Power's "rates".

Business Day: is any day other than a Saturday, Sunday, or municipal, provincial or federal statutory holiday in Halifax, Nova Scotia.

Compliance Filing: A report filed by NS Power with the Board subsequent to a Decision. This report includes financial, cost of service, rates, and other information that may require revision from NS Power's original application in order to comply with the Board's Decision.

Estimated Sales for the Current Year: is a forecast of projected electricity sales for customer groups that are subject to the FAM Formula.

Export Sales Costs: are the costs to generate power to serve sales outside of NS Power's service territory of Nova Scotia.

Export Sales Recoveries: are the proceeds or revenues received from the sale of export power.

Export Sales Generation: are the MWh's generated to serve customers outside of Nova Scotia.

Fuel Costs Recovered Through Base Cost of Fuel Component: the fuel costs recovered through the Base Cost of Fuel component is the product of the current period's sales in GWh multiplied by the Base Cost of Fuel, then divided by 100.

Fuel for Generation: the fuel costs incurred with consumption of a commodity for the purpose of generating power.

General Rate Application: An application filed by NS Power with the Board requesting general changes to the rates and tariffs it applies to its customer classes. The 2023-2024

GRA Period refers to the period beginning January 1, 2023 and ending December 31, 2024 or to such time as determined by the NSUARB.

GRLF Revenue: The revenue received from Generation Replacement and Load Following (GRLF) Rate billings.

GRLF Administration Costs: That portion of GRLF Revenue represented by the $5/MWh adder of that tariff.

GRLF Requirements: The energy requirement of the Generation and Load Following (GRLF) Rate, including losses.

Net Generation by Fuel Type: a financial report produced out of Oracle showing the net generation, expressed in MWh, by facility and fuel type.

NSPEMI: NS Power Energy Marketing Inc., a wholly owned subsidiary of NS Power, formed to facilitate fuel and purchased power transactions in the United States.

(Over)/Under Recovery Amount: variance (over/under) between actual fuel costs and those recovered through the Base Cost of Fuel component included in rates.

Prior Year's AA (Refund)/Recovery Ending Balance: the balance remaining at the end of the period, on the previous year's 'Actual Adjustment'. The residual balance at the end of September will be recovered/refunded to the customer through the 'BA: (Refund)/Recovery Rate' in the subsequent years.

Prior Year's 'AA' and 'BA' (Refund)/Recovery Ending Balance: the balance remaining at the end of the period, on the previous year's 'Actual Adjustment' and the 'Balance Adjustment'. The residual balance at the end of September will be recovered/refunded to the customer through the 'BA: (Refund)/Recovery Rate' in the subsequent years.

Prior Year's Accumulated Interest: the interest accumulated over the previous year on the balance in the 'Balancing Account' to be recovered/refunded to or by the customer during the current year through the 'BA: (Refund)/Recovery Rate'.

Prior Years (Refund)/Recovery Amount Beginning Balance: the balance remaining at the beginning of the period, on the previous year's 'Actual Adjustment'.

Total Balance Account Beginning Balance: the balance remaining at the beginning of the period, on the previous year's 'Actual Adjustment' and the 'Balance Adjustment'.

Total Purchased Power: the total cost of import, IPP and wind power purchases during the period used to serve the domestic load requirements.

Total System Requirements: the total sales and system losses expressed as GWh for domestic and export activity.

Two Part Real Time Pricing Decremental and Incremental Charges: The credits paid to Extra Large Industrial Two-Part Real Time Pricing (ELI 2P-RTP) customers associated with decremental load (below the customer baseline load, CBL) or the additional charges to ELI 2P-RTP customers associated with load above the CBL.

Water Royalties: Amounts paid to government associated with environmental aspects of operating hydroelectric systems.

NON-CONFIDENTIAL

Request DR-8:

How does NS Power assure that the costs maintained according to the Chart of Accounts are integrated and accurately reflected in COSS model?

Response DR-8:

The Chart of Accounts (COA) is the listing of accounts in the Company's General Ledger (GL) accounting system. Logical numbering schemes identify the account types and subcategories. Each General Ledger account is assigned a unique multi-digit number. The COA functions as the record-keeping authority for all financial transactions.

NS Power uses a Subledger for detailed capital and operating projects. Detailed transactions for Project, Organization, Expense Type, and Task (POET) categories will be captured in the Subledger, then imported and posted in summary to the General Ledger.

NS Power has a review and approval process to have new accounts created withing the COA to ensure that those accounts are appropriately mapped within the GL. The Company utilizes a combination of the COA and POET data to produce its test year financial forecast and schedules that are utilized to produce the COSS.

NON-CONFIDENTIAL

Request DR-1:

Tabulated hourly load profile for the day of the winter peak demand in 2030 – net of all wind and solar generation (i.e., including behind-the-meter)- by residential; commercial; industrial; and other customer categories. In addition, please also include hourly generation profile of: wind generation; and all solar generation (i.e., including behind-the-meter).

Response DR-1:

The hourly load profile of the winter peak demand day in 2030, and the wind and solar generation during that day, are provided in Attachment 1. The data provided is from the 2022 Evergreen IRP scenario CE1-E1-R2. An estimate of the behind-the-meter generation is provided by multiplying the forecast installed capacity in the load forecast by the hourly capacity factor of the modelled grid connected solar.

Forecasts for peak are not produced at the class level. The 2022 Load Forecast report, which is the forecast corresponding to the 2022 Evergreen data provided in Attachment 1, provides a breakdown of major contributors to the forecast peak as outlined in the table below:

	Modeled Peak (MW)	Res Heat (MW)	EV (MW)	DR (MW)	C&I Elect. (MW)	Large Cust. (MW)	DSM (MW)	Firm Peak (MW)	Inter. Cust. (MW)	System Peak (MW)
2030	1,977	95	64	-38	152	111	-119	2,243	152	2,434

The "Modeled Peak" category is comprised of all the classes besides Large General, Large Industrial, and Municipal (these are in the "Large Cust" category), as well as all interruptible customers (these are in the "Inter Cust" category).

The system peak value (2,434 MW) shown above varies from the peak shown in Attachment 1 (2,474 MW) for two reasons:

- The load forecast assumes a fixed on-peak load for PHP while in Plexos PHP's load is allowed to vary within a defined set of parameters.

- In the 2022 Evergreen IRP, E3 provided an hourly EV load forecast which superseded using monthly energy and demand numbers to approximate the impact of EVs. This was done to improve the analysis but did lead to instances where the modelled load varied slightly from the load forecast.

All values presented are from the 2022 Evergreen IRP scenario CE1-E1-R2.
The BTM Solar Gen Estimate is based on an installed capacity of 170 MW in 2030 from the 2022 Load Forecast

		Datetime	Load (MW)	Wind Gen (MW)	Solar Gen (MW)	BTM Solar Gen Estimate (MW)
Day of winter peak in 2030:	1/8/2030	1/8/2030 1:00	1,907	962	0	0
Total load (GWh)	51.65	1/8/2030 2:00	1,924	980	0	0
		1/8/2030 3:00	1,922	977	0	0
		1/8/2030 4:00	1,923	978	0	0
		1/8/2030 5:00	1,929	980	0	0
		1/8/2030 6:00	1,862	720	0	0
		1/8/2030 7:00	1,970	474	0	0
		1/8/2030 8:00	2,035	546	0	0
		1/8/2030 9:00	2,168	479	7	6
		1/8/2030 10:00	2,236	354	117	99
		1/8/2030 11:00	2,258	329	53	44
		1/8/2030 12:00	2,263	329	91	77
		1/8/2030 13:00	2,248	506	76	62
		1/8/2030 14:00	2,213	629	105	87
		1/8/2030 15:00	2,195	776	131	109
		1/8/2030 16:00	2,219	696	46	38
		1/8/2030 17:00	2,362	868	0	0
		1/8/2030 18:00	2,475	980	0	0
		1/8/2030 19:00	2,441	980	0	0
		1/8/2030 20:00	2,408	825	0	0
		1/8/2030 21:00	2,382	980	0	0
		1/8/2030 22:00	2,301	980	0	0
		1/8/2030 23:00	2,125	980	0	0
		1/9/2030	1,880	980	0	0

NON-CONFIDENTIAL

Request DR-2:

Tabulated hourly load profile for the summer day with the lowest diurnal wind power generation in 2030 – net of all wind and of solar generation (i.e., including behind-the-meter) - by residential; commercial; industrial; and other customer categories. In addition, please also include hourly generation profile of: wind generation; and all solar generation (i.e., including behind-the-meter).

Response DR-2:

Class level hourly profiles are not developed when creating the load forecast.

The hourly load profile of the summer day with lowest diurnal wind power generation in 2030 and the wind and solar generation during that day are provided in Attachment 1. The data provided is from the 2022 Evergreen IRP scenario CE1-E1-R2. An estimate of the behind-the-meter generation is provide by multiplying the forecast installed capacity in the load forecast by the hourly capacity factor of the modelled grid connected solar.

All values presented are from the 2022 Evergreen IRP scenario CE1-E1-R2.
The BTM Solar Gen Estimate is based on an installed capacity of 170 MW in 2030 from the 2022 Load Forecast

Day of lowest diurnal power generation	7/14/2030	Datetime	Load (MW)	Wind Gen (MW)	Solar Gen (MW)	BTM Solar Gen Estimate (MW)	
Total load (GWh)	24.18	7/14/2030 1:00	911	31	0	0	
		7/14/2030 2:00	883	14	0	0	
		7/14/2030 3:00	869	32	0	0	
		7/14/2030 4:00	880	53	0	0	
		7/14/2030 5:00	883	41	0	0	
		7/14/2030 6:00	881	11	13	11	
		7/14/2030 7:00	872	60	3	3	
		7/14/2030 8:00	908	39	32	27	
		7/14/2030 9:00	973	4	102	86	
		7/14/2030 10:00	1001	11	65	55	
		7/14/2030 11:00	1058	4	27	23	
		7/14/2030 12:00	1109	4	38	31	
		7/14/2030 13:00	1121	4	48	39	
		7/14/2030 14:00	1113	7	27	22	
		7/14/2030 15:00	1099	10	8	5	
		7/14/2030 16:00	1098	15	16	12	
		7/14/2030 17:00	1130	16	28	23	
		7/14/2030 18:00	1149	12	6	5	
		7/14/2030 19:00	1089	13	1	1	
		7/14/2030 20:00	1062	7	0	0	
		7/14/2030 21:00	1046	9	0	0	
		7/14/2030 22:00	1058	8	0	0	
		7/14/2030 23:00	1015	7	0	0	
		7/15/2030	976	32	0	0	

Cost of Service Study

Technical Conference

January 18, 2024

Nova Scotia POWER
An Emera Company

Agenda

- Introduction of Elenchus as an expert subject to the duties of an expert
- Preliminary Discussion
  - Board Directive – GRA
  - Meeting Objectives
- Consultant – Overview of Electric Utility Cost of Service Processes

Board Directive - GRA

The 2022-2024 GRA Settlement Agreement provided as follows regarding the Line Loss Study and COSS:

> **NS Power must file a Cost of Service Study and a Line Loss Study prior to filing its next GRA or December 31, 2025, whichever is sooner**. NS Power will provide for stakeholder engagement in the scoping and review of initial results, which will include consideration of bundled and unbundled services in an integrated manner as referenced in the Board's decision at para. [42] in 2021 NSUARB 126 [2021 BUTU proceeding], prior to filing the final Studies. Board approval for the use of those Studies should occur as a part of the next GRA proceeding. Costs associated with the production, stakeholder engagement, and filing of these Studies may be deferred by NS Power and, subject to Board approval, recovered through rates subsequent to NS Power's next general rate application.

The NSUARB's 2022-2024 GRA Order directed NS Power to **file semi-annual progress reports about the stakeholder engagement process for the Cost of Service and Line Loss Studies, starting January 31, 2024**; [as outlined in para. 367 of the GRA Decision]

Board Directive - GRA

The GRA Decision provided as follows:

> [361] In this proceeding, several concerns were raised about NS Power's cost of service methodologies applied in this GRA. These concerns included the use of the minimum system study for the classification of distribution costs, the cost classification and allocation for generation and transmission using a base load power methodology inherent in the Load Factor/3 Coincident Peak (LF/3CP) method, and the subfunctionalization of distribution costs between the primary and secondary distribution systems.
>
> //
>
> [367] **The Board concurs that the COSS and Line Loss Study should be updated to reflect a number of developments impacting NS Power's system since the 2013 COSS, including the greater integration of wind and other renewables, the addition of gas fired generation, the phasing-out of coal fired generation, the use of grid-scale battery storage, the increased reliance on purchased power agreements, and the integration of bundled and unbundled services, among other issues. All other cost allocation methodologies should be reviewed for their continued relevance and application.** The Board concludes that this provision of the GRA Settlement Agreement is appropriate and directs the process and timeline as agreed to by the parties. **The Board directs that semi-annual progress reports must be filed with the Board starting January 31, 2024.**

Meeting Objectives

- Introduce experts
- Develop a shared understanding of industry practices re: cost of service
- Share information
- Collaborate with intent to develop initial issues list and identify topics requiring further examination
- Provide general overview of timeline for COSS as set out in letter dated December 14, 2023
- Sessions will take place on a without prejudice basis to encourage open discussion and sessions will not be recorded without the express consent of all parties

Review of NS Power's Cost Allocation Methodology Stakeholder Session #1
Jan 18, 10:00 AM

Elenchus Research Associates, Inc.
John Todd and Andrew Blair

Agenda

1. **Introduction and Project Description**
2. Generic Background on Cost Allocation Methodologies
3. NS Power's Existing COSS Methodology
4. Effect of Transitional and Technological Changes on COSS
5. Survey
6. Next Steps

Elenchus Research Associates Inc. ("Elenchus")

- John Todd, President
  - Founded 1980
- Andrew Blair joined Elenchus in 2016
  - Transferred to Power Advisory in 2023
- Elenchus has conducted Cost of Service/Cost Allocation and Rate Design (CARD) reviews for regulators (BCUC, Manitoba PUB, OEB, and Régie) and utilities (including NB Power, ENMAX, and numerous Ontario electric & natural gas utilities)
  - Elenchus (Andrew) has assisted E1 with it Rate Impact and Bill Analysis since its inception which involved integration with NSP's COS model.
- Elenchus and Power Advisory formed a strategic alliance in 2021

www.elenchus.ca

elenchus

Elenchus Approach to the Review

- Facilitate NS Power's Stakeholder Process - technical sessions, with goal being to:
  - Assist in clarifying and understanding the concerns and views of all parties
  - Distinguish between interest-based and principle-based positions (both are valid and need to be understood)
  - Maintain clear distinction between (i) cost allocation and (ii) rate design issues
  - Identify areas of agreement and disagreement; clarify reasons for disagreement
- Review NS Power's Cost Allocation Methodology
  - Examine Functionalization, Classification and Allocation Methodologies
  - Review NS Power's current methodologies in the context of electricity sector evolution (Decentralization, Decarbonization, Democratization, and Digitization – 4D's)
- Elenchus to survey Canadian and US utilities' practices
- Elenchus may prepare evidence in this proceeding on the issues discussed for filing with NSUARB

Purpose of the January 18th Session (Kick-off)

- Canvass stakeholders to determine the parts of NS Power's COSS methodology that need to be explained in greater detail in future tech sessions. Future technical sessions will assist stakeholders in understanding NS Power's model
- Canvass stakeholders to identify potential areas requiring review in recognition of developments impacting NS Power's system since the 2013 COSS:
  - Conceptually, what is the intent of each proposed change
  - Further analysis will be undertaken to determine:
    - How the proposed change could be implemented
    - The implications of the proposed changes on the allocated costs
- Identify issues to focus on and a timeline for future sessions

Agenda

1. Introduction and Project Description
2. **Generic Background on Cost Allocation Methodologies**
3. NS Power's Existing COSS Methodology
4. Effect of Transitional and Technological Changes on COSS
5. Survey
6. Next Steps

Reference Documents

- As baseline, NARUC, Electric Utility Cost Allocation Manual, January 1992. What has changed in the last 30 years? Comments invited.
- Cost Allocation Modernization references, such as:
  - Electric Cost Allocation for a New Era, Jim Lazar, Paul Chernick and William Marcus (January 2020)
  - Additional stakeholder suggestions?
- Previous Nova Scotia Power evidence and decisions
  - Nova Scotia Power, Cost of Service Study Methodology, January 2022 (GRA Filing), pp. 87 – 96
  - NSUARB Decision, M10431 (Dec 2023)
  - 1993 (M06144) and 2013 (M04972) proceedings
- Other previous COSS discussions and submissions
  - Maritime Link Project, 10 deferred COSS projects in years 2014 - 1016

Cost Allocation Methodologies – Conceptual Overview

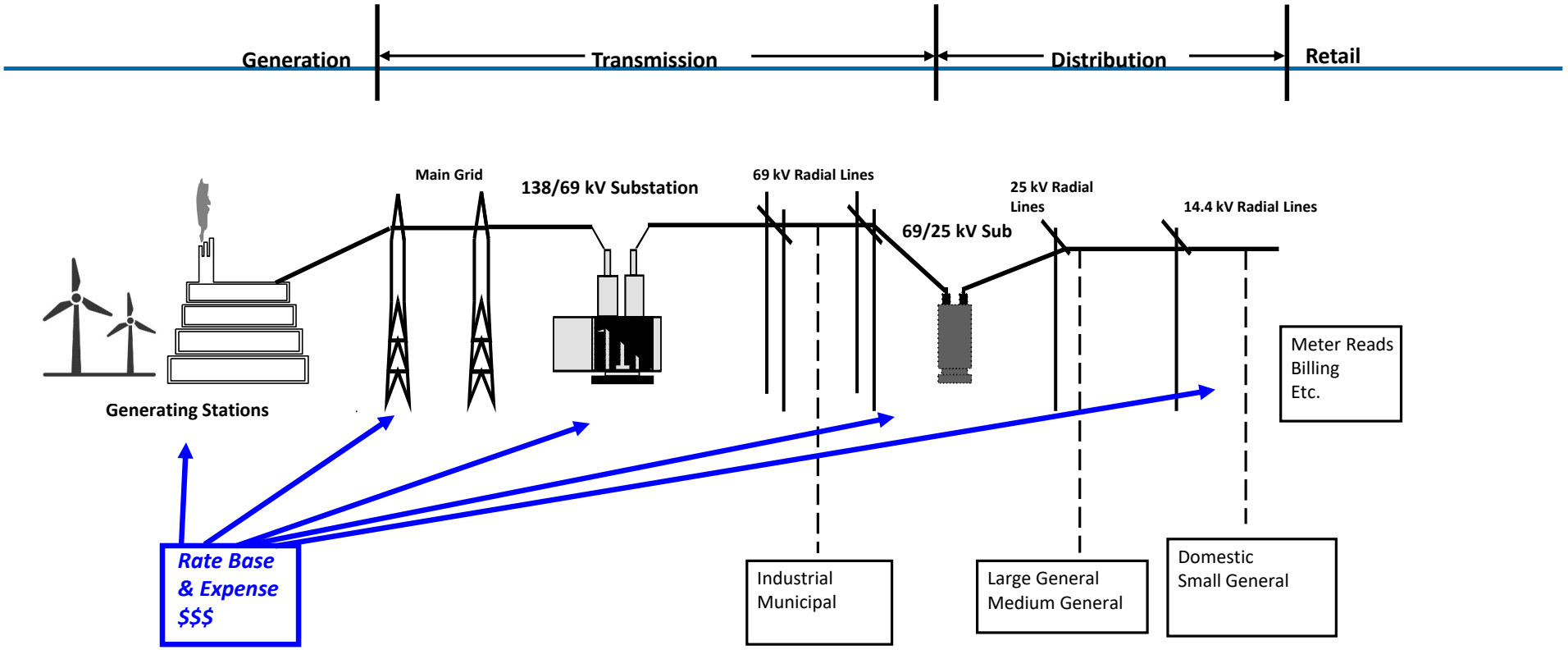
- Directly allocated costs - Exclusive use by class (rare)
- Shared Utility Assets and Expenses
  - We all benefit from sharing
  - Electrons flow through common infrastructure
- Cost Causality is main criterion
  - Mostly apportioned based on relative "use"
  - E.g., meters measure energy (kWh) use
- Goal is Fair and Reasonable Rates
  - Causal costs => allocated costs =>Target/ideal rates
  - Rate design is a subsequent step (i.e., cost allocation is technical analysis of causal costs; rate design uses policy considerations, where appropriate, to deviate from rates based strictly on causal costs)

Cost Allocation Methodology – Three Basic Steps

- Functionalization:
  - Generation, Transmission, Distribution, Retail
- Categorization or classification:
  - Energy, Demand, Customer
- Allocation:
  - Use Cost Drivers: kWh, kW, Customer Count (Weighted)

NOTE: Fairness Principles generally interpreted as cost recovery by class based on fully allocated embedded costs.

Actual rates (and cost recovery) may deviate from causal cost recovery based on identified & measurable policy considerations (competitive issues, conservation, low-income, clean energy incentives, etc.). These are rate design issues, as distinct from cost allocation issues.



Electricity System Schematic

Functionalization (Standard for Electric Utilities)

- Group similar assets and expenses
  - Generation Stations with many sub-functions
  - Power Purchases, Fuel, DSM and Storage
  - Transmission Lines: differentiated by voltage, towers, wires, etc.
  - Distribution Lines, feeders by voltage, customer connections, meters, etc. (each by type with different costs)
- Admin and General (A&G)

Example of Functionalization

- Generation
  - NS Power Generation: coal; natural gas; hydro
  - Non-dispatchable renewable generation: wind; solar
  - Power purchases
  - DSM
- Transmission
  - Power Customers (69 kV)
  - Connects generation to distribution & large users
- Distribution
  - Domestic, business below 750 V
- Retail

Note that the exact definitions vary across jurisdictions and utilities

Classification

- Demand-related costs
  - Facilities determine **CAPACITY** of energy flows
  - Higher capacity requires larger "pipe"
- Energy-related costs
  - More energy consumed means more fuel to produce
- Customer-related costs
  - More customers require more meters and customer service agents; differs by class
- Questions on definitions: capacity/demand (MW) versus energy (kWh)

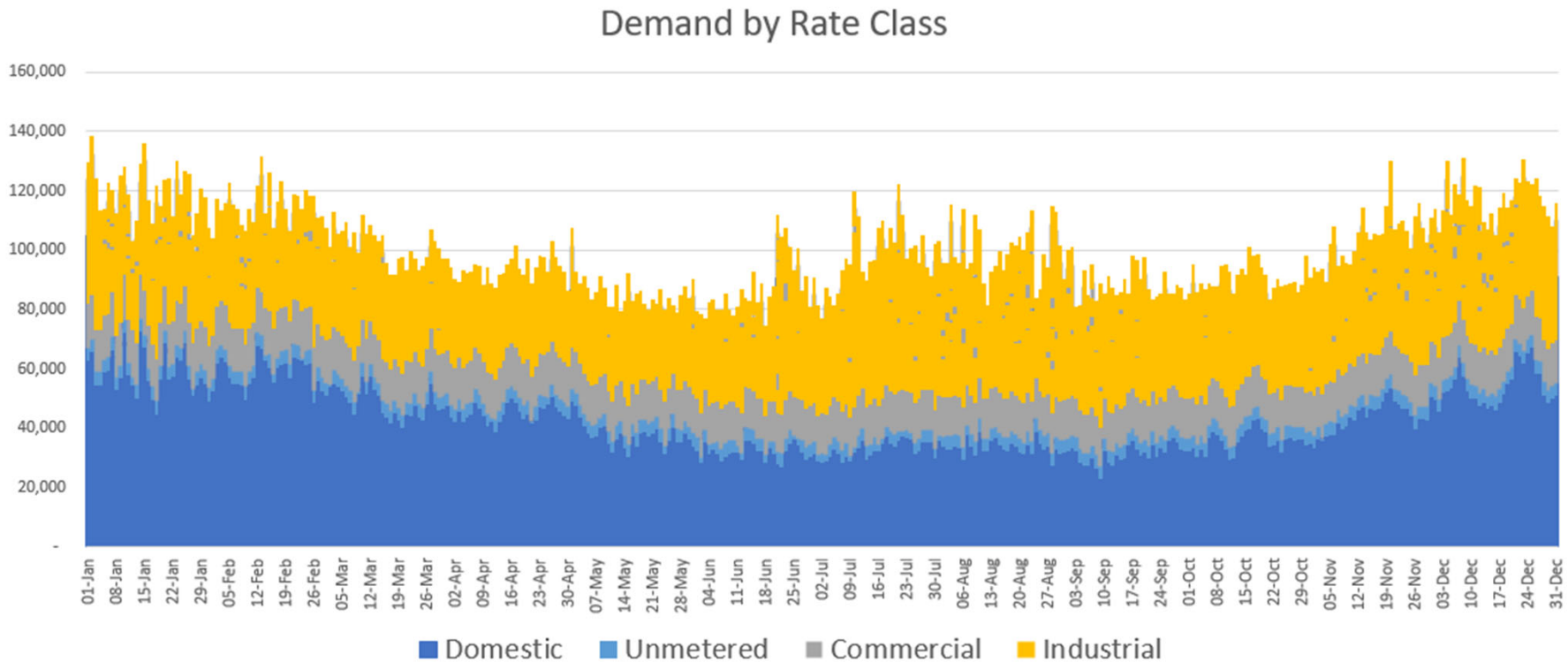
Allocation

- Costs allocated to customer classes (cost drivers correspond to cost classifications)
  - Primary Allocators (costs shared by proportionate use)
    - kWh (energy including losses)
    - kW (demand including losses)
    - # of customers
    - Weighted # of customers
    - Direct Assignment (Streetlights)
  - Produces total allocated costs by customer class (causal costs)
  - Compare to class revenue => revenue/cost ratios

Cost Allocation Results

- Revenue to cost ratios (R/Cs) by customer class
  - Target R/C is 1.00
  - Above 1.00 – revenues higher than costs
  - Below 1.00 – revenues lower than costs
  - But allocation is not precise
  - Hence, goal is typically R/C in a **range = 0.95 to 1.05**
- Using this range
  - Reduces volatility in rates due to anomalous fluctuation
  - Allows for adjusting without "rate shock"
- Adjusting R/Cs is the starting step for **Rate Design**
- Additional step is monthly/demand/energy charges and policy-based rates (e.g., TOU based on some definition of marginal costs)

Demand, Energy & Peak Demand – Cost Causality (Illustrative hourly demand)



elenchus

Generally Accepted Rate Making Principles

- Bonbright Principles (1961 and 1988)
  - Regulators restructure them – but generally cover the same concepts with adaptation to capture jurisdiction-specific legislated policy requirements (e.g., clean energy, preferential rates, etc.)
  - Aka: Cost Allocation and Rate Design (CARD) principles

Bonbright's Ratemaking Principles

Revenue-related Attributes:

1. Effectiveness in yielding the utility's total revenue requirement, under the fair return standard, without socially undesirable expansion of rate base or socially undesirable level of product quality or safety.
2. Revenue stability and predictability with a minimum of unexpected changes seriously adverse to utility companies.
3. Stability and predictability of the rates themselves, with a minimum of unexpected changes seriously adverse to the ratepayers, and with a sense of historical continuity.

Cost-related Attributes:

4. Static efficiency of the use of rate classes and rate blocks in discouraging wasteful use of the service, while promoting all justified types and amounts of use.
5. Reflections of all of the present and future private and social costs and benefits occasioned by the service's provision.
6. Fairness of the specific rates in the apportionment of total cost of service among the different ratepayers, so as to avoid arbitrariness and capriciousness, and to attain equity.
7. Avoidance of undue discrimination in rate relationships.
8. Dynamic efficiency in promoting innovation and responding economically to changing demand and supply patterns.

Practical-related Attributes

9. The related, practical attributes of simplicity, certainty, convenience of payment, economy in collection, understandability, public acceptability, and feasibility of application.
10. Freedom from controversies as to proper interpretation.

See: *The Principles of Public Utility Rates*, James C. Bonbright, Albert L. Danielsen, David R. Kamerschen (Second Edition, 1988) Public Utilities Reports, pages 383-4.

Agenda

1. Introduction and Project Description
2. Generic Background on Cost Allocation Methodologies
3. **NS Power's Existing COSS Methodology**
4. Effect of Transitional and Technological Changes on COSS
5. Survey
6. Next Steps

Functionalization

- Approach very standardized in the electricity industry
- NS Power's functions are consistent with industry standard definitions
- Main functions include generation, transmission, distribution and retail
- Costs by function are based on the utility's system of accounts
  - All costs incurred by NS Power are assigned to a function
- NS Power use of sub-functions also standard
- Some allocation between functions is required (ex. transmission vs. distribution substation costs)

Illustrative List of Sub-Functions

1. Generation	2. Transmission	3. Distribution	4. Retail
Steam	High Voltage	Land	Customer Experience and Solutions
Hydro	Extra High Voltage	Easements & Survey	Call Centre
Wind		Other	Billing Services & Payments
LM6000		Substations	Metering Services
Gas Turbine		Poles & Fixtures	Meter Data Services
Purchases		Overhead Lines	Meter Services – Field
		Underground Lines	Revenues Ops Admin
		Line Transformers	
		Services	
		Meters	
		Street Lighting	

Classification / Allocation Methods

- Generation costs present conceptual challenges
  - How to separate capacity related from demand related capital (there is no single, valid method)
  - Generation assets provide both capacity and energy
- Transmission is essentially capacity related (coincident peak allocation)
- Distribution also capacity (non-coincident peak) but there are practical definitional challenges
- Customer costs are largely (weighted) customer-related allocations (i.e., not caused by demand or energy – usual a version of customer count)

Generation Classification Methodologies

- Variable costs (per MWh) are energy related
  - Such as fuel costs
- How to classify capital and other fixed costs?
  - NARUC Manual (January 1992) identifies many acceptable options to use for the demand/energy split
    - Peak Demand Methods (five methods identified)
    - Energy Weighting Methods (four methods identified)
    - Time Differentiated Embedded Cost of Service Methods (four methods identified)
- Implications of modernization? Do the 4D's (Decentralization Decarbonization, Democratization, Digitization) impact on Cost Allocation (CA) or Rate Design (RD) – i.e., are causal cost different or just policy drivers?

Generation Classification Methodologies (2)

- Peak Demand Methods (five methods identified)
  - Single Coincident Peak (1-CP)
  - Summer and Winter Peak (Average of 3 CPs in each season)
  - Sum of 12 Monthly Coincident Peaks (12-CP)
  - Multiple Coincident Peak
  - All Peak Hours
- Reflects a view that generation is built to meet the capacity requirements (i.e., caused only by demand, not energy requirements)

Generation Classification Methodologies (3)

- Energy Weighting Methods
  - Average and Excess
  - Equivalent Peaker
  - Base and Peak
  - Judgmental Energy Weightings
- Reflects view that generation is built to meet both energy and demand drivers
  - Widely accepted; must meet annual MWh energy needs as well as peak MW demand
  - Should demand/energy split reflect supply mix or customer load profile?

Generation Classification Methodologies (4)

- Time Differentiated Embedded Cost of Service Methods
  - Production Stacking
  - Base-Intermediate-Peak (BIP)
  - Loss of Load Probability (LOLP) Production Cost
  - Probability of Dispatch
- These methods are not commonly used
  - Can be complex
  - But development of AMI (improved data and increased transparency) makes increased granularity feasible
  - Can be unstable if supply mix is changing

NS Power's Generation Method

- **NS Power uses the System Coincident Load Factor** to determine energy-related and capacity-related generation costs, though there are differences among types of generation
- Energy-related generation costs:
  - Allocated based on energy (MWh)
- Demand-related generation costs illustrative possibilities include:
  - *Generation and Transmission costs* Allocated on the basis of 3 Coincident Peaks, reflecting: *three winter month peaks of January, February and December.*
  - *Distribution Costs allocated on the basis of annual class peaks which are typically non-coincidental with the system peak.*

Transmission Classification / Allocation Methodologies

- Transmission is treated as an extension of generation and is classified to energy and demand based on the system load factor
- Illustrative example:
  - Allocation same as generation, and
  - Classifying 100% demand-related
- Implications of modernization? Do the 4D's impact on CA or RD – i.e., are causal cost different or just policy drivers?

Distribution Classification / Allocation Methodologies

- NS Power is consistent with standard practices
- Typical approach across utilities:
  - Use Minimum System Method for classification of lines and transformers
  - Multiple-CP for sub-transmission and NCP allocation of distribution demand related costs
  - Weighted number of customers for customer related costs
- Implications of modernization? Do the 4D's impact on CA or RD – i.e., are causal cost different or just policy drivers?

Above-the-Line / Below-the-Line

- In NS Power's methodology, costs are allocated Above-the-Line after determining the cost responsibility of Below-the-Line customers
- This review will focus on Above-the-Line rate classes

Cost Allocation Issues to be Addressed

- Stakeholders to provide input
- Elenchus to develop an issues list for this process, by considering stakeholder input and identifying:
  - Issues where there is consensus
  - Issues requiring further analysis/discussion
  - Issues where there is agreement to disagree (differences to be identified)

Agenda

1. Introduction and Project Description
2. Generic Background on Cost Allocation Methodologies
3. NS Power's Existing COSS Methodology
4. **Effect of Transitional and Technological Changes on COSS**
5. Survey
6. Next Steps

Sector Evolution

- Sector evolution has been characterized as the **"Four Ds"**
  - Decentralization
  - Decarbonization
  - Democratization
  - Digitization
- The commonly identified specific drivers of change include:
  - Increased electrification of transportation and space heating
  - Increasing non-dispatchable renewable generation
  - DSM and Demand Response
  - Storage

Methodologies in the Future

Stakeholder views need to be considered.

- Are NS Power's current methodologies appropriate as the sector evolves?
  - Please identify issues that need to be reconsidered
- Review methodological precedents in other jurisdictions that consider transitional and technological changes
  - Please provide precedents that are worthy of consideration in this process
- Methodologies that are appropriate both in NS Power's current state and in the future
  - What elements of NS Power's COSS are not affected by sector evolution?
  - What issues should be addressed in the context of rate design?

2022-2024 GRA (M10431) para 367

- Stakeholder comments invited on the COS implications of:
  - Including the greater integration of wind and other renewables
  - The addition of gas fired generation
  - The phasing-out of coal fired generation
  - The use of grid-scale battery storage
  - The increased reliance on purchased power agreements
  - The integration of bundled and unbundled services, among other issues

Agenda

1. Introduction and Project Description
2. Generic Background on Cost Allocation Methodologies
3. NS Power's Existing COSS Methodology
4. Effect of Transitional and Technological Changes on COSS
5. **Survey**
6. Next Steps

Elenchus Undertook a Survey in 2022

- Utilities surveyed (any requests for additions/updates?):
  - ATCO Electric
  - BC Hydro
  - Newfoundland Power
  - NB Power
  - Nova Scotia Power
  - Hydro Quebec
  - Hydro One
  - Manitoba Hydro
  - SaskPower
  - Georgia Power
  - Montana-Dakota Utilities

Generation Functionalization Survey Results

Table 1: Functionalization methodology used for generation assets and expenses		
Number of Functions	Number of Utilities	Percent of Utilities
8-10	2	18
6-7	1*	9
4-5	1	9
2-3	5	45
NA	2	18
Totals	11	

*Nova Scotia Power placement

Transmission Functionalization Survey Results

Table 2: Functionalization methodology used for transmission assets and expenses		
Number of Functions	Number of Utilities	Percent of Utilities
6-8	2	18
3-5	2	18
2	2*	18
1	4	36
NA	1	9
Totals	**11**	

*Nova Scotia Power placement

Distribution Functionalization Survey Results

Table 3: Functionalization methodology used for distribution assets and expenses		
Number of Functions	Number of Utilities	Percent of Utilities
10-11	3*	27
8-9	2	18
6-7	2	18
4-5	4	36
Totals	**11**	

*Nova Scotia Power placement

Retail Functionalization Survey Results

Table 4: Functionalization methodology used for Retail expenses		
Number of Functions	Number of Utilities	Percent of Utilities
6	1	9
5	1*	9
4	4	36
3	3	27
2	2	18
Totals	**11**	

*Nova Scotia Power placement

Generation Classification

Table 5: Classification methodology used for generation assets and expenses		
Methodology	Number of Utilities	Percent of Utilities
Set by regulation	1	9
System Load Factor	5*	45
100% demand	1	9
3 CP Peak and Average	1	9
Fixed and Variable	1	9
NA	2	18
Totals	11	

*Nova Scotia Power placement

Baseload Generation Classification to Demand

Table 6: Classification of Base Load Steam generation costs to demand		
Percent Classified as demand	Number of Utilities	Percent of Utilities
90 - 100	3	27
70 - 90	0	0
50 - 70	0	0
35 - 50	3*	27
Below 35	1	9
NA	4	35
Totals	11	

*Nova Scotia Power placement

Transmission Classification to Demand

Table 7: Classification of transmission costs to demand		
Percent Classified as demand	Number of Utilities	Percent of Utilities
90 - 100	7	63
70 - 90	0	0
50 - 70	0	0
35 - 50	2*	18
NA	2	18
Totals	11	

*Nova Scotia Power placement

Distribution Classification Methods

Table 8: Classification Method for Distribution Lines and Transformers		
Method	Number of Utilities	Percent of Utilities
Minimum System	4	36
Zero Intercept	0	0
Both Minimum and Zero Intercept	3	27
Other	3*	27
Judgment 50/50	1	9
Totals	**11**	

*Nova Scotia Power placement

Agenda

1. Introduction and Project Description
2. Generic Background on Cost Allocation Methodologies
3. NS Power's Existing COSS Methodology
4. Effect of Transitional and Technological Changes on COSS
5. Survey
6. **Next Steps**

Recap, Questions and Comments

Recap the identified issues:

- Review the aspects of the COSS methodology that need to be explained in future sessions
- Review the issues to focus on in future sessions
- What other matters need to be addressed in future sessions?
- Please provide your closing comments on today's process and how the process can be improved for future sessions.

Your further thoughts will be appreciated.

Please email comments related to the first session by January 26, 2024:

michael.willett@nspower.ca

mollie.morris@nspower.ca

Questions/Discussion

Evergreen IRP and Path to 2030

February 22, 2024

Nova Scotia POWER
An Emera Company

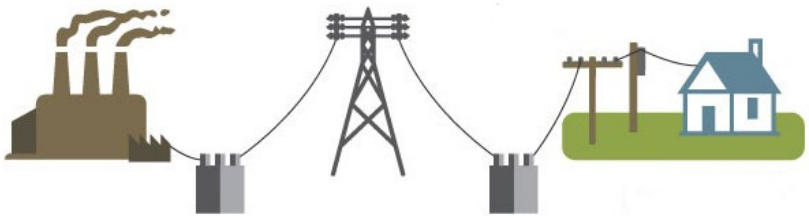
System Planning

System Planning and Grid Integration at NS Power:

- Resource Planning
- Transmission Planning
- Distribution Planning
- Transmission and Distribution Engineering

Long Term Resource Planning

- 1 to 25 year planning horizon.
- Used for Integrated Resource Plans (IRP), 10 Year System Outlook, Northeast Power Coordinating Council (NPCC) regional studies, and generation and transmission investment decisions.



Source: Adapted from National Energy Education Development Project (public domain)

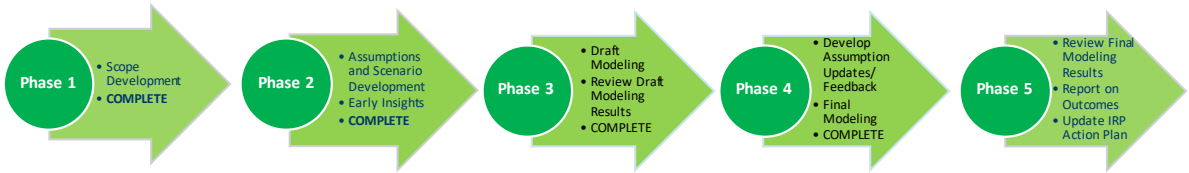
Integrated Resource Plan (IRP)

- An IRP is a long term system planning study focused on evaluating resource adequacy to meet future electricity demand.
- They are carried out in jurisdictions across North America.
- IRP's serve as a venue for stakeholder consultation and engagement in NS Power's resource planning.
- NS Power conducted IRP's in 2007, 2009, 2014, 2020, and most recently the 2022 Evergreen IRP.
- Outcomes to the IRP process include Action Plans and Roadmaps describing the key tasks to be undertaken to meet our long term objectives.



Evergreen IRP – Overview

- NS Power completed a comprehensive IRP in November 2020. In its IRP Final Report, NS Power committed to an evergreening process to reflect accelerating changes in the electricity planning environment
- NS Power completed its first evergreen IRP, which was completed in August of 2023
- Like the 2020 IRP, the evergreen IRP process is iterative and stakeholder-focused, incorporating multiple rounds of input and feedback as well as sharing of results and findings



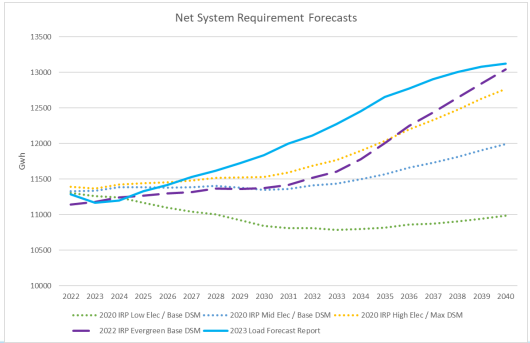
Evergreen IRP - Assumptions

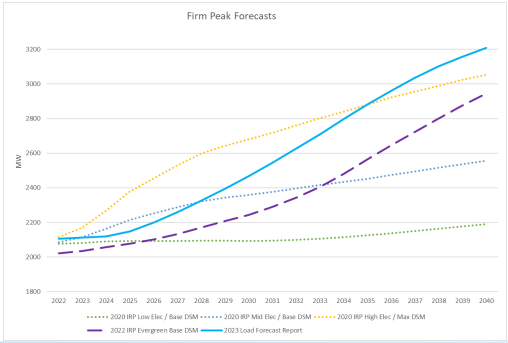
- 2030 targets (80% RES, coal phase out) – base case
- Federal Carbon Pricing
- Fuel availability and pricing
- Capital and operating cost assumptions
- Load profile and electrification assumptions
- Renewable integration requirements
- Import potential and pricing
- Emerging technologies (SMRs, Hydrogen, Long Duration storage, offshore wind, geothermal)

Evergreen IRP – Key Assumptions

Load

- NS Power is planning for a growing electricity system load, consistent with what is being forecast across many jurisdictions as part of the coming energy transition.
- NS Power's Load Forecasting process incorporates electrification effects of the economy-wide transition to net zero, with data and modeling support from our expert consultant Energy + Environmental Economics (E3).
- These forecasts incorporate energy efficiency, demand response, and managed EV charging to mitigate what would otherwise be even higher electricity system demand.

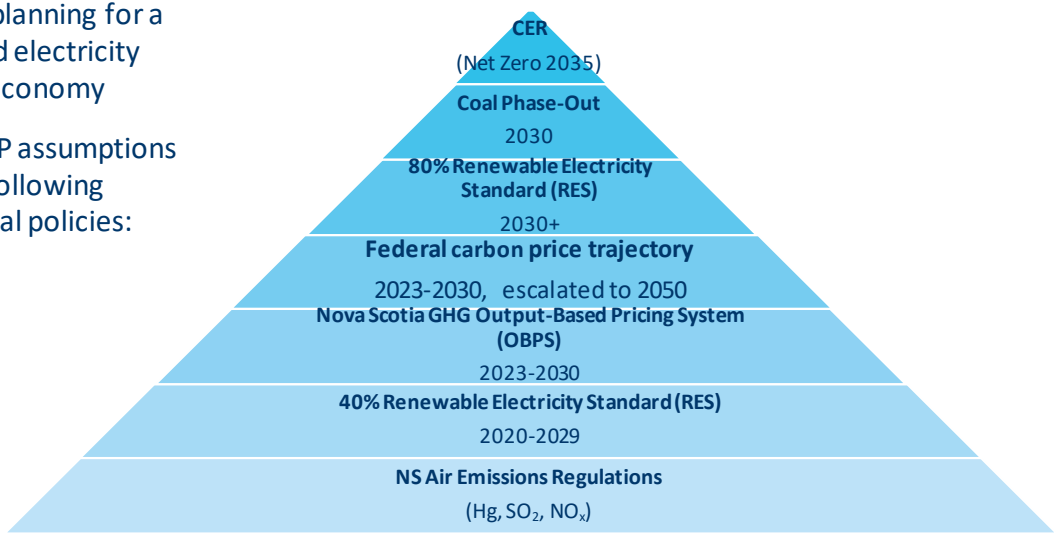




Evergreen IRP – Key Assumptions

Environment

- NS Power is planning for a decarbonized electricity system and economy
- Evergreen IRP assumptions include the following environmental policies:



Evergreen IRP Modeling Scenarios List

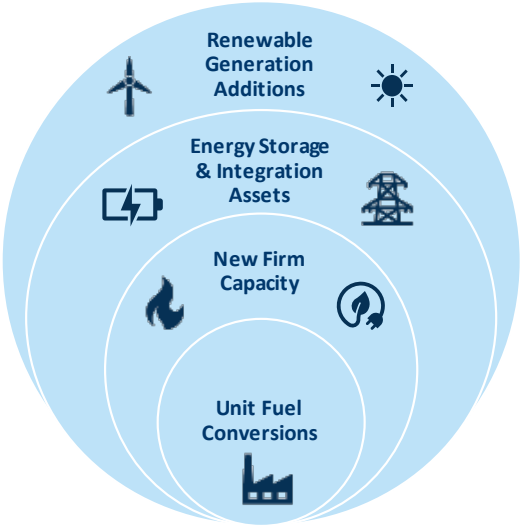
The following table reflects the modeling scenarios evaluated in the Evergreen IRP (2022/2023)

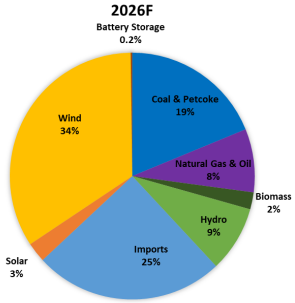
Scenarios	Clean Energy Policy	Electrification	Resource Strategy	Sensitivities
CE1-E1-R1	NZ2035	Current Policy and Trends	Atlantic Loop	-
CE1-E1-R1-DH				Domestic Hydrogen
CE1-E1-R1-LFPP				Fuel and PP - Low
CE1-E1-R1-HFPP				Fuel and PP - High
CE1-E1-R1-MMDSM				Modified Mid DSM
CE1-E1-R1-BPDSM				Base+DSM
CE1-E1-R1-HDER				High Distributed Energy Resources
CE1-E1-R1-AAT				Adjusted Atlantic Loop Timing
CE1-E1-R1-WI				Wind Integration Constraints Removed
CE1-E1-R1-DACC				Direct Air Carbon Capture – 2035+
CE1-E1-R1-BD				Bidirectional Transaction – Atlantic Loop
CE1-E1-R2	NZ2035	Current Policy and Trends	No Atlantic Loop	-
CE1-E1-R2-DACC				Direct Air Carbon Capture – 2035+
CE1-E1-R2-DH				Domestic Hydrogen
CE1-E1-R2-MMDSM				Modified Mid DSM
CE1-E1-R2-HDER				High Distributed Energy Resources
CE1-E2-R2	NZ2035	Hybrid Peak Mitigation	No Atlantic Loop	-
CE1-E2-R2-HB/HR				High-Cost Battery Storage/High-Cost Renewables
CE1-E2-R2-MMDSM				Modified Mid DSM
CE1-E3-R1	NZ2035	Accelerated Electrification	Atlantic Loop	-
CE1-E3-R2			No Atlantic Loop	-
CE2-E1-R1	NZ2050	Current Policy and Trends	Atlantic Loop	-
CE2-E1-R2	NZ2050	Current Policy and Trends	No Atlantic Loop	-
CE2-E1-R2-DH				Domestic Hydrogen

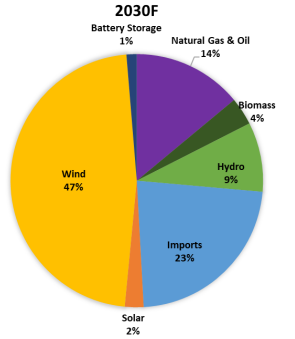
Outcomes of the Evergreen IRP

Common Themes and Action Plan

- There are **significant common elements** across the 24 scenarios modeled:
  - Regular, structured **renewable generation additions** to achieve identified wind/solar capacity buildout.
  - Near-term investments in **energy storage** and **transmission**, enhancing reliability and renewable integration capabilities.
  - Additions of **firm capacity** resources using a mix of fuels including gas, oil, and hydrogen as well as **demand response.**
  - Fuel conversions at **existing NS Power sites** to provide firm capacity and resilience to the power system.
- This transformation can be enabled by collaborative action toward a **2030 Resource Development Plan** based on the output of the IRP analysis.
- The scope of this transformation will require a rapid pace of project development, approval, construction, and commissioning in order to meet the 2030 goals and maintain system reliability.







Evergreen IRP Outcomes: Action Plan

Action Plan Item	Focus	Plan to 2030/COSS Areas of Interest
1: Regional Integration	Regional integration strategy: access to firm capacity and improve system reliability	Reliability Tie (2028)
2: Electrification	Evaluate the role of electrification in the long-term strategy	Hybrid Peak Mitigation
3: Thermal Retirement Plan	Progress the thermal retirement, redevelopment and replacement plan	• Thermal Plant Retirement • Wind and Solar • Fast Acting Generation • BESS • Thermal Plant Conversions/ Fuel Switching • Synchronous Condensers
4: Demand Response	Continued progression of the demand response strategy and assessment of other DR opportunities	DR programming of 75MW by 2025

Provincial 2030 Clean Power Plan

Wind
Add 1,000+MW new onshore wind by 2030 (offshore potential post-2030)
Green Choice procurement has begun, more every 18 months

Solar
Net Metering now well-established and growing each year
300MW+ large Solar by 2030 - Commercial begun, Community in Fall

Batteries + Renewables Integration
300-400MW Batteries by 2030
Additional renewable integration investments for reliability underway

Electrification/Load Management
Peak Management, Demand Response and Efficiency investments to reduce 150 MWs of peak and peak growth

Transmission
A new NS-NB Reliability Tie transmission line in service pre-2030
Potential to extend new transmission to Point Lepreau, NB by 2030

Fast-Acting Generation
300MW Hydrogen Capable/Flex-Fuel generators by 2030
Potential for 300+ MWs additional in 2030 or later

Emergency & Reliability Back-Up
450+MW Emergency/Back-up oil generators (use of existing plants)
Potential 100+ MW Coal-to-Gas conversions 2030

- Published by the Department of Natural Resources and Renewables in October 2023.
- Strong alignment with the findings from the 2022 Evergreen IRP.
- This alignment provides a basis on which to proceed with the required resource development activities identified in the 2030 Clean Power Plan.

Path to 2030 Report

- In the 2023 Annual Capital Expenditure (ACE) Plan Order (M11017) the UARB direct NS Power to:
  "File a detailed and specific plan outlining how the Company will achieve the 2030 obligations, what specific steps are required to meet these obligations, how the proposed steps will accomplish that goal, and when these steps will be taken."

- The Path to 2030 report was filed on December 22, 2023 as part of the 2024 ACE Plan (M11458).

Path to 2030 Report

Resource Plan

	Nameplate Capacity (MW)	Anticipated COD (Year)
Wind & Solar Resources		
Rate Base Procurement	373	2025
Green Choice Program	350	2028
Port Hawkesbury Paper Wind	168	2025
Renewable to Retail Wind	150	2024
Community Solar	50	2025-2029
Commercial Net Metering	50	2025-2029
Energy Storage Resources		
NS Power BESS Project	150	2025-2026
Section 4D Projects	150	2026
Section 4B Projects	100	2027-2028
Fast Acting Generation Resources		
Stage 1	300	2027
Stage 2	300	2029-2030

	Nameplate Capacity (MW)	Anticipated COD (Year)
Fuel Conversions at Existing Units		
Gas Conversion – Point Tupper 2	150	2028
HFO Operation – Lingan 1/3/4	459	2029
Total New Wind and Solar	1,141	
Total New Energy Storage	400	
Total New Fast Acting Generation	600	
Total Fuel Conversions	609	
Load Management Initiatives	150	2029
Total Coal Phase Out	1,229	

Path to 2030 Report

Accountability Matrix

- Achieving this significant transition will require the coordination and cooperation of a broad group of partners and stakeholders.
- Key stakeholders include the Government of Nova Scotia, Independent Power Producers (IPPs), EfficiencyOne (E1), Mi'kmaw Partners, and NS Power.

2030 Project	Accountability	Key Partners
Wind/Solar	NS Government	IPP's
Battery Storage	NS Government and NS Power	IPP's
Grid Stability and Renewable Integration Resources	NS Power	IPP's
Hybrid Peak/ Load Management	NS Government	E1
Reliability Tie	NS Power	
Fast Acting Generation	NS Power	
Fuel Conversions	NS Power	

Areas of Interest to COSS
BESS

- NS Power has a capital application before the board for the procurement of 3 x 50 MW/200MWh transmission connected batteries.
  - Bridgewater (Municipality of the Town of Bridgewater
  - Spider Lake (Halifax Regional Municipality)
  - White Rock Road (Municipality of the County of Kings)



Rendering of typical Energy Storage Facility

- BESS Value Proposition
  - Enable renewable integration
  - Add firm dispatchable capacity
  - Energy time shifting
  - Fast frequency response
  - Contribute to operating reserve
  - Contribute to planning reserve margin

Areas of Interest to COSS

Wind Integration Mitigation Options

- On December 8th, 2024, NS Power published the Wind Integration Study titled "Large Scale Integration of Invertor Based Resources" on the IRP website
  - This study assesses the requirements on the grid to integrate the increase in invertor based resources (wind, solar) while maintaining system reliability
  - The report identifies key metrics for frequency control and system strength and the available mitigation options to ensure these metrics are met and maintained
- In addition to BESS, the following transmission assets were identified as potential mitigation options:
  - Synchronous condensers
  - Flexible AC Transmission System (FACTS) Devices, Static Var Compensators (SVCs), 29 Static Synchronous Compensators (STATCOMs), Switched and Static Capacitor Banks
  - Fast Acting Synchronous Generation

Areas of Interest to COSS

Thermal Plant Conversions/Fuel Switching

- With the phase out of coal generation, the Evergreen IRP pointed to the value of the following gas conversion/ fuel switching projects:
  - Conversion of one thermal unit from coal to natural gas
  - Coal to heavy fuel oil (HFO) transition for Lingan units 1, 3 and 4 (they are currently equipped to burn HFO)
- Once these projects are complete, will require the utilization of those plants in a manner different than originally designed

Emerging Developments – Path to 2030

Clean Electricity Regulations (CER)

- On August 19, 2023, the Federal Government released the draft Clean Electricity Regulations (CER) in Canada Gazette 1 (CG1)
  - The CER applies to all NSPI emitting generation
  - The CER is the Federal Environment and Climate Change Canada (ECCC) approach to achieve Canada wide economy net zero targets by 2050 by reducing emissions from emitting generation starting in 2035
- The requirements of the CG1 proposed frame offered some flexibility for emitting generation operating in a peaking capacity but was too restrictive on a per unit basis
- NSPI engaged with ECCC as part of the CG1 engagement period to provide the following feedback, which was reflected in an update from ECCC on February 16th:
  - Additional flexibility is required to operate our emitting fleet to maintain system reliability/meet customer demand during peak periods/support the integration of wind resources - considering an emissions cap per unit with the ability to pool total emissions across fleet
  - Our modeling demonstrates that operating our emitting fleet in a peaking capacity (low capacity factors) supports system reliability while still reducing overall system emissions – considering the use of offsets to allow for the level of operation of peaking units required by NSPI
- NSPI will participate in the current engagement period following the February 16th update in advance of the CG2 release

Emerging Developments – Path to 2030

Hydrogen

- The current focus of NS Power's engagement with the prospective H2 developers is to assess both the impacts of future development on the power system and assess for future opportunities for the use of H2 as a green fuel source.
- H2 Tariff:
  - As a product of this engagement, the development of a hydrogen tariff to identify H2 developer specific utility services and the cost structure is currently under development.
  - The tariff will be subject to UARB approval and will be assessed within the context of the 2030 Clean Power Plan
- Domestic Hydrogen Fuel Source:
  - The value of a future domestic source of hydrogen from these developers was studied in the Evergreen IRP, based on Evergreen IRP modelling results, hydrogen enabled fast acting generation was not selected as a resource
  - Updated information on hydrogen fuel pricing and availability can be assessed in the future through the Evergreen IRP process

2024 Generic COS Proceeding

Technical Conference No. 2

Overview of NS Power's COSS

February 22, 2024

Nova Scotia POWER
An Emera Company

Agenda

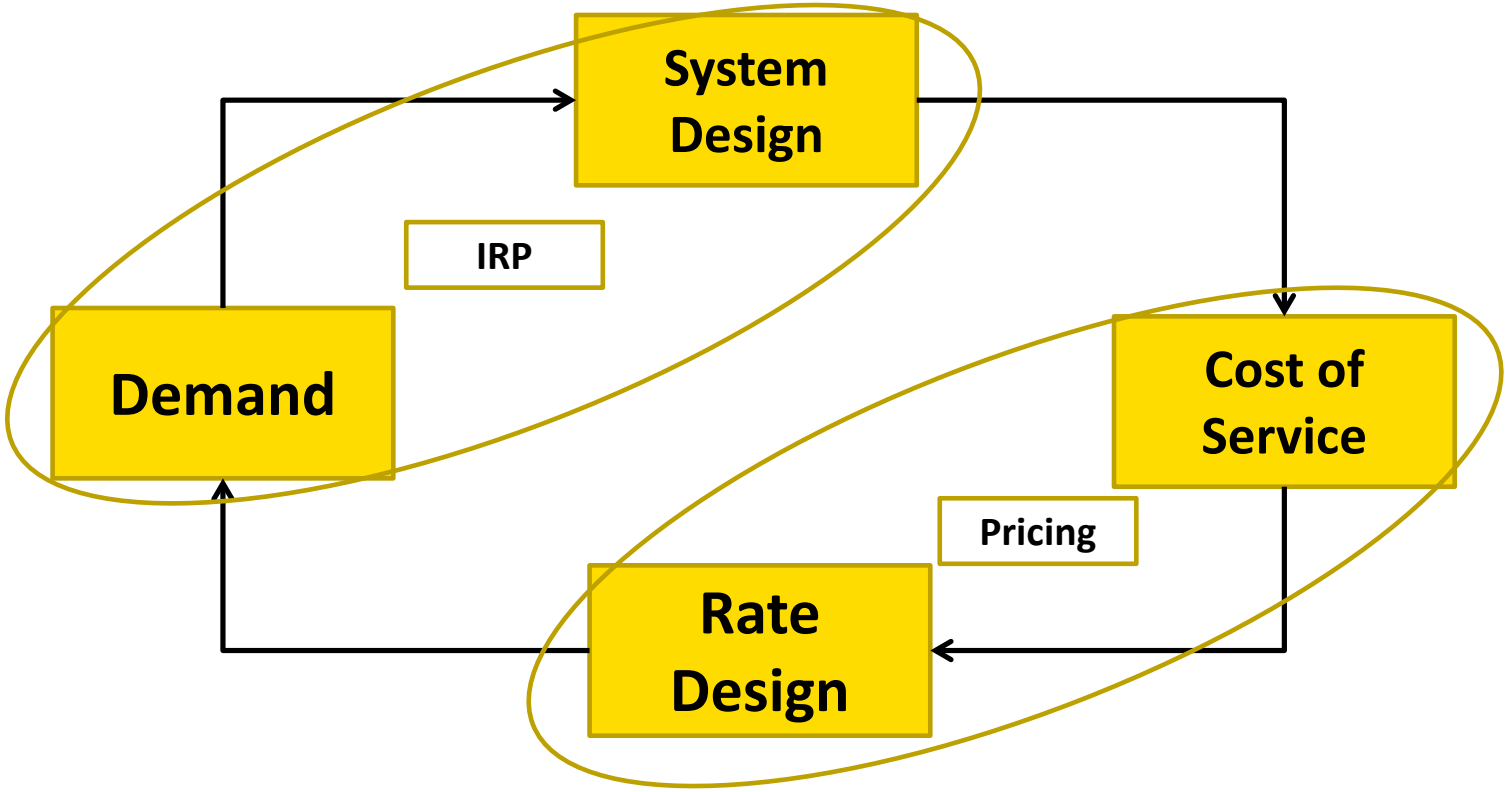
- Introduction
- COSS from infrastructure planning perspective
- Walk through 2023 COSS calculations
- Questions

Agenda

- Introduction
- **COSS from an infrastructure planning perspective**
- Walk through 2023 COSS calculations
- Questions

Recap Link between COS and IRP:

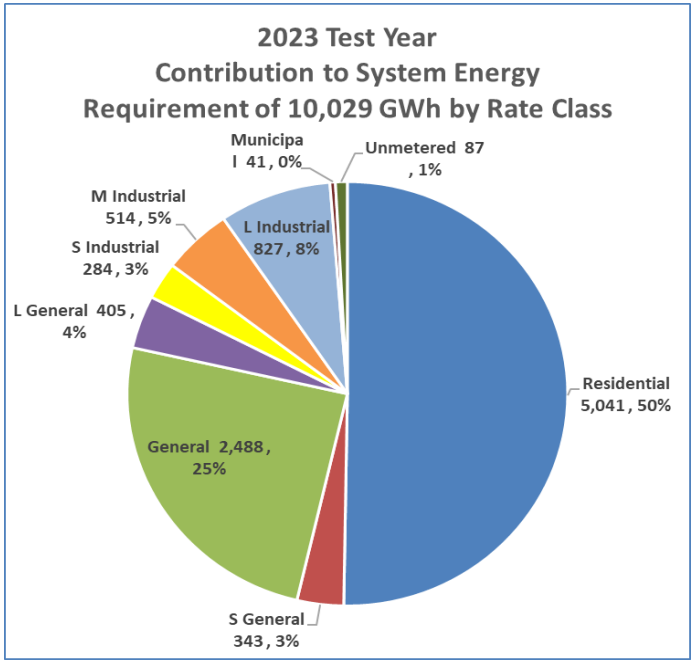
Cost causation from a planning perspective

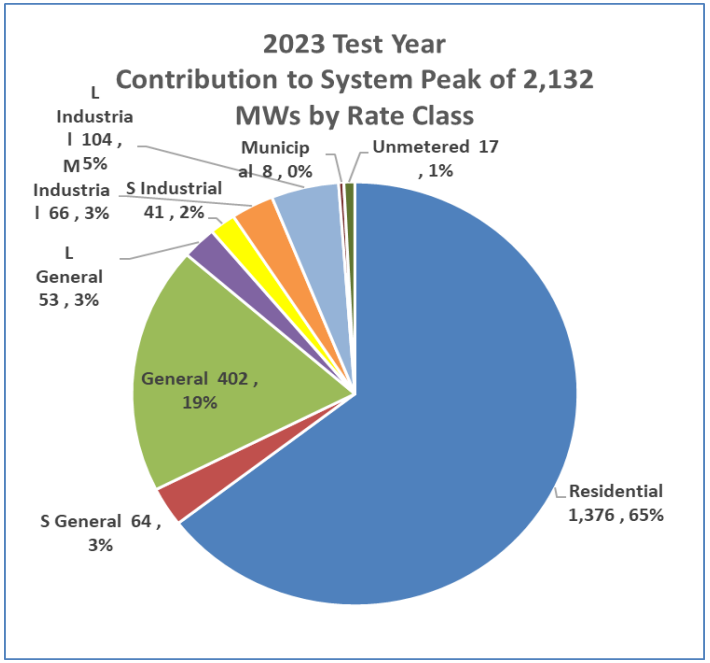


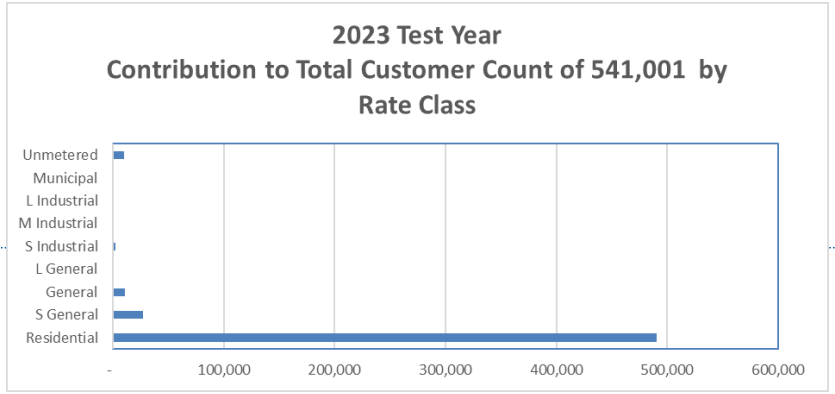
energy everywhere.™

Nova Scotia POWER An Emera Company

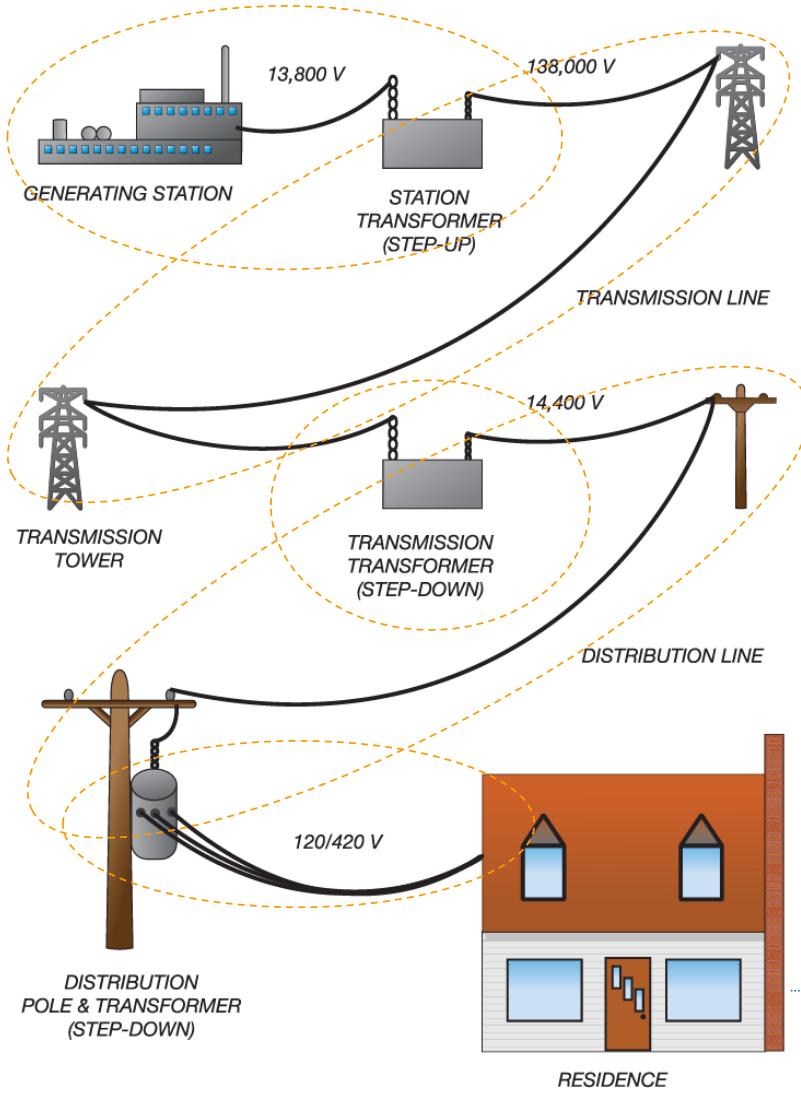
Demand by Electric Service Components







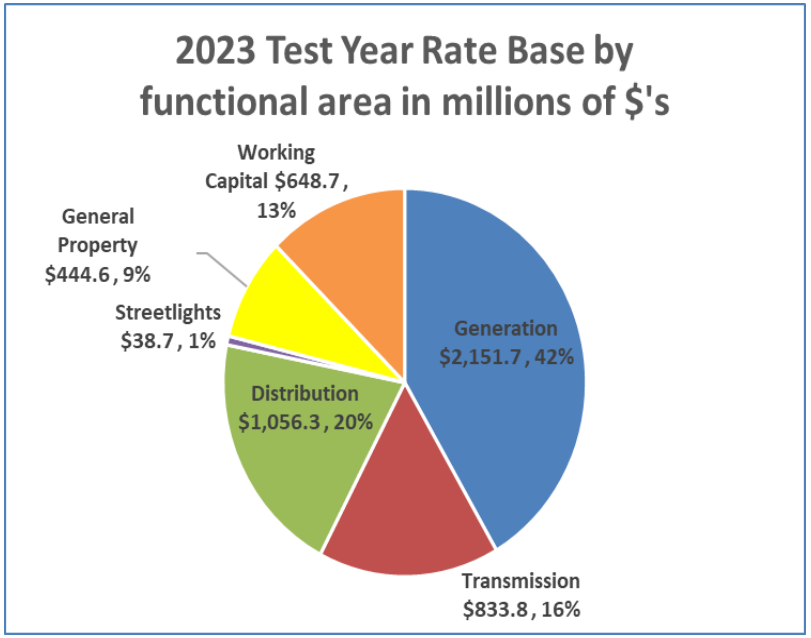
NS Power Generation, Transmission and Distributution System

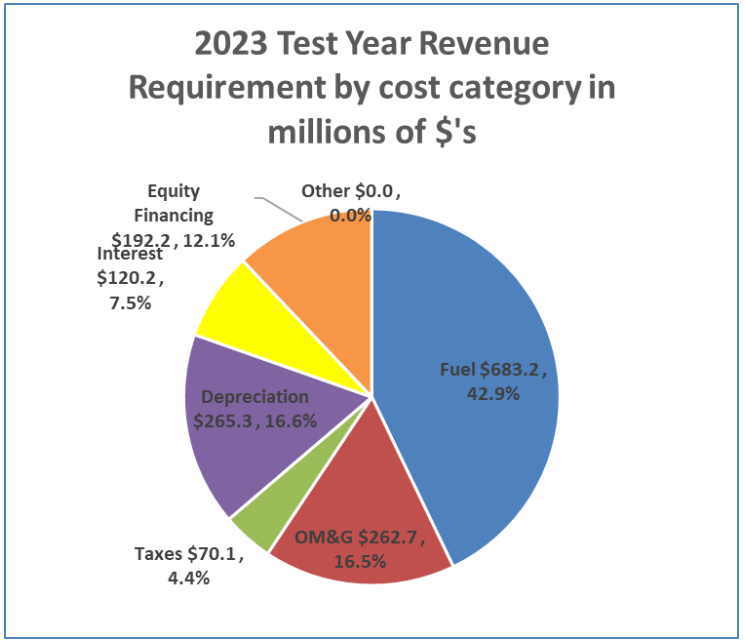


System Design by Component

- **Generation (54% RB, 76% Rev)**
  - 2,336,000 kilowatts Firm Capacity
  - $2.8B RB, $0.5B FX cost, $0.8B Fuel & Purchased Power
- **Transmission (19% RB, 8% Rev)**
  - 69 to 345 kV lines, 5175 kilometers
  - $1.0B RB 19%, $0.14 B Cost
  - **Step up and down Substations**
- **Distribution (26% RB, 14% Rev)**
  - $1.3B RB, $0.23B Rev
  - **Distribution Lines (12.5 to 25 kV; 25,000 km)**
  - **Stepdown Substations**
  - (bulk power and distribution)
  - **Services**
    - 120/240 single phase, 120/208V and 347/600V three phase
- **Retail (0% RB, 2% Rev)**
  - $0 RB, $0.03B Rev

COSS: Rate Base vs Revenue Requirement.





- The books and records of the Company, save dedicated facilities, are not kept at a rate class level, so class level costs must be developed.

energy everywhere.™

Nova Scotia POWER An Emera Company

Pricing: Rate Setting Process from a COS Perspective (2024 revenue figures)

- **Electric Services ($1.9 billion or 98.2%)**
  - **Bundled Service Electric Rates ($1.9 Billion or 99.6% of Electric Serv.)**
    - Base Cost Rates (BCR or above-the-line ATL) – changed in General Rate Applications ($1.7 billion or 90.8% of bundled Serv.)
    - Annually Adjusted Rates (AARs or below-the-line BTL) – formula based rates ($0.091 billion or 4.9%)
    - Cost Trackers with True-up: FAM Riders, DSM Riders, Storm Riders, Solar Garden Pilot Rate Rider ($0.074 billion or 4.0%)
  - **Unbundled Service Electric Rates ($0.007 billion or 0.4% of El. Serv.)**
    - Wholesale Municipal Market: BUTU, Spill, OATT
    - Renewable to Retail Market: EBS, SS, RTT, OATT, DT

- **Non-electric miscellaneous services** (Poles services, Late Payment charges, wiring inspections, connections/disconnections etc) **($0.033 Billion or 1.8%)**

Pricing: COS is a pivotal component of Base Cost Rate Setting Process responsible for 99.9% of Revenues

Price Level
The total amount of revenue needed from all customers classes for the utility to recover its expenses and earn its allowed rate of return.

Cost Allocation
The amount of total costs to be allocated to individual rate classes.

Revenue responsibilities
Determines the revenue responsibilities among rate classes and individual customers.

Revenue Requirement

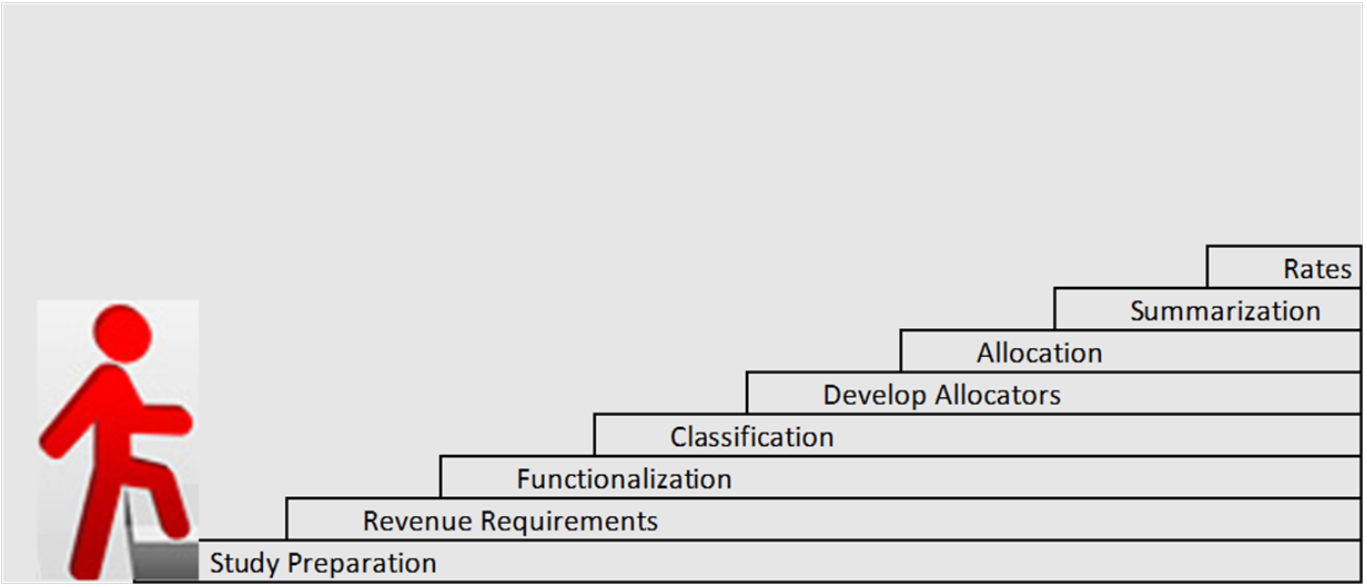
Cost of Service

Rate Design

Agenda

- Introduction
- COSS from infrastructure planning perspective
- **Walk through 2023 COSS calculations**
- Questions

NS Power's COS Methodological Design Recap



Definitions

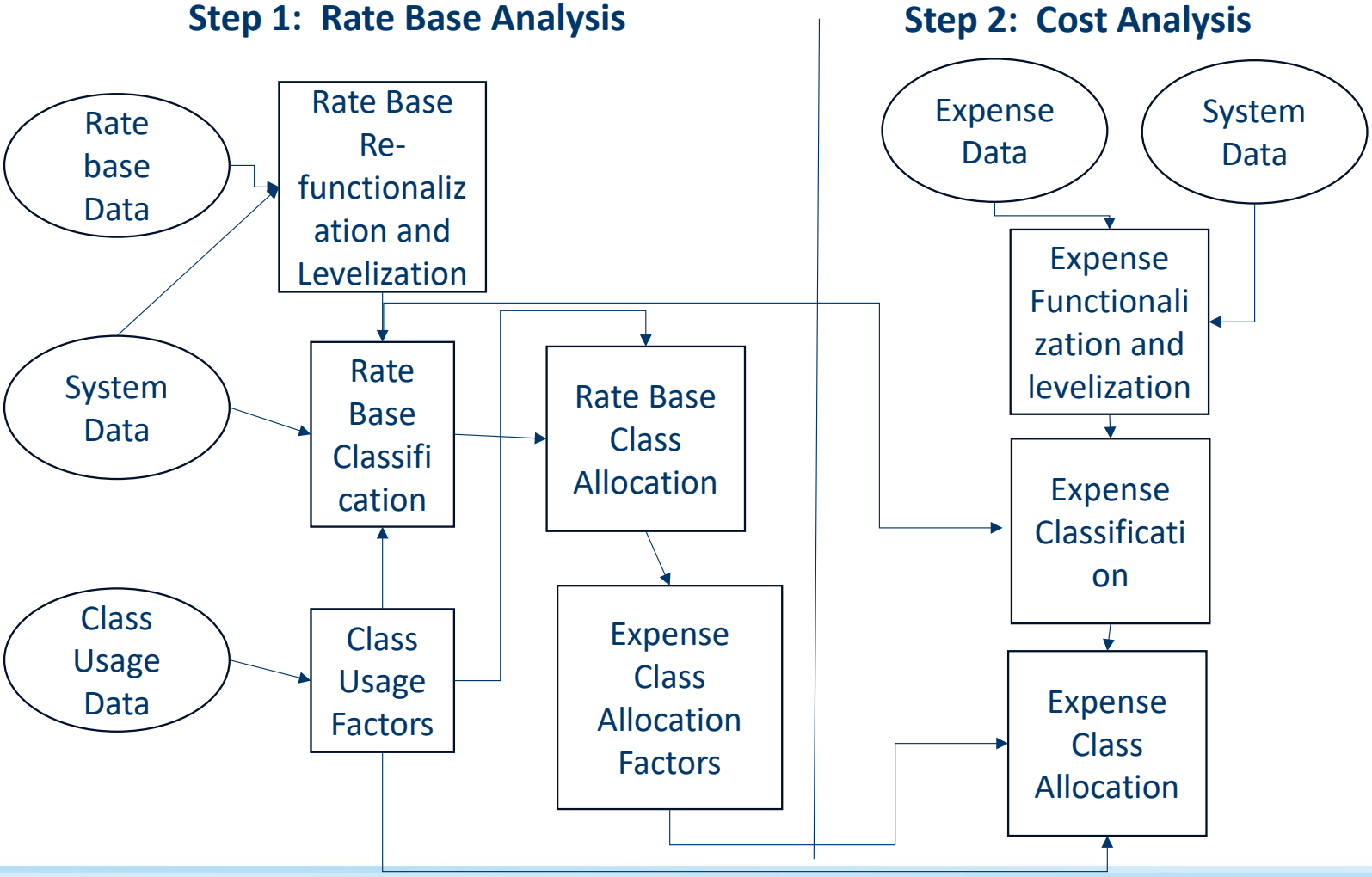
Cost of Service Studies

The Cost of Service Study is a process used by a utility to apportion utility's costs among customer classes for the purpose of development of rates. Aside from determining overall cost responsibilities of rate classes the COS lays down foundations for the rate structures.

Rate base

Total value of the utility's plant and equipment, regulatory assets, materials and supplies, working capital, etc.

NS Power's COS Calculation Process Flowchart



NS Power's COS Spreadsheet Calculation Process

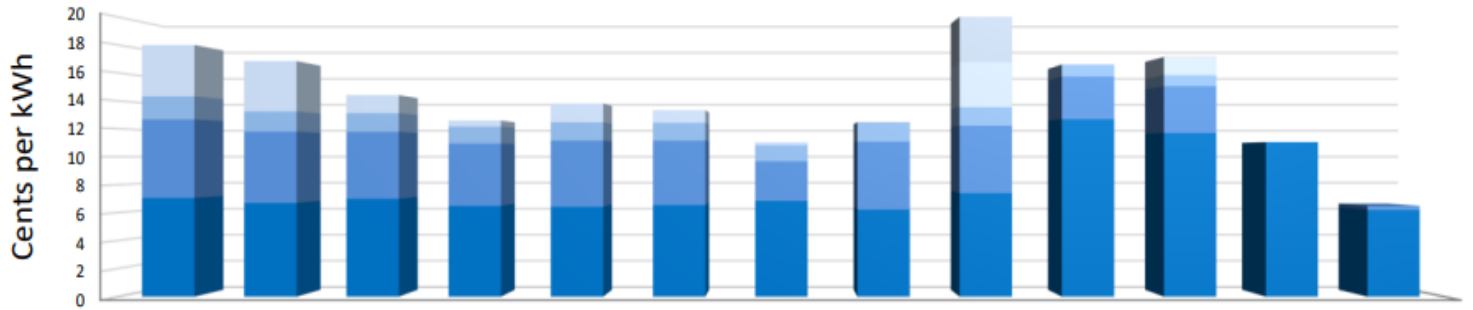
- **Data Input Collection:** Input Data, Input Data Two
- **Class Usage:** Exh 9a – 9c
  - Usage based allocator factors in Exh 8a
- **Rate Base apportionment to rate classes**
  - Functionalization: Exh 2
  - Classification: Exh 2a, 2b
  - Sub-functionalization and classification of distribution: Exh 3a – 3g
  - Allocation: Exh 3 – give rise to cost allocators in Exh
  - Rate base allocation factors: Exh 8b
- **Cost Apportionment to rate classes**
  - Cost functionalization: exh 4, 4Detail A
  - Cost classification: Exh 5
  - Classification of Distribution expense: Exh 6a – 6d
  - Cost Allocation: Exh 6
- **Cost Summaries:** Exh 7, Exh 10

Source: Exhibit N-4 Studies and Reports: 2022-2024 GRA SR-01 Attachment 1a Cost of Service Methodology and 2022-2024 GRA SR-01 Attachment 3-2023 Cost Of Service Study Analysis

In NSUARB' site: UARB15 (APUARB11) (novascotia.ca) ***M10431.***

Results

2023
Cost of Service by Functional Areas in cents per kWh(1)



	DOMESTIC (Weighted Average of 2 Classes)	SMALL GENERAL	GENERAL	LARGE GENERAL	SMALL INDUSTRIAL	MEDIUM INDUSTRIAL	LARGE INDUSTRIAL FIRM	MUNICIPAL	UNMETERED	1P-RTP: (Weighted Average of 3 Classes)	SHORE POWER (Distribution)	LOAD FOLLOWING	ELIADC
Total	18.453	17.444	14.518	12.687	14.245	13.412	11.106	13.251	25.405	16.611	17.440	11.542	6.481
Retail	0.468	0.609	0.120	0.101	0.439	0.091	0.065	0.795	0.504	0.019	0.311	0.500	
Streetlight Fixture	0	0	0	0	0	0	0	0	8.142	0	0	0	
Distribution	3.675	3.608	1.289	0.438	1.347	0.901	0.212	0.001	3.211	-	1.317	-	
Transmission	1.642	1.441	1.334	1.209	1.311	1.269	1.161	1.377	1.332	0.866	0.777	-	
Generation-Non-Fuel	5.619	5.099	4.792	4.464	4.733	4.612	2.831	4.865	4.820	3.051	3.340	-	0.300
Generation-Fuel	7.048	6.688	6.984	6.475	6.415	6.538	6.837	6.213	7.395	12.676	11.696	11.042	6.181

(1) Bill amounts paid by individual customers may vary from the above benchmarks due to a difference in usage between the customer and its rate class average and difference between rate design, Rate increase directives and functional cost breakdown under the COSS for each class

Source: Rates & Tariffs| Nova Scotia Power (nspower.ca)

Appendix

Changes to COS Methodology since 1995

1995 COS Generic Hearing (NSPI864)

- Classification of generation and transmission should reflect the intent of the asset:
  - All generation costs associated with environmental compliance and fuel conversion to be classified as energy-related
  - Fixed costs of Steam and Hydro generation and transmission are to be classified to energy on the basis of the annual system load factor (actual energy/total possible energy) whereas the remaining costs are to be classified as demand related.
    - There is an element of energy cost causation in baseload generation planning as large capital investments are made to minimize energy costs.
    - Equivalent Peaker method was considered and rejected as unacceptable due to inconsistent calculations because the current cost of a combustion turbine is being compared to the historical cost of other generating plant in order to define a reasonable % classification to demand. To produce reliable results the rate base of the existing generation must be converted to current cost levels.
    - Transmission should be treated as extension of generation – i.e. whatever causal effects there are in generation also apply to transmission.
- G & T demand-related costs to be allocated based on class three winter month coincident peak demands 3CP (replacing the Average and Excess method) and fuel costs to be allocated on monthly basis in reflection of the presence of seasonality in fuel costs.

2013 COS Generic Hearing (M05473)

- Upheld status quo regarding the most significant elements of the 1995 COS design
  - SLF-based classification and 3CP Allocation of non-fuel costs of base load generation and transmission was favored over
    - Equivalent Peak and Time-differentiated Methods in relation to generation and
    - 100% Demand 12CP in relation to transmission

  …with the exception of classification of Distribution Costs which is still pending the outcome of this proceeding

- Changes in treatment of some elements of 1995 COS amounted to recalibration to align better with cost causation and asset utilization.
  - Purchased Power cost sub-functionalized in reflection of changes in purchased power mix (wind, biomass and hydro).
  - Purchased power costs, other than wind and biomass, to be classified to energy and demand in like fashion to NSPI-owned base load generation.
  - Wind classification should align with planning assumptions in effect at the time of GRA.
  - A formulaic approach to replace allocation of billing and call center costs based on weighted customer counts.

COS Generic Hearing (M05473) - Deferred Projects

No	Project	Status
1 &2	Capacity contribution of ERIS and NRIS wind	Consistent with Board's directive the COS treatment in BCF and GRA proceedings aligned with NSPI's planning assumption based on IRP studies. In the most recent GRA proceeding both resources were assigned a capacity contribution of 18%.
3	Treatment of Lingan Units 1 & 2	Continued to be treated as base load units consistent with the original cost causation and utilization purpose at the time of construction. The units operate under reduced capacity but can't be used as peaking units as they do not have operating characteristics of combustion turbines.
4	Survey of Distribution System	NSPI conducted a review of the system and engaged Concentric to review the results and make recommendation which was reflected in the 2022-2024 COSS.
5	Class Load Data Collection and analysis	The Load Research Sample was refreshed to recognize attrition of data points over time and changes to rate class boundaries and populations based on a report prepared for NSPI by Itron Inc.

COS Generic Hearing (M05473) - Deferred Projects

No	Project	Status
6	Line Loss Determination model	The Company is in the process of hiring a consultant to conduct a review of its line loss model the results of which should be available for stakeholders' review in Q2, 2024.
7	Allocation of Miscellaneous revenues	Following two rounds of consultations with stakeholders, NSPI filed a report with its conclusions and recommendations on Feb. 9, 2015. The COSS filed in the most recent GRA incorporated the results of this report.
8	Allocation of overhead costs	Same as item 7 above.
9	Transmission to Distribution Rate Base Adjustment	Same as item 7 above
10	Review Transformer Loss Adjustment (TLA)	NSPI engaged a consultant to review TLA and filed his report, in which the consultant recommended new TLAs by rate classes, on July, 2016. The revised TLA have been included in the currently approved tariffs.

2016 Renewable to Retail Hearing (M06214)

- In response to NSUARB IR-01 and Multeese DR-30 NSPI discussed treatment of RtR rates and revenues in COS.
  - Test year RtR revenues to be treated as an offset to the test year revenue requirement from the above-the-line classes (ATL) on a cost itemized basis in exhibits 4 and 4A as is the case with other below-the-line (BTL) rate classes.
  - The RtR non-fuel cost charges, reflecting embedded cost of service, are to be determined on an iterative basis simultaneously with apportionment of net revenue requirement to the ATL classes.

Changes in treatment of BUTU Tariff in COSS

- 2021 BUTU (M09940):
  - BUTU energy and demand charges to be fully embedded cost-based subject to a 4-year phase-in with years three and four to be postponed until an updated COSS is filed.
  - BUTU subject to the FAM adjustment with capacity contribution credit forming a cost item for FAM customers.
  - The non-FAM rate components of BUTU charges reflected fixed cost rate components of the Standby and Energy Balancing tariffs in the RtR market.

COS Treatment of Maritime Link

- 2017-2019 Fuel Stability Plan (M07348) – UARB approves Settlement Agreement wherein parties agree to conduct consultations to address COS treatment of ML costs.
- Following stakeholder consultations NS Power filed a strawman report on COS Classification of the ML which recommended that the Nova Scotia Block costs be treated as NS Power-owned hydro that is classified to energy on the basis of the SLF.
- Surplus energy, which represents non-firm imports, has been classified entirely to energy.
- All approved FAM rates have reflected the above treatment of ML costs.

Summary

- Methodology of NS Power's COS has evolved in response to NS Power's changing operating, regulatory and technological environments.
- With the addition of new types of generation and implementation of hourly load research samples the treatment of generation and transmission has progressed to employ more sophisticated and accurate methods comprised of SLF-based classification and 3CP-based allocation in replacement of an Average Excess method in 1995.
- A detailed review in the 2013 COS proceeding examined alternatives to:
  - Generation's SLF/3CP method such as Equivalent Peak or a time-differentiated method such as BP or BIP. However, these alternatives were rejected by the Board as too data intensive, too complex, producing unstable results, and not widely used in the industry.
  - Transmission's SLF/3CP method, such as 100% Demand/12CP on the grounds of growing diversity in generation mix with conversion to gas and the addition of renewable generation sites. However, this argument was not accepted by the Board, who saw this development as reinforcing support for status quo.

2023/2024 Generic COSS

Stakeholders Meeting

Demand Side Management (DSM)

March 13, 2024

Nova Scotia POWER
An Emera Company

Overview

- DSM Cost Recovery Process
- 2023-2025 DSM Resource Plan
- Regulatory Background behind Cost Allocation Methodology
- DSM Cost Allocation Methodology

DSM Cost Recovery Process

- To meet its obligations under the Public Utilities Act R.SNS 1989, c 380 (Act) to undertake cost-effective electricity efficiency and conservation activities NS Power enters into an agreement with EfficiencyOne (E1), a DSM franchise holder, to supply these activities.
- A supply agreement is for a multi-year term and is subject of UARB's approval.
- NS Power is responsible for recovery of approved DSM costs incurred by E1 on delivery of DSM programs to NS Power's customers.
- The Costs are recovered through application of
  - DSM Cost Recovery Riders (DCRR) in cents per kWh differentiated by rate class, with the exception of OATT Municipal Electric Utilities (MEUs), and made up of two rate components
    - Program Cost Recovery (PCR) reset on prospective basis each year
    - Balance Adjustment (BA) – a true-up of PCR from two years prior for actual costs and kWh usage.
  - Direct billing applicable to MEUs where customers pay customized fixed monthly instalment amounts.
- DSM Riders are approved annually based on the multi-year supply agreement.

2023 – 2025 DSM Resource Plan

- The current 2023-2025 DSM Resource Plan was approved by NSUARB on December 6, 2022 with the following performance targets.

Year	Investment ($ million)	Lifetime Benefits ($ million)	First-Year Energy Savings (GWh)	Lifetime Energy Savings (GWh)	Weighted Average Measure Life (years)	Peak EE Demand Savings (MW)	Available DR Capacity (MW)	Total Resource Cost Test (TRC)		Program Administrator Cost Test (PAC)	
								incl. carbon	excl. carbon	incl. carbon	excl. carbon
2023	53.1	172.0	120.7	1,502	12.4	26.9	3.0	2.0	1.4	2.9	2.0
2024	57.5	179.0	142.6	1,540	10.8	25.6	10.0	2.0	1.4	2.8	2.0
2025	62.5	191.9	149.5	1,639	11.0	26.3	17.9	2.0	1.4	2.9	2.1
Total	173.0	542.8	412.7	4,681	11.3	78.8	17.9	2.0	1.4	2.9	2.0

- The DSM Riders currently in effect are designed to recover 2024 DSM Budget costs of $57.5 million which represents approximately 3% of the NS power Revenue requirement of 1.9 Billion in 2024.

Regulatory background behind current DSM Cost Allocation Approach

- The current cost allocation methodology was approved by the Board in its 2010 DSM Plan and 2010 DSM Rider Decision (NSUARB-NSPI-P-884(2). Board's findings were as follows.
  - There are 3 kinds of cost benefits resulting from DSM: System, Class and Participation
  - The recovery of DSM costs from customers should reflect the level of benefit it received by customer classes. Those customer classes who receive the most benefit would bear the most responsibility to contribute to these costs. A customer class that receives only system benefits would contribute to the costs accordingly despite not directly participating in programs. Given the nature of DSM programs and benefits it is not possible to precisely calculate and allocate costs based upon these various benefits.
  - 75% of DSM costs to be treated as participant costs directly assigned to rate classes while the remaining 25% are to be apportioned in accordance with the COSS methodology.
- The methodology was upheld by the UARB in its Order (NSUARB-E-ENSC-R-12) on the 2013-2015 DSM Plan in which it accepted recommendations in the Minutes of Settlement (item #4 Amended Cost Allocation Appendix C)

The Cost benefits resulting from DSM programs

- 1. *System* - Avoided future infrastructure and related costs, reduced fuel costs, and contribution to achieving environmental and emissions restrictions. All customers receive these benefits.
- 2. *Class* - When customers within a class participate, the whole class benefits by a reduction in their Cost of Service allocation, even those who do not actively participate.
- 3. *Participation* - Customers who are able to participate in DSM programs can lower their own electricity usage and therefore their costs.

DSM Pricing is subject to regulatory oversight

Price Level
The total amount of revenue needed from all customers classes for E1 to recover its expenses.

Cost Allocation
The amount of total DSM costs E1 budgets and tracks its costs by Rate classes. However, 25% of these costs are reapportioned by NS Power.

Revenue responsibilities
Determines the revenue responsibilities among rate classes and individual customers.

Revenue Requirement

Cost of Service

Rate Design
(cent /kWh Rider)

Allocation of DSM Program Costs

- All DSM Costs are budgeted and tracked by Rate Classes (See Slide 10)

- System benefits are allocated to all applicable customer classes in accordance with the COS methodology reflecting allocation of generation rate base as per the most recent rate (See Slide 11)
  - In 2024 System Benefits represent $14 million of the DSM budget or 0.7% of NS Power's $1.9 billion revenue requirement.

- Once system benefits have been allocated, the remaining costs relate to the class and participation benefits. These costs are assigned to the class(es) participating in the DSM programs in proportion to amounts invested in each class. (See Slide 12)

Allocation of DSM Program Costs

- Step 1 – Allocate the system benefits to all applicable customer classes, as 25% of the total Approved DSM program costs, in accordance with the COSS methodology per the most recent rate case decision.
- Step 2 – Allocate the class and participation benefits by directly assigning 75% of the DSM investment identified for each participating customer class.
- Step 3 – Add the amounts from Step 1 and Step 2 to obtain the total amount to be recovered from each class.
- Step 4 - For NS Power bundled service customers, divide the total amount to be recovered from each class by the anticipated electricity sales for the class to derive the required program cost recovery for each class for the upcoming year.
- Step 5 - For customers taking service in the Wholesale or Renewable to Retail markets, recovery of DSM costs will be direct billed in accordance with the customer's class energy bill if served by NS Power under its bundled service offerings.
- Step 6 – Annually, true up the class and participation benefits by customer class, based upon actual experience in the 2 years prior to the current PCR year.

Determination of 25% System Benefit Costs

Table 1: 2024 PCR -Allocation of 75% of 2024 DSM Program Costs associated with benefits realized by participating classes

COLUMN	A	B	C	D	E	F	G	H	I	J		K
FORMULA										∑ col A to J		K * 75%
	Program costs by participating rate classes											
Program	Efficient Products (RES)	Existing Houses	New Houses	Efficient Products (BNI)	Custom Incentives	Direct Installation (BNI)	Education & Outreach	Development & Research	Other Enabling Strategies	All Program Costs Combined	25% -System Benefit	Program Costs Directly Assigned to Participating rate classes (75% of the total)
Rate Class												
Residential										$31,613,038	$7,903,260	$23,709,779
Small General										$2,831,752	$707,938	$2,123,814
General Demand										$14,293,599	$3,573,400	$10,720,199
Large General										$2,442,380	$610,595	$1,831,785
Small Industrial										$1,892,329	$473,082	$1,419,247
Medium Industrial										$1,078,539	$269,635	$808,904
Large Industrial										$2,317,375	$579,344	$1,738,031
Municipal Class												
Customer in Bundle Service										$266,218	$66,555	$199,664
Customer moving Load to OATT												
Customer A	[redacted]											
Customer B												
Customer C												
Customer D												
Subtotal Unbundled Service Customers										$601,375	$0	$601,375
Municipal before BUTU										$867,593	$66,555	$801,039
Unmetered										$28,648	$0	$28,648
Gen. Repl. / Load Following.	[redacted]											
1P-RTP												
Shore Power												
BUTU												
Total (Calc Check)	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$57,500,000**	**$14,217,494**	**$43,282,506**
Total (Before Allocation to rate classes)												

Numbers may not add due to rounding

Table 2, 2022 Alternative Plan Spending

Allocation of 25% System Benefits Costs

Table 2: 2024 PCR - Allocation of 2024 Program costs among rate classes

COLUMN	A	B	C	D	E	F	G	H

Program Cost Recovery by Benefits

System Benefits	25%	$14,217,494
Combined Class and Participant Benefits	75%	$43,282,506
Total[1]	100%	$57,500,000

Functionalization of system Benefit DSM Costs

	Factors
Generation	100%
Transmission	0%
Distribution	0%
Retail	0%

Classification of System Benefit DSM Costs

	Factors
Demand-related	34.30%
Energy-related	65.70%
Total	100.00%

	Demand-Related Costs			Energy-Related Costs			Total	
Rate Class	3 CP kW Demands	Relative Share	($)	MWh Energy Requirement	Relative Share	($)	Relative Share	Total Amount ($)
Residential[2]	3,991,390	63.5%	$3,095,667	5,619,834,197	52.7%	$4,919,292	56.4%	$8,014,960
Small General	191,251	3.0%	$148,332	360,802,310	3.4%	$315,826	3.3%	$464,158
General Demand	1,157,189	18.4%	$897,500	2,509,780,533	23.5%	$2,196,923	21.8%	$3,094,423
Large General	145,178	2.3%	$112,598	400,493,522	3.8%	$350,570	3.3%	$463,168
Small Industrial	129,767	2.1%	$100,645	278,975,688	2.6%	$244,200	2.4%	$344,845
Medium Industrial	192,447	3.1%	$149,260	511,290,528	4.8%	$447,551	4.2%	$596,815
Large Industrial	295,130	4.7%	$228,869	805,789,359	7.6%	$705,343	6.6%	$934,242
Municipal	26,977	0.4%	$20,923	41,840,881	0.4%	$36,625	0.4%	$57,548
Unmetered	43,502	0.7%	$33,740	86,320,336	0.8%	$75,560	0.8%	$109,300
Gen. Repl. / Load Following.								
1P-RTP								
Shore Power								
BUTU								
Total	**6,287,425**	**100.0%**	**$4,876,442**	**10,671,284,008**	**100.0%**	**$9,341,053**	**100.0%**	**$14,217,494**
Classification Breakdown	198,978	34.30%			65.70%			100.0%

Numbers may not add due to rounding

[1] Source: M 10473:EfficiencyOne 2023-2025 DSM Plan Application

[2] All residential rate classes use the same unit fixed cost estimate

DSM Cost Allocation Results

Table 3: 2024 PCR - Allocation of 2024 program costs among rate classes

Row #	COLUMN	A	B	C	D	E	F	G	H	I
7		Table 1		Table 2						
8	FORMULA	Column H		Column K		A + C			E / G	E / 12
9		System Benefit Costs (25% of the total expenditure allocated to classes using COS methodology)				Participating Class Benefit Costs (75% of the total expenditure directly assigned to participating classes)		2024 PCR		Sales Forecaxst	Charges and Payments	
10		Demand-related	Energy-related	Total	Relative Share	($)	Relative Share	($)	Relative Share	(GWh)	PCR Riders (cents/kWh)	Direct Monthly Payments
11	**Rate Class**											
12	Residential	$3,095,667	$4,919,292	$8,014,960	56.4%	$23,709,779	54.8%	$31,724,739	55.2%	5,151.1	0.616	
13	Small General	$148,332	$315,826	$464,158	3.3%	$2,123,814	4.9%	$2,587,972	4.5%	332.6	0.778	
14	General Demand	$897,500	$2,196,923	$3,094,423	21.8%	$10,720,199	24.8%	$13,814,623	24.0%	2,372.8	0.582	
15	Large General	$112,598	$350,570	$463,168	3.3%	$1,831,785	4.2%	$2,294,953	4.0%	377.8	0.607	
16	Small Industrial	$100,645	$244,200	$344,845	2.4%	$1,419,247	3.3%	$1,764,092	3.1%	263.7	0.669	
17	Medium Industrial	$149,260	$447,555	$596,815	4.2%	$808,904	1.9%	$1,405,719	2.4%	484.6	0.290	
18	Large Industrial	$228,899	$705,343	$934,242	6.6%	$1,738,031	4.0%	$2,672,274	4.6%	770.4	0.347	
19	Municipal Class											
20	Customer in Bundle Service	$20,923	$36,625	$57,548	0.4%	$199,664	0.5%	$257,211	0.4%	40.2	0.639	
21	Customer moving Load to OATT											
22	Customer A											
23	Customer B											
24	Customer C											
25	Customer D											
26	Subtotal Unbundled Service Customers											
27	**Municipal before BUTU**	$20,923	$36,625	$57,548	0.4%	$801,039	1.9%	$858,587	1.5%	40.2		
28	Unmetered	$33,740	$75,560	$109,300	0.8%	$28,648	0.1%	$137,948	0.2%	79.0	0.175	
29	Gen. Repl. / Load Following.										0.132	
30	1P-RTP										0.091	
31	Shore Power										0.091	
32	BUTU											
33	**Total**	**$4,876,442**	**$9,341,053**	**$14,217,494**	**100.0%**	**$43,282,506**	**100.0%**	**$57,500,000**	**100.0%**	**9,925.8**		$67,513.51
34	Numbers may not add due to rounding											

2024 Generic COS Proceeding

Technical Conference No. 4

Generation (Part One)

April 10, 2024

Nova Scotia POWER
An Emera Company

Agenda

- Classification of Generation
  - Historic Perspective behind Current Approach
  - Future Challenges
- Classification of Transmission
  - Historic Perspective behind Current Approach
  - Future Challenges
- Questions

Classification of Generation

Non-fuel generation cost classification in COS

- Generation rate base, broken down by types of generation, is initially classified to demand with the exception of investments for environmental or fuel economy reasons, which are classified to energy.
- The demand portion is then reclassified to energy as follows.
  - Based load generation of Steam, Hydro and Natural Gas Turbines and Combined Cycle plant is reclassified to energy based on System Load Factor (SLF). Currently set at 53.7%.
  - Wind plant, as a dispatch-limited resource, is reclassified to energy based on the basis of Effective Load Carrying Capability (ELCC) as determined by Generation Planning. Currently set at 18% which results in reclassification to energy of 82% of wind costs.
  - Diesel turbines are classified 100% to demand.
  - General Property and Working Capital are apportioned to generation service area based on its relative share in the total system plant and then broken down by energy and demand components based on their relative shares in total generation plant.
- Generation rate base, broken down by energy and demand, is apportioned to rate classes based on annual energy and 3CP Winter month demand usage.
- Capital-related generation costs are classified between energy and demand based on the relative shares in these two services of generation rate base.
- All of generation OMG Costs are classified to energy and demand based on shares of energy and demand in the total generation rate base.

Fuel-related cost classification in COS

- Purchased Power costs are treated in the same manner as costs of corresponding NSPI-owned types of generation.
- Wind generation purchase costs is classified to energy and demand based on the ELCC.
- Maritime Link (ML) costs under Nova Scotia basic and Supplemental blocks are classified to energy and demand based on the SLF in the same manner as NS Power-owned hydro generation and transmission costs.
- Biomass purchase costs are classified into three categories: fuel and non-fuel related based on relative shares of these two categories in annual cost budget. The non-fuel related costs are then broken down by energy- and demand-related categories based on the shares of these two categories in the generation rate base.
- Fuel and Imports costs, inclusive of the ML Surplus, are all classified to energy.

Rationale behind SLF-based classification

- Historically, NS Power's treatment of generation has fallen into a category of energy weighting methods which is designed to reflect the intent of generation assets to produce cheaper energy in addition to providing capacity.
- Prior to 1995 COS Decision (NSPI864), the Company used the energy weighting method of Average and Excess (AE) which classifies all costs to demand but then splits them between average system demand and excess demand and allocates them to rate classes base on their shares in the average annual demand and excess demands.
- The AE method was replaced with the SLF method in 1995, however, the extent of change was minor in that the portion of generation costs that were reclassified to energy has not changed. The only methodological difference between AE and SLF consisted in how demand related costs were allocated to rate classes where the 3CP method replaced the NCP method. This new method falls into a category of Judgmental Energy Weightings (NARUC Manual p.57)
- The UARB upheld this approach in its 1995 COSS Decision on the grounds that there was an element of energy cost causation in baseload generation planning as large capital investments are made to minimize energy costs and therefore a portion of generation costs should be reclassified to energy. The UARB also directed NSPI to classify generation costs associated with environmental compliance and fuel conversion directly to energy before application of the SFL-based classification to the remaining portion of generation costs.
- The SLF method was upheld by the Board in its decision on the 2013 COS (M05473). At that time most of the current market developments; such as displacement of fossil fuel-fired generation with purchases of renewable generation, self-generation, and DSM; were present or anticipated to occur in near future, such as ML, whose SLF classification was approved in subsequent Fuel Stability Plan proceedings.

Methods considered in the past proceedings

- In its 1993 COS Application (NSPI864), in response to UARB's earlier directive to propose a methodology which would classify costs associated with fuel conversion and environmental compliance to energy, NSPI proposed the use of the Equivalent Peaker (EP) method for classification of generation costs between energy and demand.

This proposal was rejected by the Board, however, as impractical (page 18) and replaced with the SLF-based method.

- In the 2013 COS proceeding (M05473) NS Power proposed that the SLF-method be maintained, however, it put forward for stakeholders' information in response to DR-16 cost allocation results of a variety of alternate classification methods such as Peak Demand (PD), various forms of EP methods, and time-differentiated (TD) methods such as base peak (BP) and base intermediate peak (BIP).

- The PD methods did not meet the energy weighting requirement while the EP and TD methods were rejected by the Board as too data intensive, too complex, producing unstable results and not widely used in the industry (Decision on M05473, 3.1.1 Findings).

Time-differentiated Method considered in 2013 COS

- Of interest to this proceeding; where parties indicated interest in finding a time-differentiated (TD) COS method that would better align cost apportionment to rate classes with time-differentiated cost causation and utilization and also facilitate a development of time varying rates; may be comments of Board's consultant, Mel Whalen, who pointed out many imperfections of such methods. In his view (M05473 Decision, page 9)
  - TD methods, which are one test year-based formulaic simplifications of a generation planning process, fail to reflect its true complexity which takes into account long-term load forecast, public policy, changing technology as well as a non-economic generation dispatch order constrained by annual emission standards and affected by availability of hydro generation.
  - The equitability of TD-based solutions is questionable as they take a one-sided view of a need for peaking capacity driven largely by classes with lower coincident peak load factors ignoring needs for reserves to cover forced outages of baseload units.
  - The cost of additional capacity is a poor predictor of on-peak generation capacity cost as the planners do not concern themselves with time-differentiated energy loads in their decision to build various types of generation but rather take into account only annual energy loads to be served by these units.

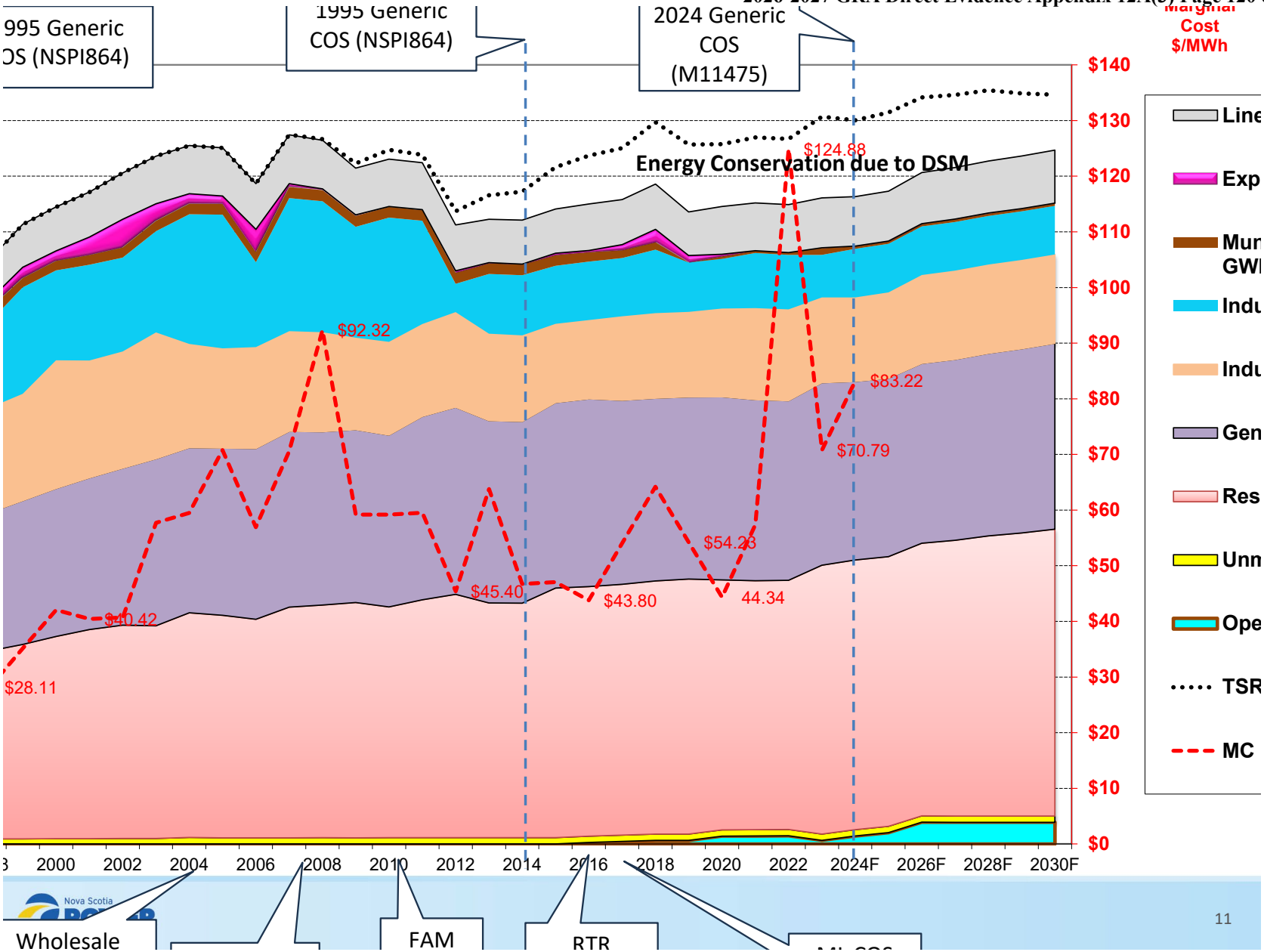
Evolving and adaptive nature of NS Power's COS

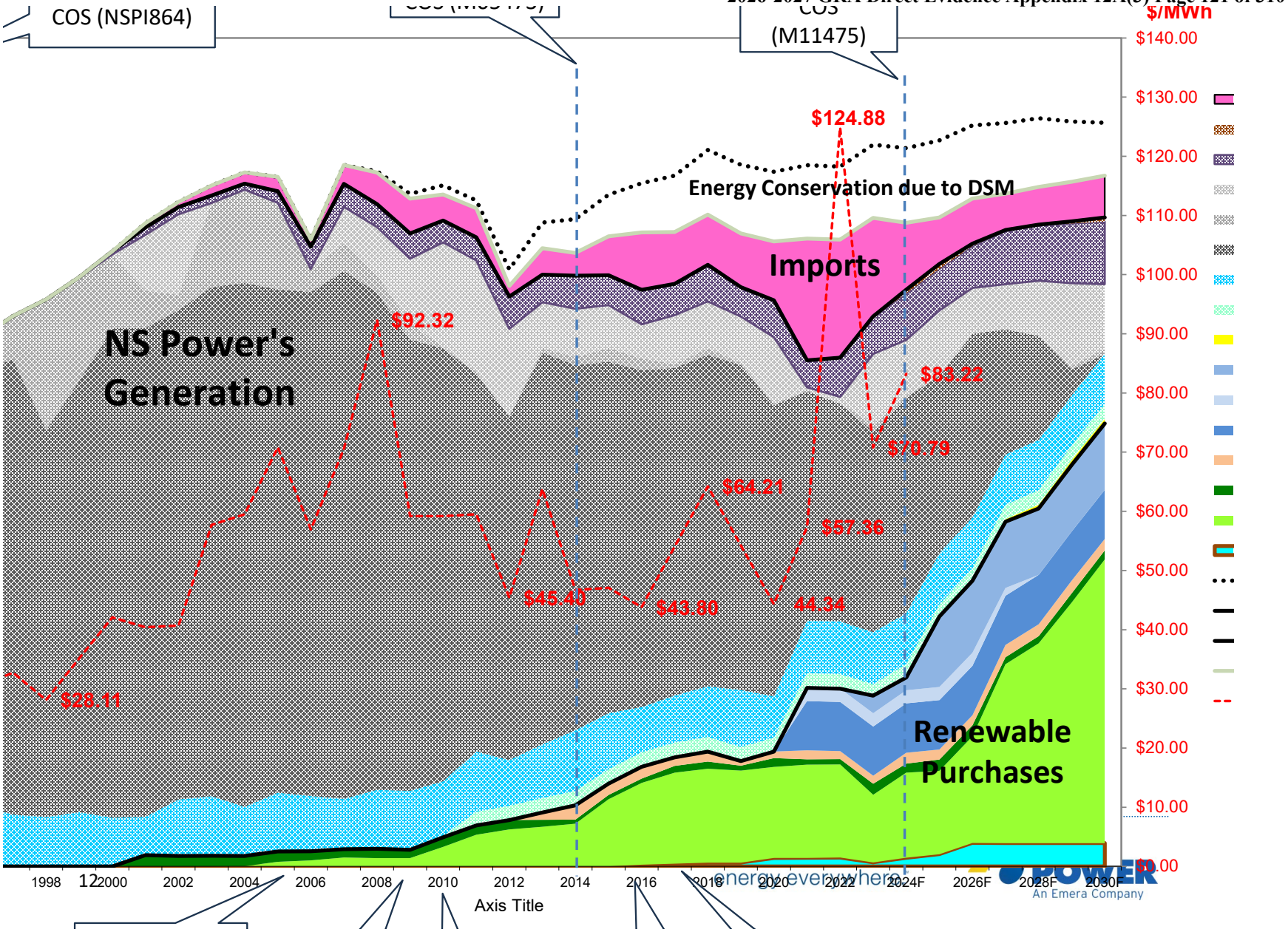
In response to changing operating environment NS Power proposed various refinements to the COS methodology for stakeholders' review and Board's approval in GRA and Base Cost of Fuel (BCF) proceedings.

- Various types of new generation were added in GRA proceedings as needed
- Fuel Cost allocation was separated from the mainstream COSS Implementation to facilitate FAM administration through separate FAM Rider and BCF proceedings.
  - Costing treatment of ML was adopted for use through stakeholder consultations arising from the Stakeholder Agreement in the 2017-2019 Fuel Stability Plan (M07348). (See "COS Classification of the ML" Strawman Report from 01/06/2017)
  - Costing treatment of wind generation, classified based on the ELCC factors, was discussed during the 2016 and 2017-2019 BCF proceedings.
- Incorporation of costing of open market services into COSS was discussed in the 2016 RtR and 2012 BUTU amendment proceedings. (See NSUARB IR-01, Multeese DR-30 from M06214)
- Further in the 2022-2024 GRA NS Power proposed .
  - Costing treatment of retired or retrofitted coal-fired gen, such as Lingan and
  - Change to Interruptible Credit for generation capacity

Challenges lying ahead

- The pace of changes in NS Power's generation and power purchase mix is about to accelerate in the coming years.
  - The share of NSPI owned generation in total system energy requirement will continue to decline falling below 30% by 2030 due to
    - New renewable generation being provided by independent power producers
    - customer transition to open markets and
    - growth in self-generation.
  - The share of fossil fuel gen, all of which is owned by NSPI, will go down from current about 50% to less than 25%.
  - Some of the coal-fired baseload plant will be shut down while others will be converted to alternate fuel such as natural gas or HFO or will transition, following capital refurbishments, to serve seasonal or intermediate load.
  - In parallel the share of non-dispatchable renewable generation to total system requirement will approach 50%.
  - As a result of the above changes, under the current classification methodology the share of overall generation costs classified to energy will likely go up causing a redistribution of apportioned generation costs from low to high load factor rate classes. (The transitioning non-fuel costs to energy will be partially offset by disappearing energy-related fuel costs).


995 Generic
OS (NSPI864)
1995 Generic
COS (NSPI864)
2024 Generic
COS
(M11475)
Marginal
Cost
$/MWh
$140
$130
$120
$110
$100
$90
$80
$70
$60
$50
$40
$30
$20
$10
$0
Energy Conservation due to DSM
$124.88
$92.32
$83.22
$70.79
$54.23
$45.40
$43.80
44.34
$40.42
$28.11
Line
Exp
Mur
GWI
Indu
Indu
Gen
Res
Unn
Ope
TSR
MC
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
2022
2024F
2026F
2028F
2030F
Wholesale
FAM
RTR

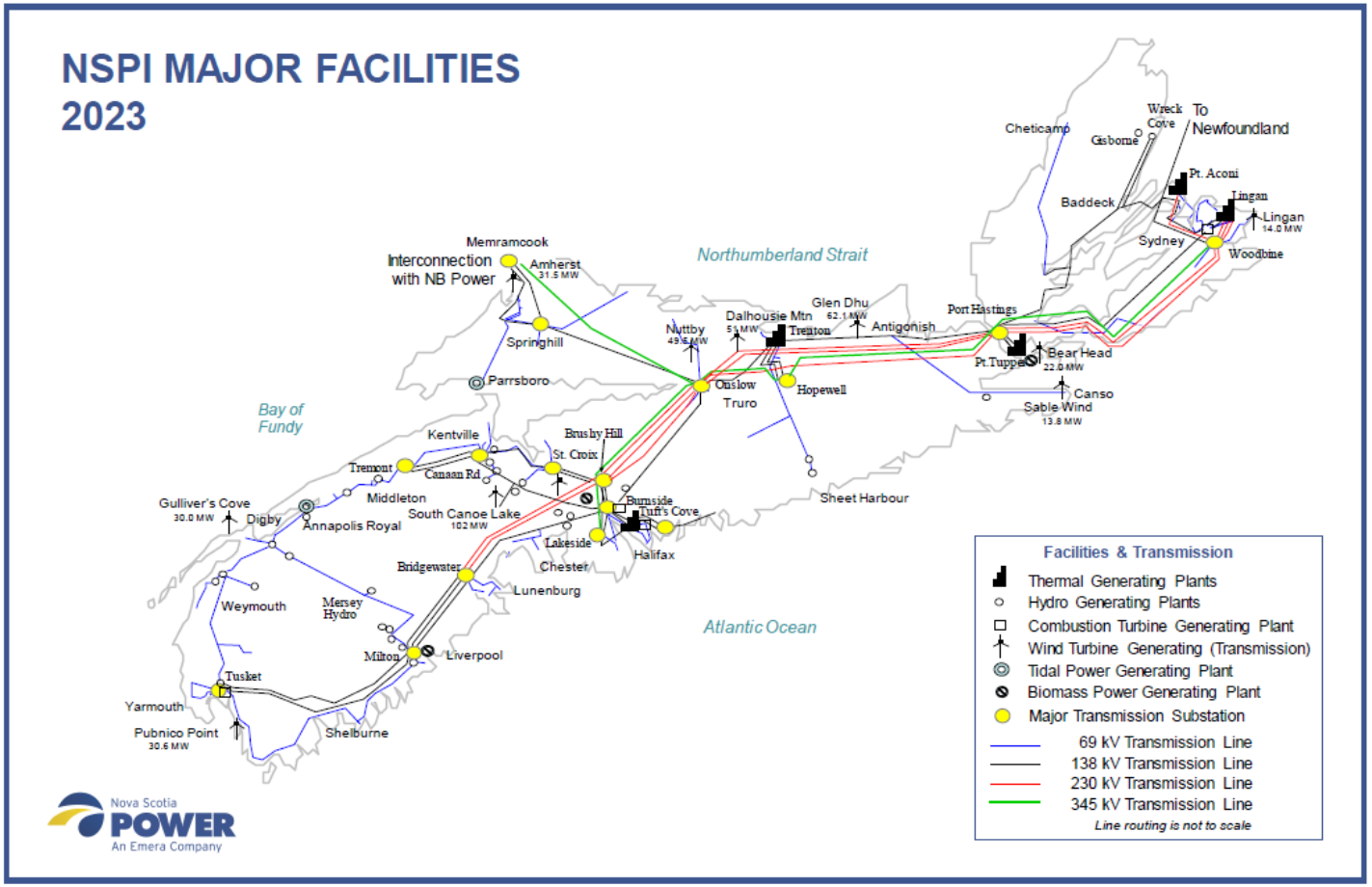

COS (NSPI864)
COS (M11475)
$/MWh
$140.00
$130.00
$120.00
$110.00
$100.00
$90.00
$80.00
$70.00
$60.00
$50.00
$40.00
$30.00
$20.00
$10.00
$0.00
$124.88
Energy Conservation due to DSM
Imports
NS Power's Generation
$92.32
$83.22
$70.79
$64.21
$57.36
$45.40
$43.80
44.34
$28.11
Renewable Purchases
1998
12
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
2022
2024F
2026F
2028F
2030F
Axis Title
energy everywhere
POWER
An Emera Company

Discussion

- Material changes in operating environment require reviews of costing methodology to ensure proper alignment with cost causation and asset utilization.
- It is also important to be mindful of established ratemaking principles, some of which also apply to the COS design such as simplicity, understandability, public acceptability, feasibility of application, rate stability and fairness but are often in conflict with one another. Therefore, it is important to seek right balance among these competing objectives.
- Historically, changes to the costing methodology have been developed over time in response to changes in operating environment.
- It is possible that support for continued application of the current SLF method will weaken in future years as the current steam baseload units will no longer be operated as such but rather will serve intermediate or seasonal load.
- It is generally desirable to proceed cautiously by implementing simple but creative solutions within the current COS framework.
  - The SLF method has been perceived by rate personal of NSPI, the regulator and some stakeholders as an elegant and simple method which succeeded in providing similar results to more complex EP method.
  - The hourly cost allocation methods, such as LOLP Production Cost Method, Probability Dispatch Method require significant amount of data and analytical resources to implement. (NARUC p. 62). There are similar challenges present in marginal costing methodologies which require production costing models to simulate the effect of a change in customer usage on the utility system production costs.

Classification of Transmission

NS Power's Transmission System



Why is Transmission classified on SLF?

- On pages 20 and 23 of its 1995 COS Decision (NSPI864) the UARB provided as follows.

> Regarding transmission line rate-base assets, it is the Board's opinion that these assets cannot be totally separated from generation; i.e., whatever causal effects there are in generation also apply to transmission. It is the opinion of the Board that the identification of specific lines as "coal by wire" is too subjective for a cost of service study and for this reason should be rejected. The Board's decision is that the portion of transmission applicable to energy will be determined by the energy proportion of total generation rate-base assets.
>
> The Board is of the opinion that classification of the cost of service should reflect to some extent the intent of the asset and therefore fixed costs will have both energy and demand related portions. The Board directs that (i) all generation costs associated with environmental compliance and fuel conversion are to be classified as energy related; (ii) annual fixed costs associated with steam and hydro generation plant· rate base assets are to be classified to energy on the basis of annual system load factor; (iii) the remaining costs are to be classified as demand related; and (iv) the portion of transmission fixed costs classified as energy related is to be determined by the annual system load factor.

NS Power's Position on classification of Transmission in past COS Proceedings

- In its 1993 COS Application (NSPI864) NS Power proposed unbundling of transmission from production costs and classifying it 100% to demand cost allocated to rate classes on the basis of 3CP.
  - The Board agreed to separate transmission from generation but ordered that it be classified to both demand and energy on the SLF.
- In its 2013 COS Application (M05473) NS Power proposed that transmission be classified 100% to demand and allocated to rate classes on the basis of 12CP using the following arguments.
  - The transmission costs are driven by the capacity of the transmission wire conductors as its costs are primarily a function of the physical size of the conductor.
  - The partially radial nature of NS Power's transmission system, designed to bring cheap energy from coal-fired generation in Cape Breton to the centers of consumption in Halifax, is gradually being eroded by a network type of transmission system design connecting randomly dispersed diverse sources of generation in some proximity of centers of consumption.
  - The proposed changes would align classification of transmission costs between OATT and COSS.
  - Also, the 12CP-based allocation would recognize some presence of energy-cost causation on NS Power's system driven by 3CP winter peak demands.
  - The classification of transmission costs to energy and demand is rather uncommon in the electric industry

Questions


GridStrategies
Application of MidAmerican's COSS Approach to Nova Scotia Power
John D. Wilson
April 10, 2024

Need for new cost of service methods for generation and transmission

Current Practice: Generation and Transmission Costs are Classified to Energy and Demand …

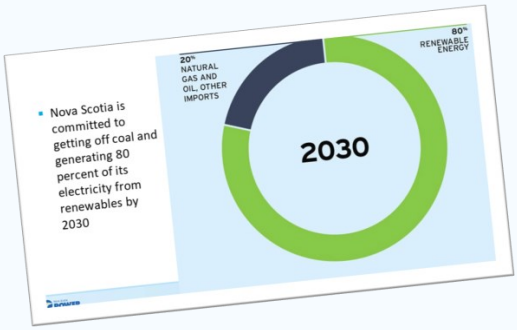
- **Baseload generation:** Environmental capital and a portion of plant (System load factor ~50%) classified as energy, remainder to demand
- **Peaking generation:** Classified as 100% demand-related
- **Wind generation:** Conceptually, the ELCC value is used to determine demand-related percentage, rest to energy

… Then Allocated to Customer Classes:

- **Energy-related costs**: Uniformly across all MWh
- **Demand-related costs:** Uniformly based on class demand during peak hour in December, January, and February

What's Changing?

- Growing role of wind resources on NSP system
- Transmission not just about reliability, but also contributes to capacity value (resource adequacy)



GridStrategies

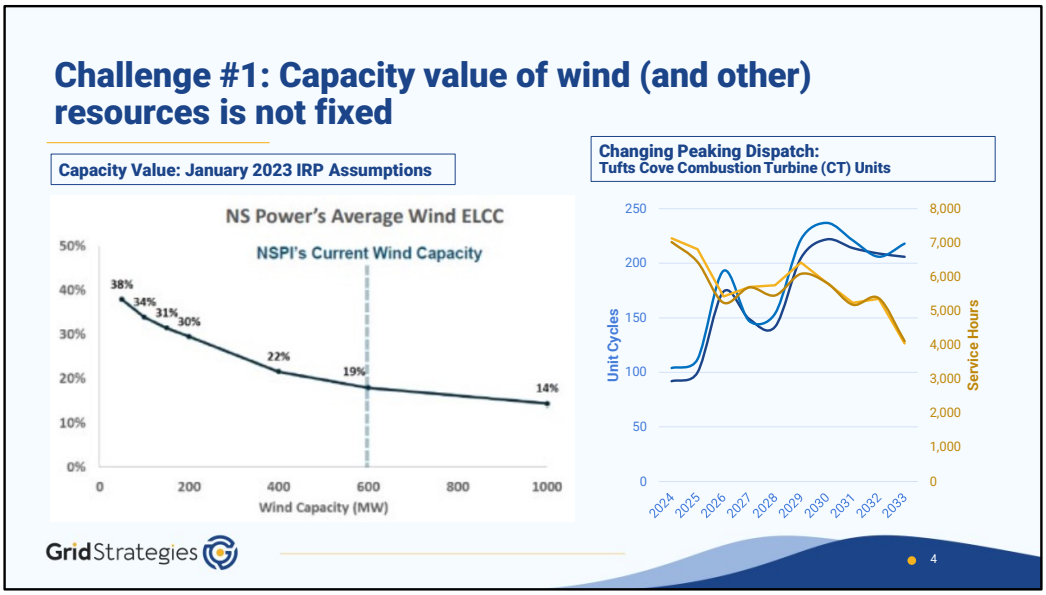
2

Overview

- Challenge #1: Capacity value of wind (and other) resources is not fixed
- Challenge #2: Peak Events ≠ Reliability Events
- MidAmerican's Hourly Costing Model (HCM) Method
- Why the HCM Method hasn't been widely adopted
- Improving and adapting the HCM Method to NS Power
- Outcome #1: Fairness in class allocation
- Outcome #2: Connecting rates to future energy arbitrage opportunities
- Outcome #3: Cost-based time-varying pricing

GridStrategies

3



Role of resources will change as resource mix changes

- Capacity value (ELCC) will drop as more wind is deployed

Capacity value is a key concept for both resource planning and for functionalizing generation costs

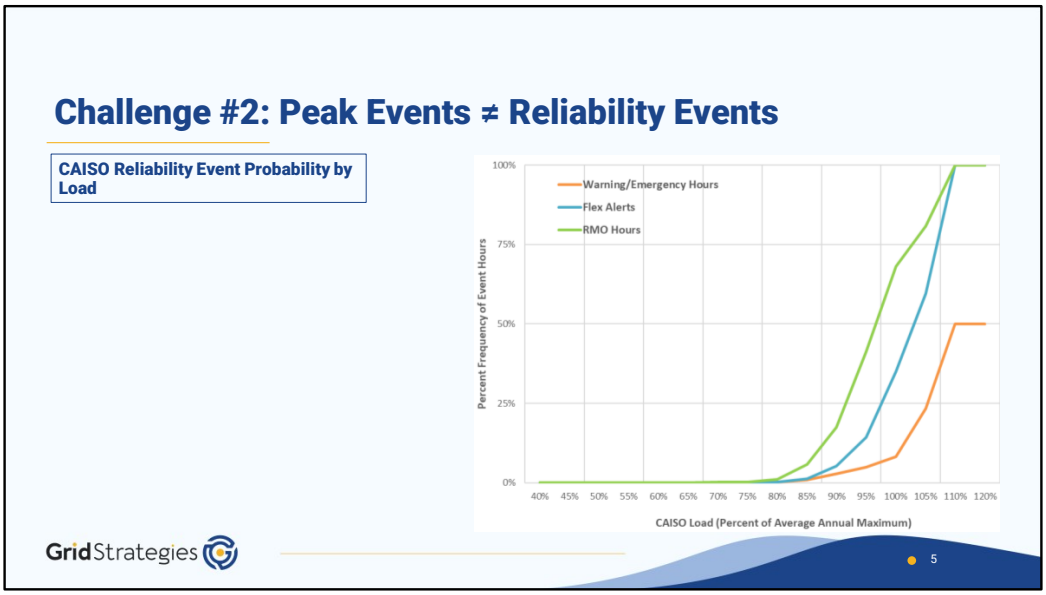
- In COSS, as the average capacity value of resources on the system decreases, costs are shifted from demand to energy
- In resource planning, the capacity value of resources depends on changing climate, availability of gas for delivery, and interactions such as battery/wind

Equivalent peaker method will become increasingly challenging

- Not currently used in Nova Scotia, but the concept of valuing capacity at the cost of a peaker unit is widely applied
- Equivalent peaker method values capacity at the cost of a natural gas peaking plant (combustion turbine, usually)
- California uses battery storage cost, but as it has services beyond "capacity" it is harder to use

Battery storage proposed to be functionalized as a transmission resource

- Battery storage provides both generation and transmission services
- Battery storage consumes energy (similar to transmission losses)



Theory: Build Capacity to Peak Demand → Reliability

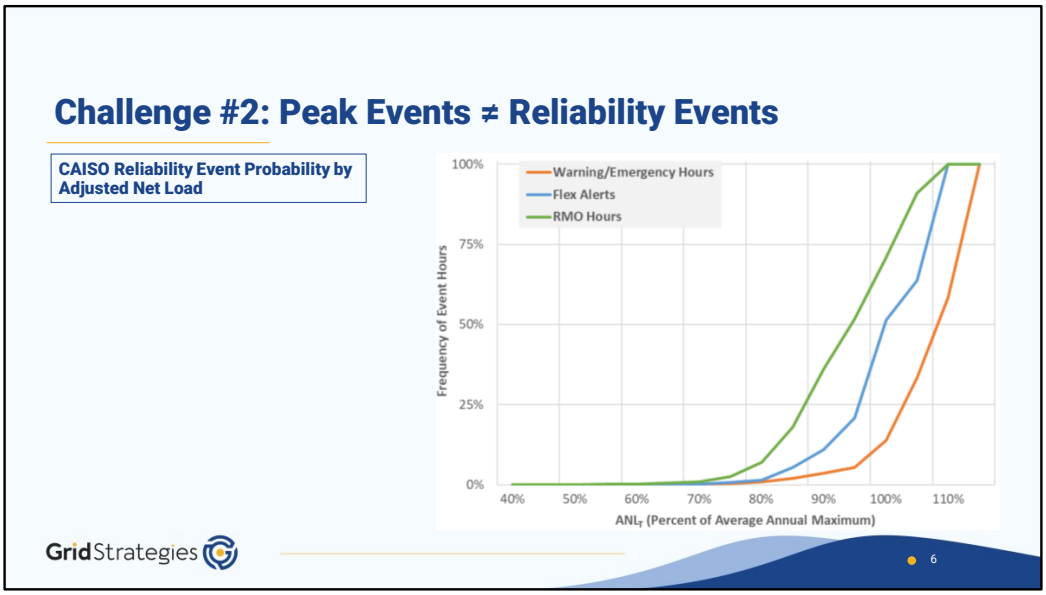
- Resource planning targets a planning reserve margin at a target level of reliability
- Allocation of capacity costs to demand is based on coincident peak

Reality: Grid Stress Occurs Below Peak Demand

- Reliability events occur during hours where loads are not at peak
- Conversely, reliability events don't always occur when loads are at peak

A Twist: Grid Stress Costs Occur Based on Forecasts

- CAISO restricts maintenance operations when grid stress is forecast; idled crews affect schedules and costs



Theory: Build Capacity to Peak Demand → Reliability

- Resource planning targets a planning reserve margin at a target level of reliability
- Allocation of capacity costs to demand is based on coincident peak

Reality: Grid Stress Occurs Below Peak Demand

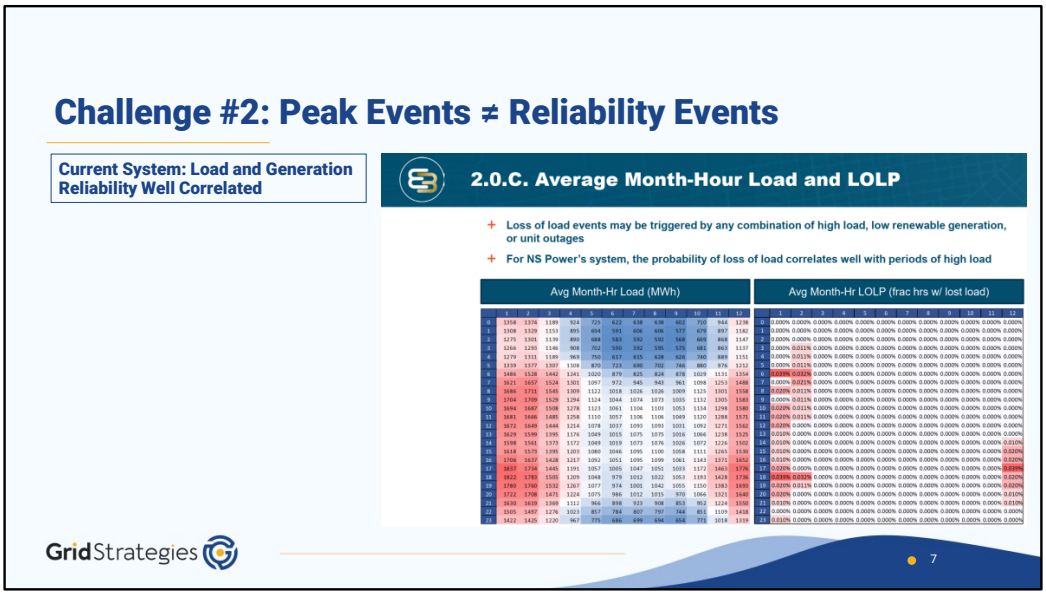
- Reliability events occur during hours where loads are not at peak
- Conversely, reliability events don't always occur when loads are at peak

A Twist: Grid Stress Costs Occur Based on Forecasts

- CAISO restricts maintenance operations when grid stress is forecast; idled crews affect schedules and costs

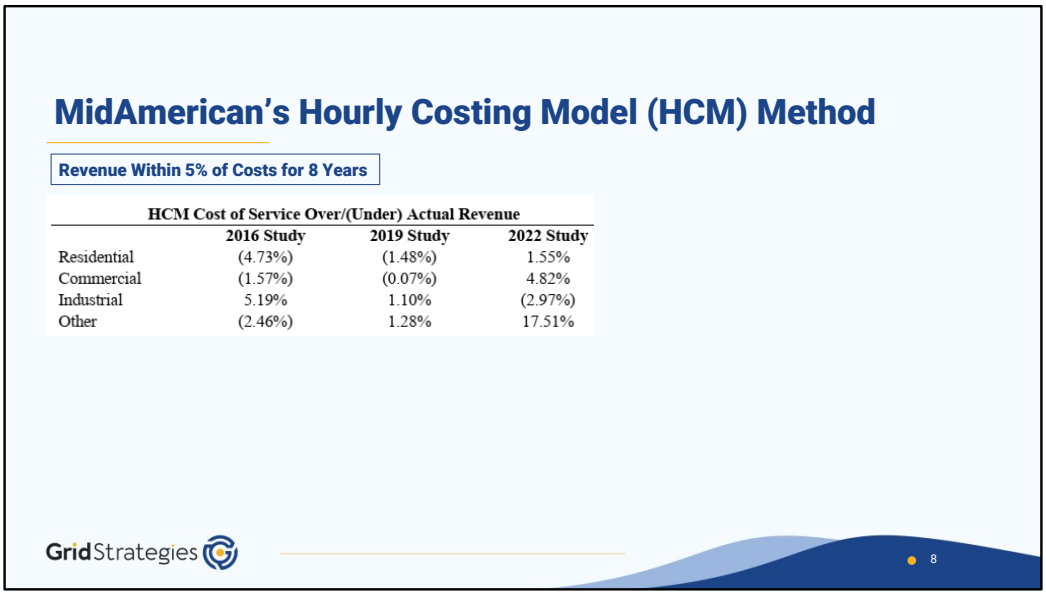
Another Twist: *Adjusted* Net Load is a Better Metric for Reliability

- Another problem with thinking of demand as the cause of capacity requirements is that other factors (solar, wind, imports) affect reliability
- NS Power has adopted net load planning practices



Current System: Load and Generation Reliability are Well Correlated

Future System: Evidence from High-Renewable Systems Suggests Lower Correlation



MidAmerican developed the HCM because wind generation came to represent about half of generation costs

- The Iowa Board approved the switch to the HCM in 2014, noting that "wind power has not been a significant source of generation in any of the previous rate cases before the Board."
- *Premise*: "All customers who consume energy in the same hour, regardless of class, should pay the same rate for such energy."
- The HCM method is "both a cost allocation model and pricing model, which provides consistency between cost allocation and pricing."

HCM has been used for about a decade in Iowa and Illinois

- In 2020, the Iowa Board found that the HCM "continues to produce stable, just, and reasonable rates." A 2023 compliance filing continued to show stability and reasonableness, and was not contested by any party.

How the HCM Method works

Hourly cost of generation

Each class is assigned responsibility for generation costs by applying the class hourly load profile to the hourly generation price profile

- Class Cost Responsibility = Load x Price

$$\sum_{h=1}^{8760} L_h * Ph$$

- Class Rate = Class Cost Responsibility / Retail Sales
- Class Rate can easily be differentiated by season, TOU period, or peak event

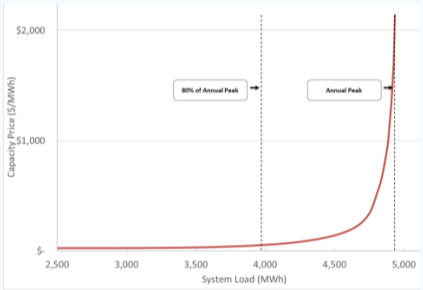
Hourly generation price component

- Adjusted MISO LMP (Locational Marginal Price)
  - Adjustment: Total Energy Costs Recovered = Retail Fuel Costs

Hourly capacity price component

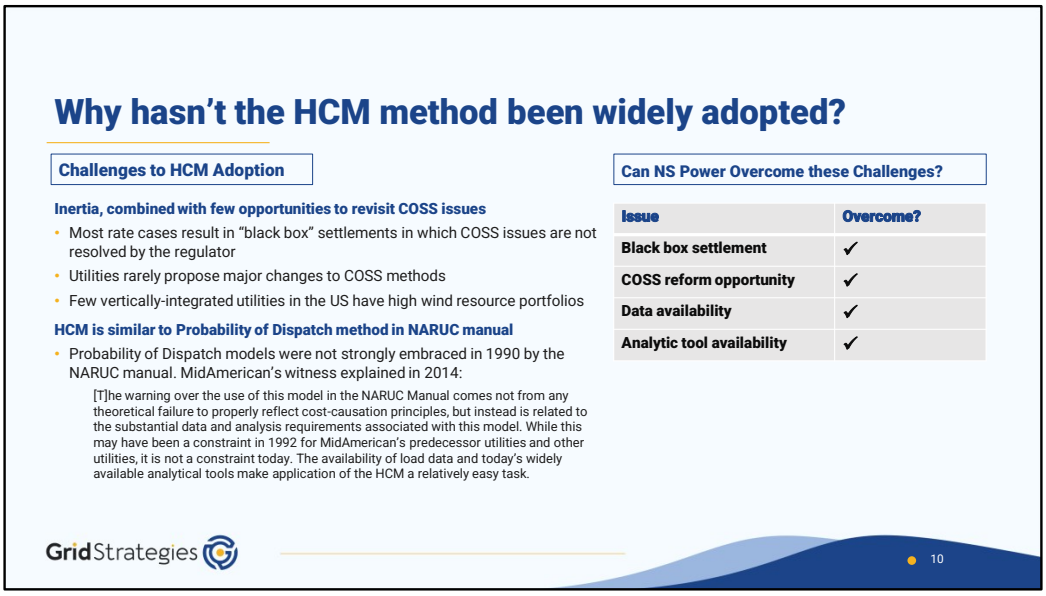
- Total generation costs allocated to hours based on system load, as shown

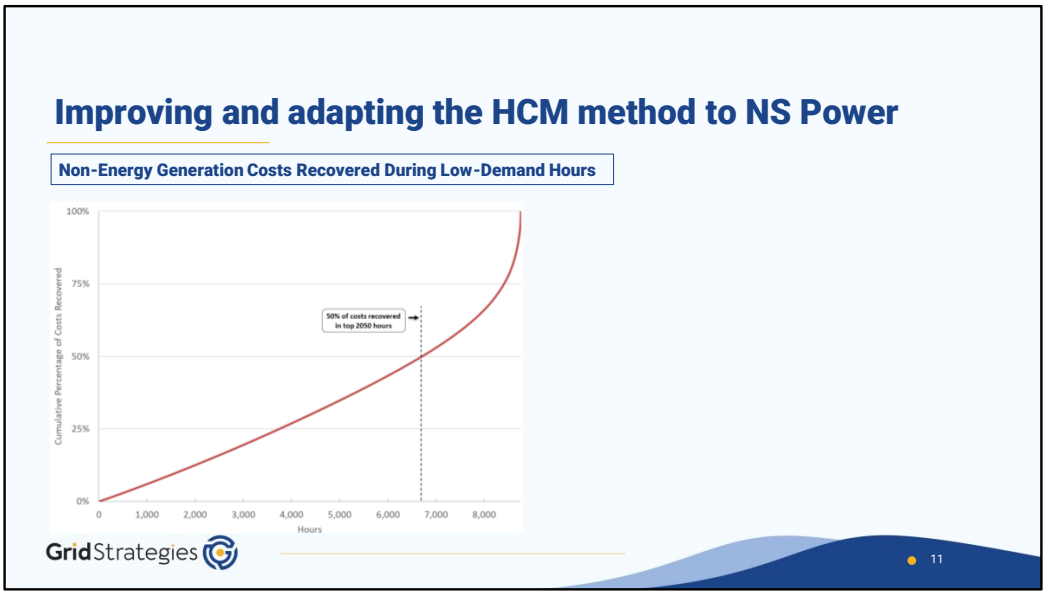
Hourly Capacity Price (MidAmerican, 2022)



GridStrategies

9


Why hasn't the HCM method been widely adopted?
Challenges to HCM Adoption
Inertia, combined with few opportunities to revisit COSS issues
Most rate cases result in "black box" settlements in which COSS issues are not resolved by the regulator
Utilities rarely propose major changes to COSS methods
Few vertically-integrated utilities in the US have high wind resource portfolios
HCM is similar to Probability of Dispatch method in NARUC manual
Probability of Dispatch models were not strongly embraced in 1990 by the NARUC manual. MidAmerican's witness explained in 2014:
[T]he warning over the use of this model in the NARUC Manual comes not from any theoretical failure to properly reflect cost-causation principles, but instead is related to the substantial data and analysis requirements associated with this model. While this may have been a constraint in 1992 for MidAmerican's predecessor utilities and other utilities, it is not a constraint today. The availability of load data and today's widely available analytical tools make application of the HCM a relatively easy task.
Can NS Power Overcome these Challenges?
Issue
Overcome?
Black box settlement
✓
COSS reform opportunity
✓
Data availability
✓
Analytic tool availability
✓
GridStrategies
10



MidAmerican collects a substantial portion of non-energy generation costs during low-demand hours

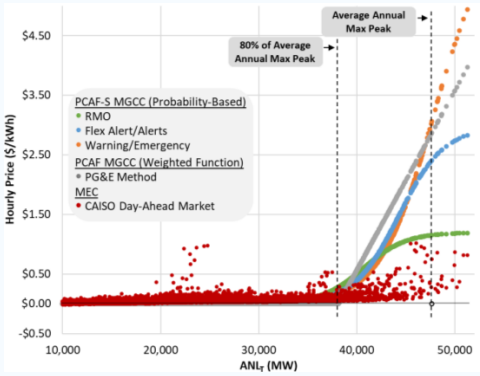
- This is not consistent with cost-causation principles

MidAmerican doesn't collect transmission costs using HCM method

- Cost-causation for generation and transmission are closely aligned

Improving and adapting the HCM method to NS Power

California Generation Cost Recovery Method

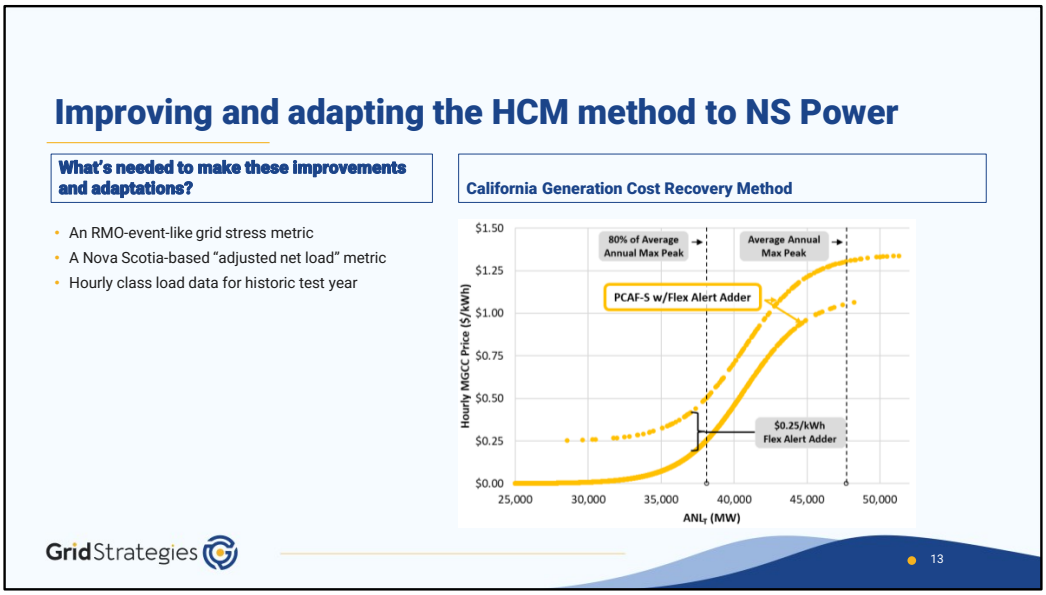


GridStrategies

12

Instead of MidAmerican's exponential function, use California's probability-based curve

- Sigmoidal (s-shaped) logistic regression
- California selected RMO event probability as the basis for the curve



Retain System Load Factor (SLF) method for allocating legacy generation resource costs to energy

- Existing coal and combined cycle unit costs split between capacity and energy
- All thermal unit energy costs (not fuel, but also including VOM) allocated equally on an hourly generation basis
- All other generation and transmission capacity costs allocated using modified HCM method
- All fuel and purchased power allocated to energy using HCM method
- *Premise*: "All customers who consume energy in the same hour, regardless of class, should pay the same rate for such energy."

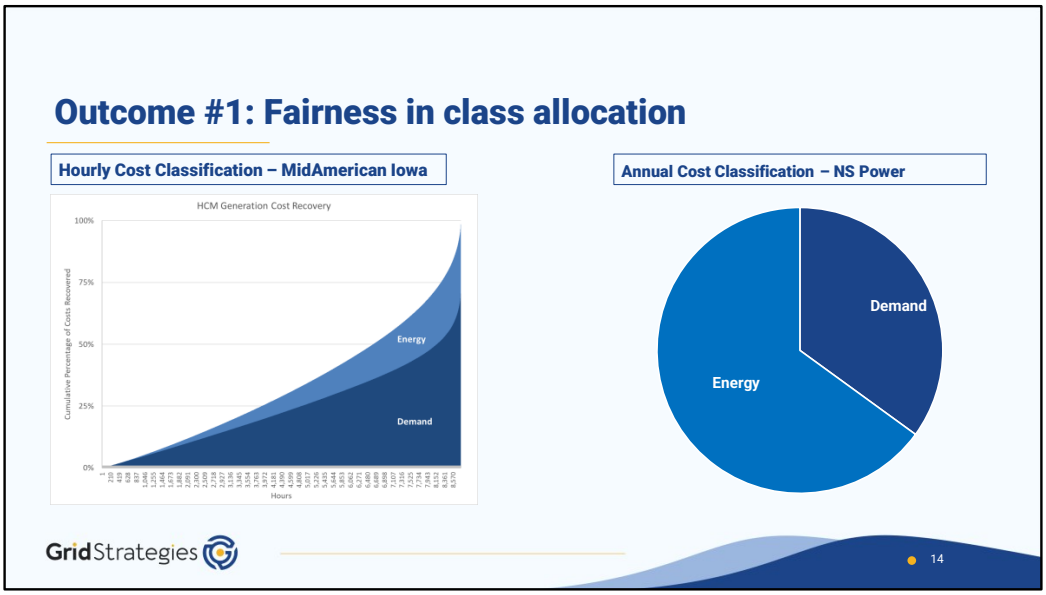
Instead of MidAmerican's exponential function, use California's probability-based curve

- Sigmoidal (s-shaped) logistic regression
- California selected RMO event probability as the basis for the curve
- Also incorporated a flex-alert "adder"

Instead of collecting generation costs, collect generation and transmission costs

- California couldn't use this method for transmission costs due to federal

jurisdiction

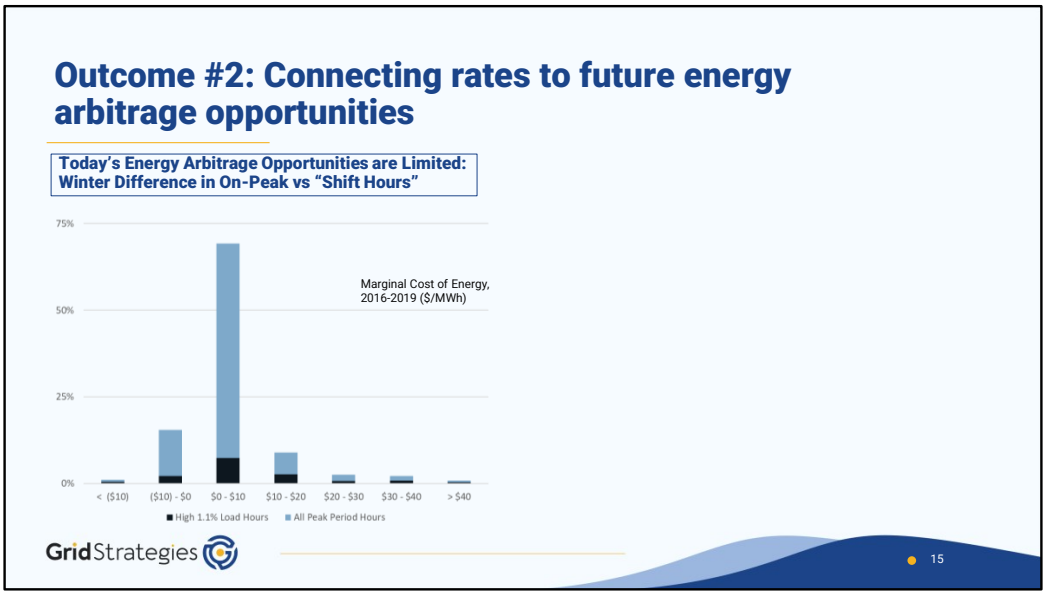


Cost-causation for "demand-related" costs includes non-demand elements

- Excess fossil generator capacity should be retired as quickly as replacement built in present circumstances (avoiding fixed O&M costs)
- Transmission system built to address supply-related contingencies

Outcome: Avoiding the challenge of evaluating technology performance to classify costs to demand

- Classification of new resources is imprecise and not fixed over time
- Generation and transmission are no longer built to satisfy demand in a single peak hour (or 3 peak hours)
- Widely-used peaker method will become impractical
- HCM Method classifies non-fuel costs based on delivery during grid stress events



Energy arbitrage is the opportunity to shift load to lower-priced hours

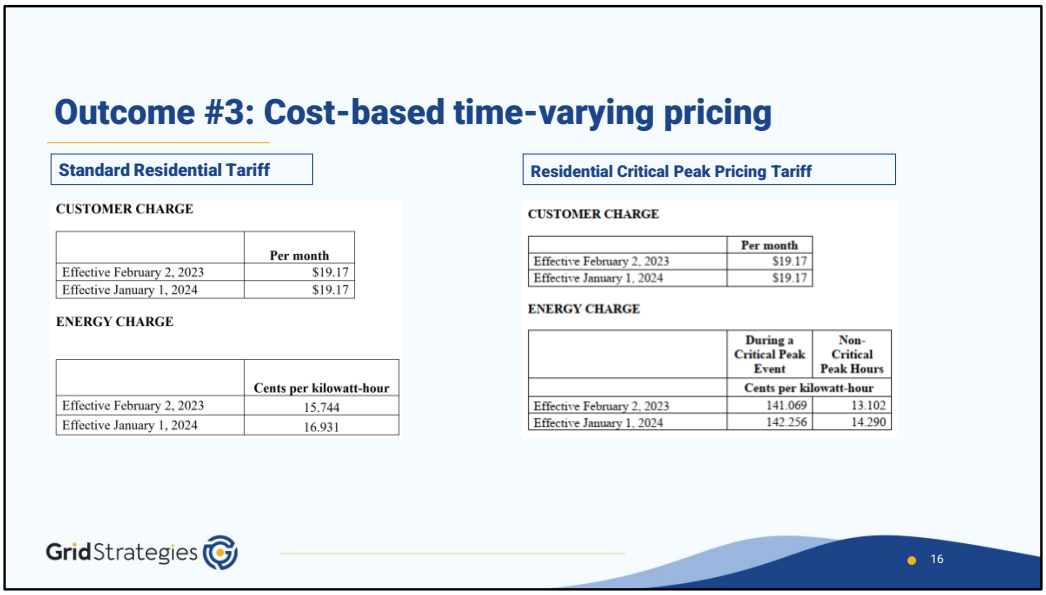
- Currently, shifting demand from a 4-hour peak period to the surrounding four hours rarely saves much cost because marginal costs don't change much
- Battery storage and time-varying pricing are tools to take advantage of cost differences

Future generation will increase energy arbitrage opportunities

- Avoiding curtailment by shifting demand from low-output to high-output periods
- Using battery storage to deliver energy at a different time – but with an energy loss

Soon, there will be periods where most resources have near-zero dispatch cost

- Does it make sense to allocate energy at a uniform cost when the hourly cost can be nearly zero at times?



Outcome #3: Cost-based time-varying pricing

Standard Residential Tariff

CUSTOMER CHARGE

	Per month
Effective February 2, 2023	$19.17
Effective January 1, 2024	$19.17

ENERGY CHARGE

	Cents per kilowatt-hour
Effective February 2, 2023	15.744
Effective January 1, 2024	16.931

Residential Critical Peak Pricing Tariff

CUSTOMER CHARGE

	Per month
Effective February 2, 2023	$19.17
Effective January 1, 2024	$19.17

ENERGY CHARGE

	During a Critical Peak Event	Non-Critical Peak Hours
	Cents per kilowatt-hour	
Effective February 2, 2023	141.069	13.102
Effective January 1, 2024	142.256	14.290

GridStrategies

16

The current time-varying pricing rates are "revenue-neutral"

- The Critical Peak Price is not designed to recover average hourly costs
- *Marginal* (not average) costs are used in NS Power's time-varying rate design
- Instead, the rates are designed to ensure that an average customer pays the same costs for the same usage pattern if there is no change in behavior
- While charging higher rates during high marginal cost periods should drive down fuel costs, this approach to rate design results in "strategic winners and losers"

System Load Factor method is annual, can't classify or allocate costs by hour

Designing time-varying rates to be cost-based

- Cost-based rates result in cost-neutral rates
- Same effect on behavior (reduced fuel costs during peak periods), but now the "strategic winners and losers" are paying their fair share

Grid Strategies

Comments on NB Power COSS Filings

Prepared for the NS Power COSS Stakeholder Consultation (M11475)

April 11, 2024

John D. Wilson, Grid Strategies LLC

1. Purpose

During the April 10, 2024 session, comments were made that referenced the Probability of Dispatch (POD) method analyzed in the New Brunswick Power Class Cost Allocation Study (Matter 554).

NB Power's findings are that the POD method analyzed would result in a slightly higher revenue requirement for residential customers than for other customers. NB Power's analysis of the POD method is described in NB Power's evidence (Exh. NBP5.02) and E3's report (Exh. NBP2.03), with workbooks analyzing the POD method under several scenarios, such as current classes for 2023-2024 (Exh. NBP5.08).

Table 2.5.1

NB Power Corporation
Revenue-to-Cost Ratio Results for 2023/24 Current Rate Classes
Fiscal Years Ending March 31
(in millions $)

		(1) Current Decision Model	(2) Average and Peak	(3) Average and Peak with TOU	(4) Probability of Dispatch	(5) Marginal Cost
(1)	Residential	0.951	0.939	0.920	0.964	0.927
(2)	General Service	1.120	1.113	1.146	1.126	1.135
(3)	General Service I	1.164	1.132	1.162	1.119	1.145
(4)	General Service II	1.009	1.062	1.101	1.150	1.107
(5)	Small Industrial	1.260	1.256	1.315	1.230	1.295
(6)	Large Industrial	0.973	1.006	1.034	0.943	1.020
(7)	Streetlights & Unmetered	1.305	1.382	1.359	1.301	1.383
(8)	Wholesale	0.978	0.973	0.952	0.979	0.958
(9)	**Total/Overall**	**1.000**	**1.000**	**1.000**	**1.000**	**1.000**

Note to reader: Financial tables reflect differences due to rounding.

This memo reviews the similarities and differences between the POD method and the MidAmerican Hourly Cost Model (HCM) method.

2. Definition of POD Method

The NB Power evidence defines the POD method as allocating "the energy classified costs by looking at the cost of providing energy in each hour instead of assuming that each kilowatt-hour served throughout the year is the same cost," and:

> [demand classified] costs are classified and allocated based on the hourly dispatch, or probability of dispatch, as opposed to being separated between demand and energy. It is arguable that this method allocate costs more accurately by assigning costs of specific resources directly to the classes that use their output energy. This method looks at how the resources are used and not why the investment was made (e.g. operational reserves). This method has similar high data needs as well as data limitations and confidentiality implications as the average and peak with TOU as it relates to the hourly generation data and LOLP. Considerable time will be required to make the necessary internal process changes to fully implement this methodology on an annual basis. (Exh. NBP5.02, pp. 7-8)

E3 provides a more specific explanation of the calculation, stating "The fixed costs of each resource are allocated to all hours when the resource is generating energy in proportion to the production of that hour."

E3 identifies at least two potential improvements. First, "Operating reserves were not included in this analysis however, it would be appropriate to include them in future analysis in addition to generation energy to allocate fixed costs of each resource." Second, "the generator dispatch data … includes dispatch for exports and interruptible load. … the fixed costs of generators dispatched for exports and interruptible loads are being assigned to customer classes … It would be more appropriate to exclude generator dispatch for exports and interruptible loads." (Exh. NBP2.03)

3. Application of POD Method

The NB Power POD method analysis assigns generation capacity (non-fuel) costs equally to all hours in which they are used. (Exh. NBP2.03, p. 15) The cost-of-service workbook provided by NB Power does not include supporting calculations. The class cost share is multiplied by the total revenue requirement to determine the class revenue requirement. (Exh. NBP5.08, tab Input, rows 484-498)

Based on the provided definitions and a comparison of the POD method factors with the variable energy method factors included in an Average and Energy method workbook, it appears that the POD method is almost identical to a class energy allocation. These two methods appear to approximately equal retail sales grossed up for line losses, although it is not possible to verify this from the workbook. (Exhs. NBP5.08, NBP5.06)

Customer Class	Prob. Of Dispatch	Variable Energy
Residential	44.69%	44.94%
	-	-
General Service	-	-
General Service I Primary Distribution	5.70%	5.66%
General Service I Secondary Distribution	8.55%	8.50%
General Service II Primary Distribution	2.38%	2.40%

General Service II Secondary Distribution	1.59%	1.60%
	-	-
Small Industrial	-	-
Small Industrial Transmission	0.14%	0.14%
Small Industrial Primary Distribution	2.42%	2.41%
Small Industrial Secondary Distribution	1.04%	1.03%
Large Industrial	-	-
Large Industrial Distribution	2.51%	2.48%
	-	-
Street Lights & Unmetered	-	-
Street Lights	0.20%	0.20%
Unmetered	0.28%	0.28%
Distribution Sales Total	**69.52%**	**69.65%**
	-	-
Transmission	-	-
Large Industrial Transmission	20.27%	20.08%
Interruptible/Surplus		
LIREPP	1.90%	1.88%
Wholesale Sales	8.31%	8.39%
	-	
Transmission & Wholesale Total	**30.48%**	**30.35%**
Total MWh	**100.0%**	**100.0%**

4. Is the POD Method Equivalent to the HCM Method?

No, it appears that there are significant differences between the POD and HCM methods. The most important difference is between the two generation cost methods. Because of this difference, the POD method cannot be viewed as a proxy for the HCM method, either as used by MidAmerican or an improved and adapted method for NS Power.

A. Energy (Fuel) Costs

There is at least one substantial difference between the POD and HCM methods for allocating fuel costs. NB Power's POD method uses "forward-looking dispatch and costs of individual generators," while MidAmerican's HCM method uses historical test year dispatch and an hourly-LMP allocation of system fuel costs.

Based on the written definition of NB Power's method, the calculation itself appears to be equivalent to the HCM method. However, NB Power's Exhibits do not include workpapers supporting its calculation of hourly fuel costs and the allocation of those costs to customer classes, so this cannot be verified.

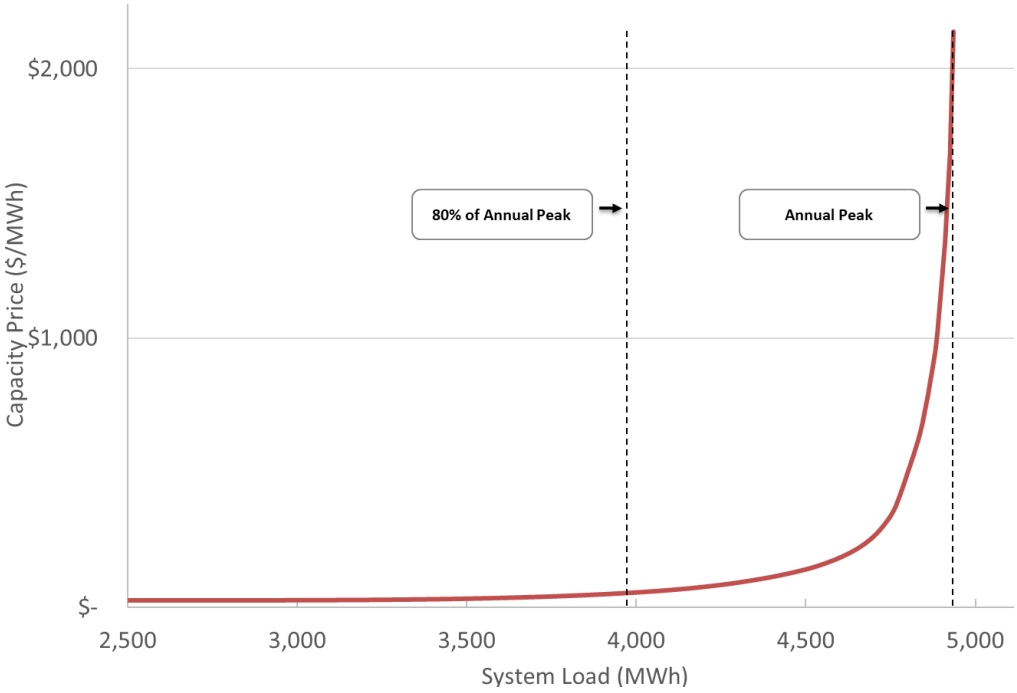
Assuming that the forecast dispatch and costs are reasonable, there does not appear to be a fundamental difference between the two methods. The POD method is challenged by the complexity of

using forecast data while the HCM method is challenged for application to NS Power by the lack of hourly LMP data – NS Power would need to calculate hourly generation costs using fuel cost, purchased power costs, and other dispatch cost inputs.

B. Generation (Capacity or Demand) Costs

The POD and HCM method use substantially different methods for allocating the generation revenue requirement. The POD method allocates these costs equally to each MWh generated, although exactly how this is done is not included in NB Power's exhibits.

In contrast, the HCM method allocates generation costs mostly to high-load hours, as shown below. As discussed in my presentation on improving and adapting this method for NS Power, an s-shaped cost allocation curve is likely to be more representative of grid stress events and more suitable for direct application in support of time-varying rate design.



than some of the other methods but may be less aligned with intra-hour cost-causation by assuming every kilowatt-hour in the year has the same cost. The improvements to this methodology could be easily implemented by NB Power, and this method has no new confidentiality or data requirements.

2.2 Average and Peak with Time of Use (TOU) Method

The average and peak with time of use method increases the granularity of the data used in allocation of the energy classified costs by looking at the cost of providing energy in each hour instead of assuming that each kilowatt-hour served throughout the year is the same cost. Peak demand classified costs of generation are allocated based on the loss of load probability (LOLP), which drives the need for capacity resources. This is better aligned with cost-causation principles than the previously discussed average and peak method. This method does have additional data requirements, including the LOLP, that are not currently built into NB Power's software and processes to provide on an annual basis. The hourly generation cost data also currently has limitations and would require some process improvements to provide data that aligns well with the budget in any given year. Hourly interruptible load and costs, as well as hourly exports and costs, are examples of items that are not currently available. While these requirements are not insurmountable, they would require significant time to develop. The hourly generation and cost data also comes with confidentiality concerns and restricted access to the data would reduce the transparency of the calculations behind the energy and demand cost allocators that feed into the CCAS model.

2.3 Probability of Dispatch Method

The probability of dispatch method allocates variable production costs the same way as the average and peak with TOU method. All fixed production costs are classified and allocated based on the hourly dispatch, or probability of dispatch, as opposed to being separated between demand and energy. It is arguable that this method allocate costs more accurately by assigning costs of specific resources directly to the classes that use their output energy. This method looks at how the resources are used and not why the investment was made (e.g. operational reserves). This method has similar high data needs as well as data limitations and confidentiality implications as the average and peak with TOU as it relates to the hourly generation data and

LOLP. Considerable time will be required to make the necessary internal process changes to fully implement this methodology on an annual basis.

2.4 Marginal Cost Method

During the procedural conference of June 28, 2023, the final approved scope listed the marginal cost allocation model as optional. Marginal cost modeling has the advantage of being relatively simple to implement, but it has many disadvantages as it relates to the NB Power system and customers. As stated by E3 on pages 15 and 16 of their report (Appendix A Cost Allocation Study Methodology Options), systems are almost never in equilibrium, and: *"When not in equilibrium, marginal costs capture only the short-run marginal cost of the system and do not represent longer-term costs."* In E3's analysis, variable marginal costs are approximately double actual costs and there is a negative correlation between the two in some months. Marginal costs are more volatile and do not necessarily reflect system or dispatch costs accurately. Some hours of low or zero marginal costs will, in all actuality, be hours of high system or dispatch costs, particularly in future years as renewables increase on the system. Of the methods presented in this matter, marginal cost is the most volatile which is not aligned with the principles of stability and predictability. The scaling process to have the costs align with the revenue requirement is significant and can be subjective. Additionally, the data required to calculate the demand and energy allocators is sensitive in nature and requires the full modeling of these allocators to be filed as confidential restricted only. This significantly reduces the transparency of how the allocators are derived for use in the allocation of costs. Data requirements and confidentiality issues are further discussed in Sections 2.6 and 2.7 below. There are currently no known vertically integrated electric utilities in Canada which utilize a marginal cost methodology for their CCAS. This model was filed for information purposes but is not considered a viable option for NB Power's class cost allocation study.

Average and Peak with Time of Use Method

Like the Average and Peak method, the Average and Peak with Time of Use (TOU) method classifies all fixed generation costs to peak demand and average demand based on the system load factor (SLF).

Average demand-classified fixed costs and all fuel, variable O&M, and purchased power costs are allocated to each hour based on total dispatch cost in each hour (***Hourly Variable Cost***). Peak demand-classified fixed costs are allocated to each hour based on Loss of Load Probability (LOLP) (***Hourly LOLP***). Hourly costs are then allocated to customer classes based on the customer class load in each hour.

The dispatch costs used in this analysis include dispatch for interruptible loads. In contrast, interruptible loads are excluded from the load data. NBP assigns variable generation costs to interruptible loads in a separate calculation. In order to improve consistency, dispatch costs for interruptible loads could be removed from this analysis. However, dispatch costs excluding interruptible load are currently not available. Note that this does not mean that interruptible dispatch costs are being allocated to non-interruptible customers but rather that non-interruptible dispatch costs are being allocated non-interruptible customers in a manner that does not exclusively use non-interruptible dispatch costs.

The dispatch costs in this analysis also include dispatch for exports and resulting export revenues because that is the data that is available. This means that rate classes with load during export hours may be assigned low or even negative dispatch costs due to export revenues, even if marginal costs during those hours are high. This disconnect between dispatch and marginal costs can be seen as problematic: classes with load during low dispatch cost but high marginal cost hours are assigned lower costs, even though if load was reduced in those hours, it would contribute significantly to reducing total system costs.

Table 3: Pros and cons of Average and Peak with Time of Use method

Pros	Cons
Allocates energy classified costs proportionally to the cost of providing energy in each hour (instead of assuming every kWh of the year is the same cost). ***Allocates*** peak-demand classified costs to the hours that are driving the need for capacity resources (instead of assuming 3 peak hours are driving the need which is increasingly inaccurate as NPB adds higher penetrations of wind).	Moderate data needs (hourly dispatch costs, LOLP). Relies on average demand and 3CP to ***classify*** costs to energy and demand: • Classification to fixed and energy costs has no relationship to the underlying generation mix which may be inconsistent with the relative cost of providing energy and capacity needs.

Probability of Dispatch Method

The Probability of Dispatch method allocates fuel, variable O&M, and purchased power costs identically to the Average and Peak with Time of Use methodology.

Fixed generation costs are jointly classified and allocated based on dispatch of each generating station in each hour (***Probability of Dispatch***). The fixed costs of each resource are allocated to all hours when the resource is generating energy in proportion to the production of that hour. Operating reserves were not

included in this analysis however, it would be appropriate to include them in future analysis in addition to generation energy to allocate fixed costs of each resource. If there were planning reserve resources that did not generate energy or provide operating reserves within the year, the fixed costs of those resources would be allocated to peak LOLP hours, however there are no resources in this operating regime based on the data that was provided. Hourly costs are then allocated to customer classes based on the customer class load in each hour.

As described in the Average and Peak with Time of Use Method section, the generator dispatch data used in this analysis includes dispatch for exports and interruptible load. NBP dispatches generation for interruptible load and exports after generation for firm load. Therefore, in this analysis, the fixed costs of generators dispatched for exports and interruptible loads are being assigned to customer classes, which is not reflective of the reason for the dispatch of those generators. It would be more appropriate to exclude generator dispatch for exports and interruptible loads, however, this data is not currently available. As stated previously, this does not mean that interruptible dispatch costs are being allocated to non-interruptible customers but rather that non-interruptible dispatch costs are being allocated to non-interruptible customers in a manner that does not exclusively use non-interruptible dispatch costs. The current implementation will assign more cost to customers classes with load during hours with high amounts of exports and interruptible load and less to other classes.

Table 4: Pros and cons of Probability of Dispatch method

Pros	Cons
Removes a layer of subjectivity because it removes the need to classify overall fixed costs to energy and capacity. Potentially more accurate in assigning costs of resources to classes that use energy generated by those resources.	High data needs (LOLP, forward-looking dispatch and costs of individual generators). Does not consider the reason that investments were incurred, only the way they are currently used. Assigns the costs of generators (including fixed costs) equally to all hours in which they are used. Does not reflect that hours with high marginal cost contribute more to the rationale for investing in resources going forwards, as opposed to historical fixed costs. For instance, NBP's seasonal use of coal instead of year-round use will impart higher fixed costs onto seasonally peaking customers. May be volatile due to sensitivity to short-term changes in the system (i.e. outages, maintenance). High capital cost generators may have costs concentrated in only a few hours.

Marginal Cost Method

The Marginal Cost methodology allocates energy, capacity, and greenhouse gas (GHG) marginal costs to each customer class (***Marginal Cost***). The total marginal cost is reconciled upwards or downwards to

BRUBAKER & ASSOCIATES, INC.

COS Cost Allocation

NS POWER COS STAKEHOLDER WORKING GROUP

APRIL 29, 2024

BRUBAKER & ASSOCIATES, INC.

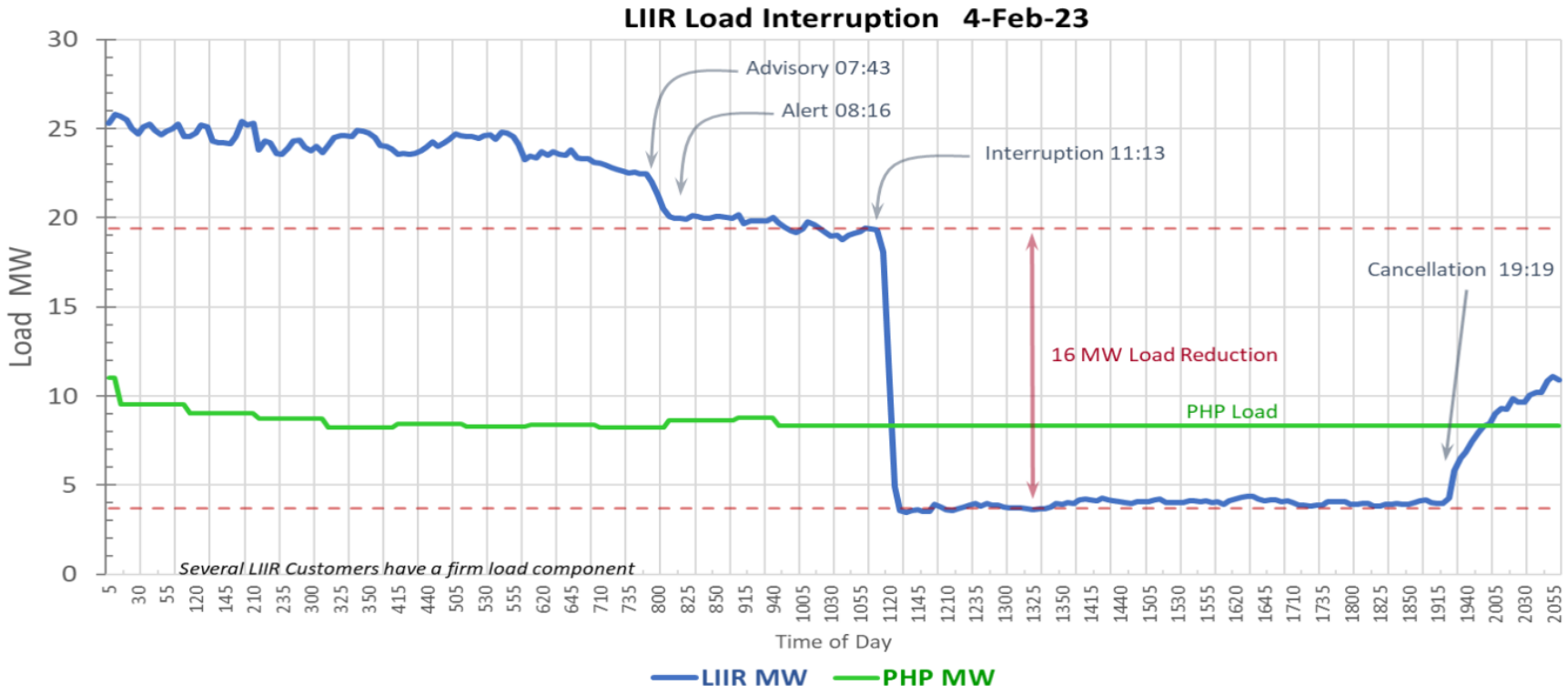
PHP and NS Power Coordination

- Unique Load Characteristics support the need for PHP as a standalone customer class
  - Active Demand Control by NSP
    - Ramped up to optimize system dispatch (e.g. avoid renewable curtailment)
    - Ramped down to optimize system dispatch (e.g. unit curtailments, transmission imports, etc.)
    - PHP load is scheduled seven days ahead so that NS Power can plan to accommodate system load
  - Priority Interruptible
    - Allows other Industrials to avoid operation interruption
  - Responds to Reliability Events in Real Time
  - Helps avoid dispatching less economic generating units to meet system demand

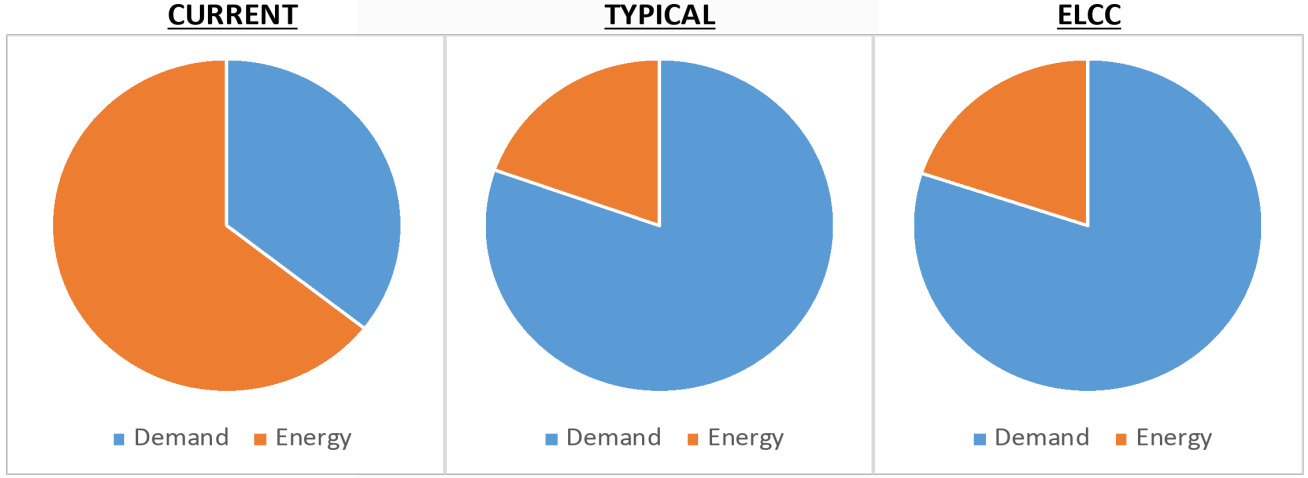
BRUBAKER & ASSOCIATES, INC.

PHP DEMAND ALLOCATION

- PHP load had already been reduced down by NSP a number of hours in advance of the need to make any further system interruption call.
- 8-9 MW inclusive of shared service (energy) for the biomass plant located at PHP.



Generation Functional Classification



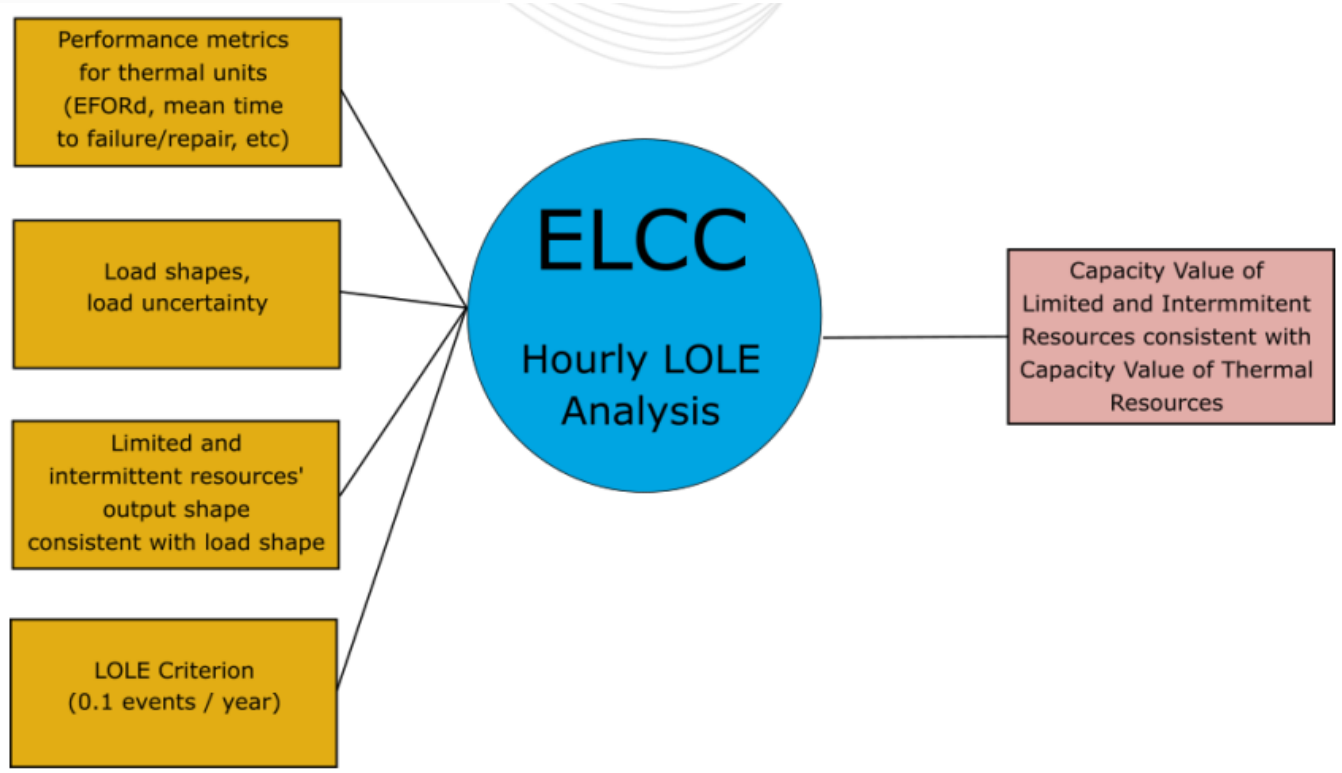
	Demand	Energy	Demand	Energy	Demand	Energy
Steam	30%	70%	100%	0%	89%	11%
Hydro	46%	54%	75%	25%	91%	9%
Wind	18%	82%	0%	100%	19%	81%
Solar	0%	100%	100%	0%	5%	95%
LM6000	46%	54%	100%	0%	75%	25%
Gas Turbine	100%	0%	100%	0%	82%	18%
Total	**36%**	**64%**	**80%**	**20%**	**80%**	**20%**
Plant $	$765,623	$1,386,061	$1,730,610	$421,075	$1,723,261	$428,424

Note: Typical model is a hypothetical example assuming 100% of dispatchable resources are allocated on demand and 100% of non-dispatchable resources are allocated on energy (other than solar). The ELCC example derives demand allocations based on E3, Overview of PRM Study (August 7, 2019) Presentation, Slide 23, ELCC values.

BRUBAKER & ASSOCIATES, INC.

Generation Functional Classification

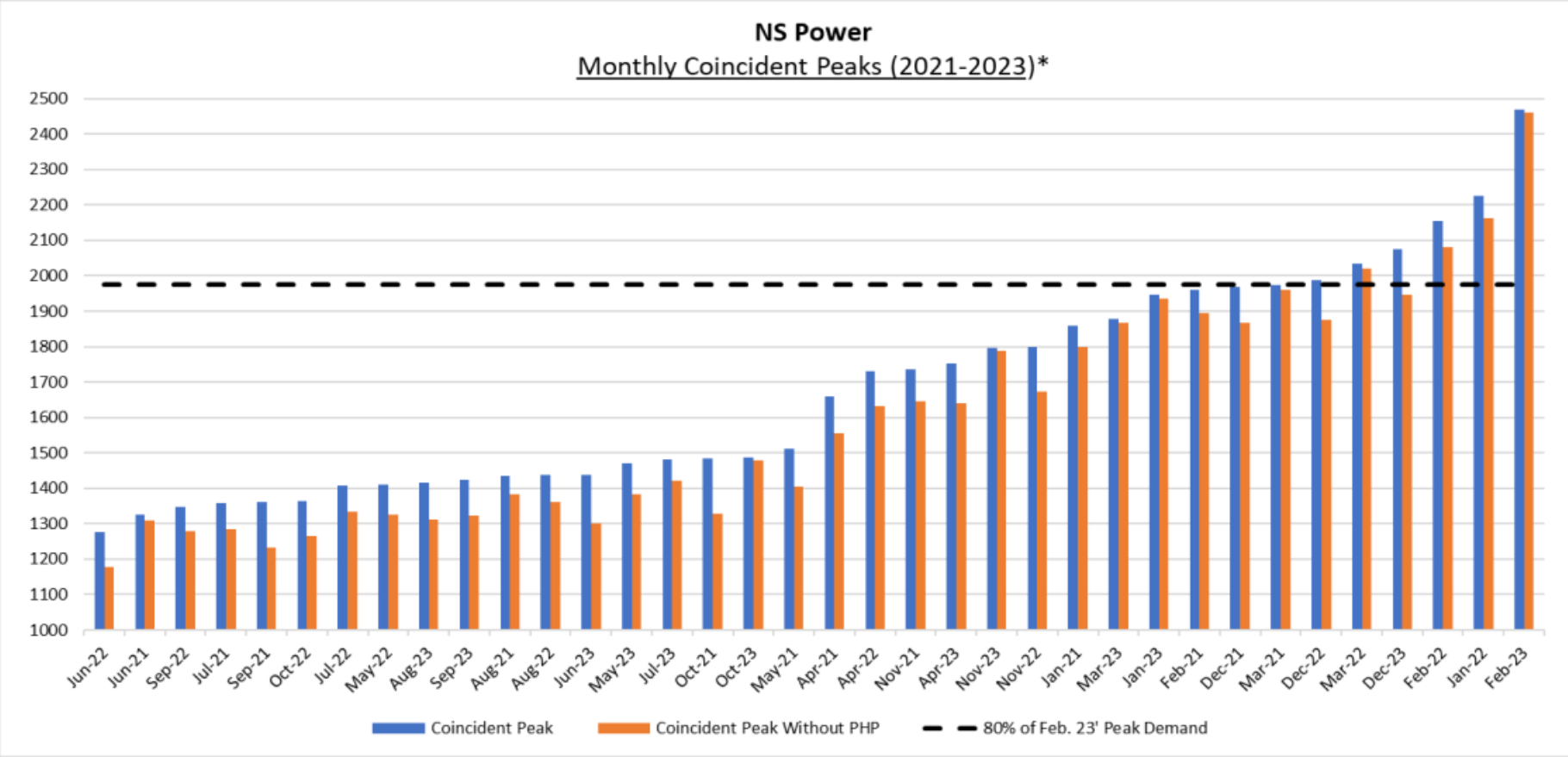
- ELCC reflects the actual ability of a generating unit to meet customer peak demand.
- North American Regional Transmission Organizations are increasingly using ELCC to determine the appropriate capacity accreditation of generating resources.
- NS Power already conducts an ELCC Study in its Integrated Resource Plans.



Source: PJM, Effective Load Carrying Capability (ELCC) Presentation, Patricio Rocha Garrido, Resource Adequacy Planning Group, April 7, 2020.

NS Power Load Characteristics

Only six monthly CPs in the past three years experienced a CP equal to, or greater than 80% of the Feb. 2023 System Peak.



*Data based on publicly available 10 min. interval data derived from NS Power OASIS website (https://www.nspower.ca/oasis).

BRUBAKER & ASSOCIATES, INC.

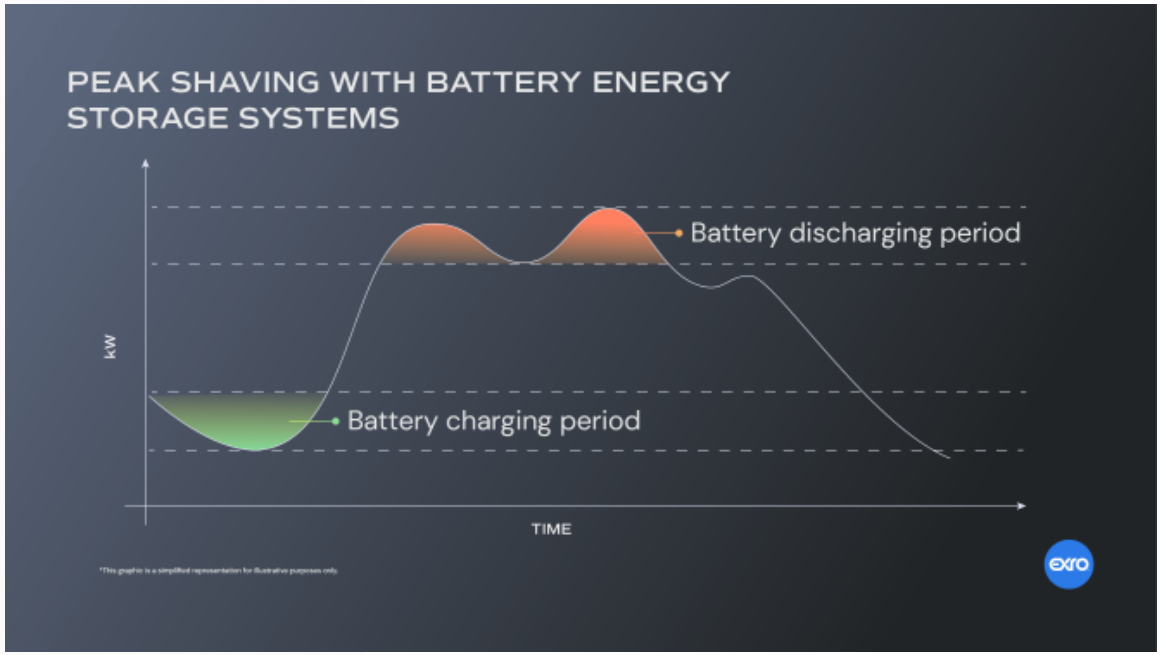
Transmission Allocator

- Functional Classification
  - Demand is the appropriate allocation for transmission.
    - Transmission facilities are sized to handle peak electricity demand.
    - The majority of NS Power's transmission system is networked as opposed to radial.
    - Less relevance of "coal by wire" with coal being phased out by 2030.
- Customer Allocation
  - Further investigation of a 3-CP vs 12-CP allocation needs to be studied in order to align cost with causation.
  - Winter peaks inform system demand.

BRUBAKER & ASSOCIATES, INC.

Dispatchable Resource Allocation

- Dispatchable resources with ramping capabilities should be allocated to demand.
- Batteries do not produce energy, they are charged with energy and discharged at times of peak demand and periodically for energy arbitrage opportunities.
- Charge cycles cause battery degradation over time, therefore batteries' usage are often limited to periods of highest peak demand.
- Primary purpose of short duration BESS is for peak shaving.



Timing of COS Transition

- Now is the time to make changes to reflect rapidly evolving NS Power system.
- ELCC generating resource cost functionalization is both more forward looking and more dynamic than current methodologies.
- COS should reflect cost-causation.
- COS treatment should reflect the role of the asset rather than the owner of the asset.
- Concepts presented reflect good utility practice in other jurisdictions.
- Modern approach to utility cost of service.

Thank you

QUESTIONS?

Blackburn Law Inc.

April 22, 2024

VIA EMAIL

Mollie Morris
Regulatory Counsel
Nova Scotia Power

Dear Ms. Morris:

Re: M11475 – COSS – Comments on April 10th Stakeholder Session.

The SBA has several comments following NS Power's April 10th COSS Stakeholder Session. Please see the Outline and Comments below.

Outline of Comments

1. *Introduction*
    1. *SBA objectives for the COSS*
    2. *Underlying Principles for COSS*
    3. *Implementing COSS changes concurrent to the Transition of the Nova Scotia electric supply portfolio*
2. *Comments on COSS issues discussed to date as part of Stakeholder Process*

Comments

1. Introduction

1. SBA Objectives for COSS

The SBA believes that the timing is excellent for a fresh, comprehensive, and forward-looking review of the methodologies and assumptions used to establish the cost of service including allocation of costs to specific customer rate classes. The conditions that make this the right time for adopting a sustainable COSS methodology are:

1.The electrification of energy usage in the Province that comes with the decarbonization policy and goals of the Province will require new investments in the electric system and give rise to new customer load shapes, perhaps even new customer classes, that need to be fairly allocated costs in a sound principled methodology.

T: 902-835-8544 F: 902-835-4310 E: info@blackburnlaw.ca www.blackburnlaw.ca
SUITE 231 BEDFORD HOUSE, SUNNYSIDE MALL, 1595 BEDFORD HIGHWAY, BEDFORD, NOVA SCOTIA B4A 3Y4

2. The NS Power supply resource portfolio will transition to incorporate increased amounts of renewable and intermittent resources.

3. The advent of customer owned generation behind the meter, especially in the form of solar photovoltaics changes the transmission and distribution system into multi-directional flow.

4. Emerging Battery Energy Storage Systems change the dynamics of a system that had since its creation operated under the principle of simultaneous production and consumption.

5. The advanced metering and customer interaction platforms provides detailed system equipment loading and data as to the corresponding customer specific consumption.

6. The Province will be establishing a new market and regulatory process for the electric system.

7. Customers are primed for choosing different services from the utility system – amount of reliability, purchasing resource adequacy services, green energy, etc.

The list goes on and on.

2. Underlying Principles for COSS

The SBA has participated in the COSS stakeholder process hoping to see a process that:

1. Closely examines cost causation for all the functions, generation, energy production, transmission, distribution, metering, customer service, restoration, demand management, energy efficiency, and energy storage.
2. Revising how the methodology for COSS should look at functionality particularly related to generation resources or capacity, transmission, interconnection, reliability, billing, etc.
3. Carefully align cost causation with allocation factors
4. Avoid the temptation to resist enhancements to the COSS methodology in the name of continuity and stabilization of rates objectives that are better addressed at the revenue allocation within general rate proceeding to achieve Bonbright principles of" stability and predictability of rates".

3. The COSS methodology that emerges must recognize the system structure, especially the Nova Scotia Supply and DSM resource portfolio, that will result from the transition of the electric grid investment composition and functionality.

2. Comments on the COSS Issues

Issue 1 Generation

Issue 1a – Should ***the use of System Load Factor (SLF) to*** allocate generation investment costs between demand and energy continue to be used? Are there alternatives to the use of the 3CP allocation factor? Can AMI data be used to make a change in the methodology?

SBA View – The SBA follows the belief that generation fixed costs such as capital investment cost recovery and O&M should be divided into three functions. First is a reliability or resource adequacy contribution function. Second is that much of the investment and O&M is essentially made to minimize energy costs and can be referred to as capitalized energy costs. Third is that the generation was added to provide clean energy to the system. The SBA would like to see the reliability or resource adequacy aspect of generation plant be set at a level equivalent to the cost of pure peaking capacity, sometimes referred to as Modified Peaker methodology rather than system load factor. We can enhance the COSS by recognizing the functionality of the investment rather than settle for approximation through the continued use of SLF. The application of a peaker methodology can be applied to all generation resource technologies whether existing part of the NS Power fleet that will soon retire, new additions of clean energy, or new technologies to come. The capacity equivalence methodology applied to the technologies should be consistent with the methodology used in resource planning such as IRP. The SBA does not believe it will be necessary to differentiate by duty cycle in applying a peaker methodology. The percentage of the investment allocated by demand will vary depending upon the cost per capacity equivalence of an investment not the current duty cycle of its utilization. The SBA is still reviewing the potential for advance hourly reliability modeling that was presented by John Wilson and its potential role in COSS.

Issue 1a(i) – Should ***Transmission classification be included as energy and demand as such is the case by continued use of SLF?***

SBA View – The SBA believes that different Transmission facilities can have different functionality. Classification of primary and secondary transmission lines is clear; the first difference is due to voltage level. We can also say that primary transmission line facilities provide system reliability at times of peak demand. Other transmission facilities are essentially generation interconnection and should be classified as generation. Still other facilities have been built to facilitate the flow of clean energy into Nova Scotia and thus should have their investments classified as energy rather than demand. To reiterate, the core network transmission system costs

are driven by system demand, but other investments serve other purposes and need to be differentially allocated.

Issue1b – Should ***the use of Hourly Production Costing for Cost Allocation?***

SBA View – The SBA would like this to be examined carefully and quickly in this process to ultimately propose changes in COSS methodology to the UARB.

Issue 1c – Implications of increased generation diversity in establishing a new methodology to allocates generation investment costs between demand and energy continue to be used?

SBA View – The SBA believes its preferences stated in Issue 1a above will specifically capture the effects of a more diverse generation portfolio.

Issue 1d –New resources, including having some NSP Owned vs. a PPA ?

SBA View – The SBA believes that the cost payment method should not determine the cost allocation methodology applied. The SBA preferences stated in Issue 1a above can be applied to any form of revenue requirement including NSP investment ownership or PPA.

Issue 1e –Unconventional generation, including PPAs. Maritime Link; DDA ?

SBA View – The SBA discussion of Issue 1a and 1a(i) addresses the PPAs and special function transmission such as the Maritime Link. The SBA does not believe that the DDA should affect the cost allocation of the investment cost recovery as it is applied. The SBA sees the DDA use affecting total revenue requirements and not cost allocation.

Issue 2 Transmission

Issue 2a – Functionalization of 'transmission' assets between transmission and generation (Maritime Link and Reliability Tie)?

SBA View – The SBA refers to the discussion of Issue 1a(i) above for this. A fresh look is needed, especially since the existing methodology does not specifically address allocating some transmission costs as energy-related.

Issue 2b – Functionalization of 'transmission' assets between transmission and generation (bulk Power Substation, BESS)?

SBA View – The SBA refers to the discussion of Issue 1a(i) above for this. A fresh look is needed, especially since the existing methodology does not specifically address allocating some transmission costs as energy-related.

Issue 2c – Sub functionalization of transmission resources 'assets EHV and HV?

SBA View – The SBA is still reviewing the implications on 'below the line' rate classes.

Issue 2d – New Transmission Resources (including grid scale battery, ancillary service technologies)?

SBA View – The SBA refers to the discussion of Issue 1a(i) above for Grid Scale Batteries. Regarding Ancillary Services, the SBA agrees with the discussion points that ancillary service costs are a reliability cost and should be 100% demand related. However, the cost allocation factor needs to be examined to see how it differs than resource adequacy cost causation.

Issue 2e – Transmission Links to other Systems?

SBA View – The SBA generally agrees that it is more likely to be appropriate to allocate ties similar to generation as discussed above in Issue 1a(i). However, the cost allocation factor needs to be examined more to see how it differs than resource adequacy cost causation.

Issue 3 Distribution

Issue 3a – Functionalization 'transmission' vs. distribution?

SBA View – The SBA believes that the majority of time the methodology currently used is adequate. However distributed energy resources will increasingly be making use of distribution level voltage lines to distribute their power amongst a wider customer base. This has not been addressed as how we can get some of the distribution costs functionalized as transmission.

Issue 3b – Sub functionalization by voltage

SBA View – The SBA believes that the functionalization methodology can remain as current. The SBA is extremely concerned that cost causation has not been studied to determine a better class allocator than non-coincident class demands. The data exists, or will exist, with AMI to examine this fully.

Issue 3c – Classification between customer and demand costs

SBA View – The SBA strongly believes that any application of a Minimum System Study to classify distribution system costs on a customer basis is inappropriate and highly hypothetical. Costs are simply not incurred in a Minimum System costs manner.

Issue 3d – Allocation: continued use of weighted customer numbers in allocation of service drop costs, use of hourly data in lieu of non- coincident class peaks (includes Distribution Circuit Cost Causation: examination using AMI data)

SBA View – The SBA strongly believes NSP should separate out service drop costs and allocate these costs on a customer basis. The SBA believes that some effort and analysis by NSP could inform a better allocation of distribution costs among the classes even if an approximation.

Issues #4- #10

The **SBA** has not fully established a view on the remaining issues and would like to file supplemental comments within the next 30 days on the additional issues as they are addressed in Stakeholder sessions.

Yours truly,

Melissa P. MacAdam
for
E. A. Nelson Blackburn, K.C.
Small Business Advocate

Minimum System Methodology
Mini Stakeholder Session
May 27, 10:00 AM

Elenchus Research Associates, Inc.
John Todd and Andrew Blair

Agenda

1. Purpose of Minimum System Study
2. Minimum System Study Methodology
3. Zero-Intercept Methodology
4. Basic Customer Methodology
5. Survey
6. Summary

Purpose of Minimum System Study

- The Minimum System Study is used in the COSS for the classification of distribution costs between customer-related and demand-related.
- The need to classify distribution costs is described in NARUC Electric Utility Cost Allocation Manual:

  When the utility installs distribution plant to provide service to a customer and to meet the individual customer's peak demand requirements, the utility must classify distribution plant data separately into demand- and customer-related costs.

  Classifying distribution plant as a demand cost assigns investment of that plant to a customer or group of customers based upon its contribution to some total peak load. The reason is that costs are incurred to serve area load, rather than a specific number of customers.

- The theory of the Minimum System Study methodology is that distribution costs are driven by a combination of building out the system to reach customers and maintaining sufficient capacity to meet peak demands.

Minimum System Study Methodology

- The Minimum System Study methodology compares the cost of a hypothetical minimum system to the total cost of the distribution system. The cost of the hypothetical minimum system is classified as customer-related and the difference between the minimum system cost and total system cost is classified as demand-related.
- The cost of a hypothetical minimum system is estimated by replacing actual asset costs with the costs of assets with minimum specifications.
- All costs incremental to the cost of assets with minimum specifications are assumed to be incurred to meet capacity requirements and are therefore considered demand-related.
- The Minimum System methodology is used by SaskPower, Hydro Quebec, and NL Power. Additionally, the judgement-based classifications used by NB Power and by Ontario distributors are based on analyses of Minimum System Studies.

Minimum System Study – 2022-24 GRA COSS

- Concentric Energy Advisors prepared a Minimum System Study for NS Power for the COSS used in the 2022-2024 GRA. Separate classifications were determined for Poles, Overhead Conductors, and Underground Conductors. Concentrics's study included the additional step of functionalizing distribution assets between Primary and Secondary.

	Poles	Overhead Conductors	Underground Conductors
Primary - Demand	15%	49%	6%
Primary - Customer	49%	30%	1%
Secondary - Demand	11%	3%	17%
Secondary - Customer	25%	17%	76%

2022-2024 GRA Direct Evidence Appendix 11A Page 5 of 7

- Disaggregated Results:

	Primary			Secondary		
	Poles	Overhead Conductors	Underground Conductors	Poles	Overhead Conductors	Underground Conductors
Demand	24%	62%	84%	30%	17%	18%
Customer	76%	38%	16%	70%	83%	82%

Zero-Intercept Methodology

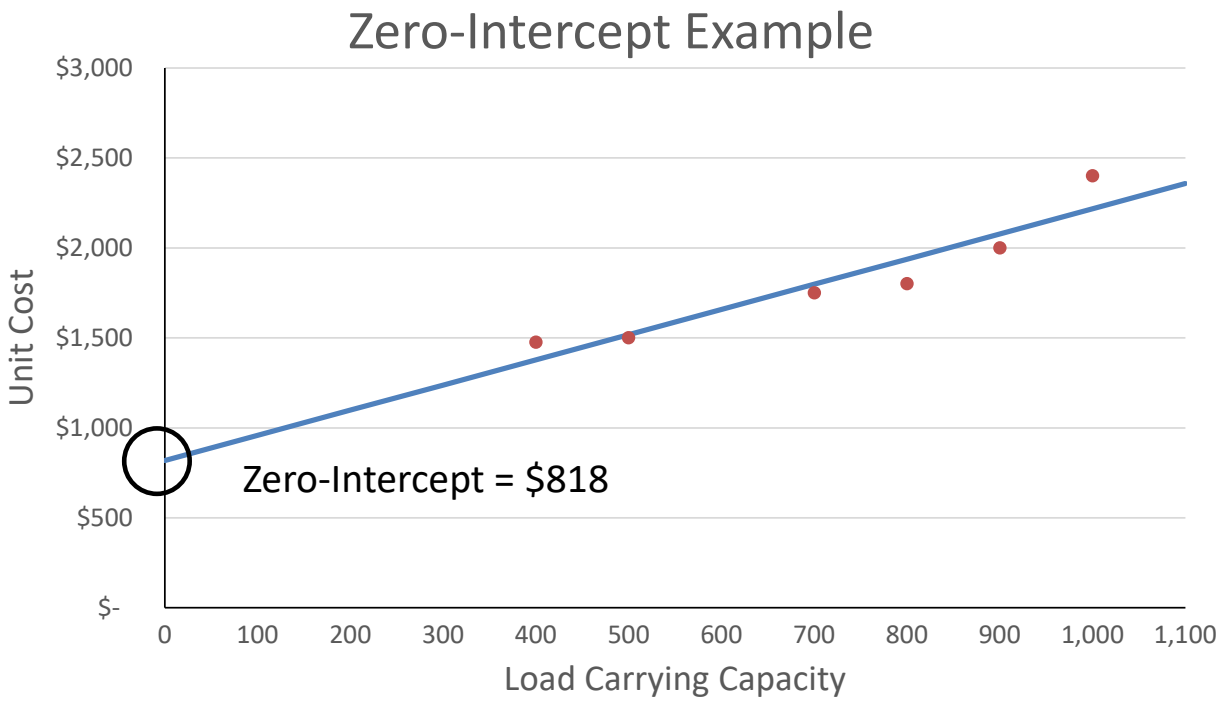
- The Zero-Intercept Methodology relies on actual cost data to determine the relationship between installed costs and load carrying capacity. A regression analysis provides a formula for the cost of an asset based on the theoretical cost of the asset with zero demand plus the cost per kW times the asset's load carrying capacity.

$$\text{Unit Cost} = \text{Intercept} + (\text{Coefficient} \times \text{Load Carrying Capacity})$$

$$\text{Unit Cost} = \begin{matrix}\text{Cost with} \\ \text{0 kW demand}\end{matrix} + (\text{Cost per kW} \times \text{Load Carrying Capacity kW})$$

$$\text{Customer Related \%} = \text{Cost with 0 kW Demand} / \text{Average Unit Cost}$$

Zero-Intercept Methodology



- Zero-Intercept = $818
- Average Unit Cost = $1,821
- Customer-Related = 44.93%

$$\text{Unit Cost} = \$818 + (\$1.40 \times \text{Load Carrying Capacity})$$

Zero-Intercept Methodology

- Cost per foot of conductor, per pole, or per kVa may be used in place of kW peak carrying capacity in more detailed analyses.
- The NARUC Cost Allocation Manual notes that results are often counterintuitive. Some studies have shown negative zero-intercepts or negative coefficients, which suggests the cost of a hypothetical asset with zero load is higher than the asset with loads.
- Zero-Intercept is conceptually similar to the Minimum System method as estimated costs without capacity are considered customer-related and the incremental costs to meet capacity requirements are considered demand-related.
- The Zero-Intercept method is used to some extent by a few Canadian utilities, but it is not the sole basis for classifying costs by any utility. NL Power uses the Zero-Intercept method only for classifying transformer costs (which are classified 100% as demand by NS Power) and NB Power's judgemental 50%/50% was determined following a review of Zero-Intercept and Minimum System analyses.

Basic Customer Methodology

- The Basic Customer methodology classifies only customer-specific costs as customer-related and the remaining costs are classified as demand-related and/or energy-related.
- Customer-specific costs typically include meters, service lines, and billing and collecting costs. Some portion of transformers and lines serving individual customers may also be considered customer-specific.
- Remaining distribution costs are classified as demand-related or classified between demand-related and energy-related using a distribution-specific system load factor or alternate methodology.
- This methodology is not used in Canada.

Survey

Utility	Transformers	Primary	Secondary
BC Hydro	Judgement (50%/50%)	Judgement (100% Demand)	Judgement (50%/50%)
SaskPower	Minimum System		
Manitoba Hydro	PUB Order (100% Demand)		
Ontario Distributors	Judgement (with consideration of Minimum System analysis)		
Hydro Quebec	Minimum System		
NB Power	Judgement (with consideration of Minimum System and Zero-Intercept analyses)		
NS Power	100% Demand	Minimum System	
Maritime Electric	Judgement (60% Demand)	Judgement (50%/50%)	
NL Power	Zero-Intercept	Minimum System	

Summary

Methodology	Arguments in Favour	Arguments Against
Minimum System Method	• A significant portion of distribution system costs are incurred to reach customers, regardless of peak demands. • Aligned with the concept that the distribution system is built to provide access to the grid • Most commonly accepted method in Canada.	• Distribution system is built to cover an area and may not be materially influenced by the number of customers. • Loads can impact investment decisions such as overhead/underground and number of poles/transformers, so typical calculation would overstate the costs of a minimum system.
Zero-Intercept Method	• Similar to Minimum System method but can be calculated with actual data.	• Counterintuitive results are common. • Arguments against the minimum system method apply to the Zero-Intercept Method.
Basic Customer Method	• Addresses shortfalls of Minimum System method. • Aligned with the concept that the distribution system is built to deliver energy, rather than provide access to the grid.	• Costs not caused by demand or energy, such as conductor length and number of poles, are allocated by demand and/or energy. • Not currently used in Canada.

Wrap-up

THANK YOU

Questions?

Refined Loss Allocation Methodology

A BBA/NSPI Project

All rights reserved. © BBA

Daryn Thompson/Jean Sebastian Lacroix

June 17, 2024

BBA.CA

On the agenda

- Context and Objectives
- Discovery Phase
- Hypothesis
- Next Steps – NSPI
- Next Steps – BBA

All rights reserved. © BBA

Refined Loss Allocation Methodology

Context and Objectives

Current methodology

- Iterative method based on historical data
- No Updates/Documentation

Objectives :

- To update the Loss Allocation methodology for NSPI customer types leveraging NSPI data, including:
  - Transmission data model
  - Distribution data model
  - GIS Secondary models (42 Feeders)
  - AMI data (+MV90) for 8760 simulation

All rights reserved. © BBA

Refined Loss Allocation Methodology

Discovery Phase

Deep dive into NSPI data for

- Transmission digital twin PSSe model and 8760 data
- Distribution digital twin CYME model and 8760 AMI & MV90 data
- Secondary services information within GIS
- Customers configuration data

Literature review and industry used of distribution losses methodology

- Com Ed (Chicago)
- Hydro One (Ontario)

All rights reserved. © BBA

Refined Loss Allocation Methodology

Hypothesis

Hypothesis developed that is currently being tested on a sample

- Working to develop a table of annual energy delivered, peak losses and annual energy losses by network segment
- Working to develop a table of loss allocation per customer types based on their location on the system e.g. Transmission

Hypothesis includes greater level of complexity vs. accuracy/precision

- Annual losses, 8760 Data vs. load factor calculations
- Non-Technical Losses, assumption vs. calculations
- Secondary Configurations, sampling vs assumptions
- Distribution transformer No-Load Losses, inventory vs. simulation

All rights reserved. © BBA

Refined Loss Allocation Methodology

Hypothesis - Methods to evaluate energy delivered and annual energy losses

Network segment	Method 1	Method 2
Transmission Lines	PSSe simulations using 8760 data	
Power Transformers	Inventory calculations	PSSe simulations using 8760 data
Distribution Lines	CYME simulations at Peak using AMI	CYME simulations using 8760 AMI data
Distribution Transformers	Inventory calculations	CYME simulation using LVSN module and 8760 AMI data
Secondary Lines	Inventory calculations	CYME simulation using LVSN module and 8760 AMI data

*By evaluating **annual energy** (GWh) and **annual energy losses** (GWh) on each network segments, and evaluating **energy sold by each customer type**, we can compute loss allocation per customer types with a certain level of accuracy*

All rights reserved. © BBA

Refined Loss Allocation Methodology

Next steps - NSPI

Activities by NSPI

- Testing Distribution Transformer and Secondary Services
  - Sample configurations
  - Load and No-Load Losses
- Exploring Enhanced Modelling Software
  - CYME Low Voltage Secondary Network (LVSN) Module
  - CYME Steady State Analysis with Profiles (SSAP) Module
  - CYME Gateway to import GIS data for LVSN ad SSAP

All rights reserved. © BBA

Refined Loss Allocation Methodology

Next steps - BBA

Activities by BBA

- Testing Hypothesis
  - Does the method yield an acceptable result
- Develop the Road Map
  - Does More Precision = More Accuracy ?
  - Results are Exponential with Data (8760 data may results in 150,000 runs)
  - What is highest value activity (80/20 rule)
- Examine Transmission Loss Methodology
  - Is the best available data being used in Forecast Methodology?

- Start the Phase 2 of the project – Implementation and validation

All rights reserved. © BBA

Questions?



All rights reserved. © BBA

2024 Generic COS Proceeding

Technical Conference No. 8

Alignment of cost-of-service treatment applied to bundled and unbundled services in RtR and Wholesale Markets

June 17, 2024

Nova Scotia POWER
An Emera Company

Agenda

- Recap: Bundled vs Unbundled Services at NS Power
- Renewable to Retail Market Tariff Design
- OATT Pricing Foundations
- Conclusions

Bundled vs Unbundled Electric Services

- **Electric Services ($1.9 billion or 98.2%)**
  - **Bundled Service Electric Rates ($1.9 Billion or 99.6% of Electric Serv.)**
    - Base Cost Rates (BCR or above-the-line ATL) – changed in General Rate Applications ($1.7 billion or 90.8% of bundled Serv.)
    - Annually Adjusted Rates (AARs or below-the-line BTL) – formula based rates ($0.091 billion or 4.9%)
    - Cost Trackers with True-up: FAM Riders, DSM Riders, Storm Riders, Solar Garden Pilot Rate Rider ($0.074 billion or 4.0%)
  - **Unbundled Service Electric Rates ($0.007 billion or 0.4% of El. Serv.)**
    - Wholesale Municipal Market: BUTU, Spill, OATT
    - Renewable to Retail Market: EBS, SS, RTT, OATT, DT

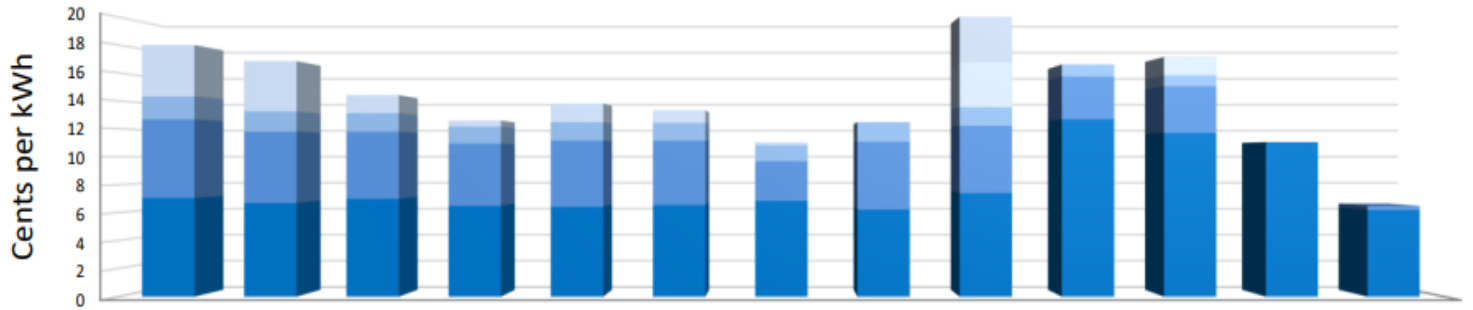
- **Non-electric miscellaneous services** (Poles services, Late Payment charges, wiring inspections, connections/disconnections etc) **($0.033 Billion or 1.8%)**

Interplay between bundled and unbundled service revenue requirements

- Test year RtR and Wholesale Market revenues are to be treated as an offset to test year revenue requirement from the ATL classes on a cost itemized basis in exhibits 4 and 4A as is the case with other below-the-line (BTL) rate classes.
- The RtR and Wholesale non-fuel cost charges, reflecting embedded cost of service, are to be determined on an iterative basis simultaneously with apportionment of net revenue requirement to the ATL classes.
    - Source: 2016 RtR Proceeding (M06214) NSUARB IR-01 and Multeese DR-30

Bundled Service Costs

2023
Cost of Service by Functional Areas in cents per kWh(1)



	DOMESTIC (Weighted Average of 2 Classes)	SMALL GENERAL	GENERAL	LARGE GENERAL	SMALL INDUSTRIAL	MEDIUM INDUSTRIAL	LARGE INDUSTRIAL FIRM	MUNICIPAL	UNMETERED	1P-RTP: (Weighted Average of 3 Classes)	SHORE POWER (Distribution)	LOAD FOLLOWING	ELIADC
Total	18.453	17.444	14.518	12.687	14.245	13.412	11.106	13.251	25.405	16.611	17.440	11.542	6.481
Retail	0.468	0.609	0.120	0.101	0.439	0.091	0.065	0.795	0.504	0.019	0.311	0.500	
Streetlight Fixture	0	0	0	0	0	0	0	0	8.142	0	0	0	
Distribution	3.675	3.608	1.289	0.438	1.347	0.901	0.212	0.001	3.211	-	1.317	-	
Transmission	1.642	1.441	1.334	1.209	1.311	1.269	1.161	1.377	1.332	0.866	0.777	-	
Generation-Non-Fuel	5.619	5.099	4.792	4.464	4.733	4.612	2.831	4.865	4.820	3.051	3.340	-	0.300
Generation-Fuel	7.048	6.688	6.984	6.475	6.415	6.538	6.837	6.213	7.395	12.676	11.696	11.042	6.181

(1) Bill amounts paid by individual customers may vary from the above benchmarks due to a difference in usage between the customer and its rate class average and difference between rate design, Rate increase directives and functional cost breakdown under the COSS for each class

Source: Rates & Tariffs| Nova Scotia Power (nspower.ca)

Nova Scotia POWER An Emera Company

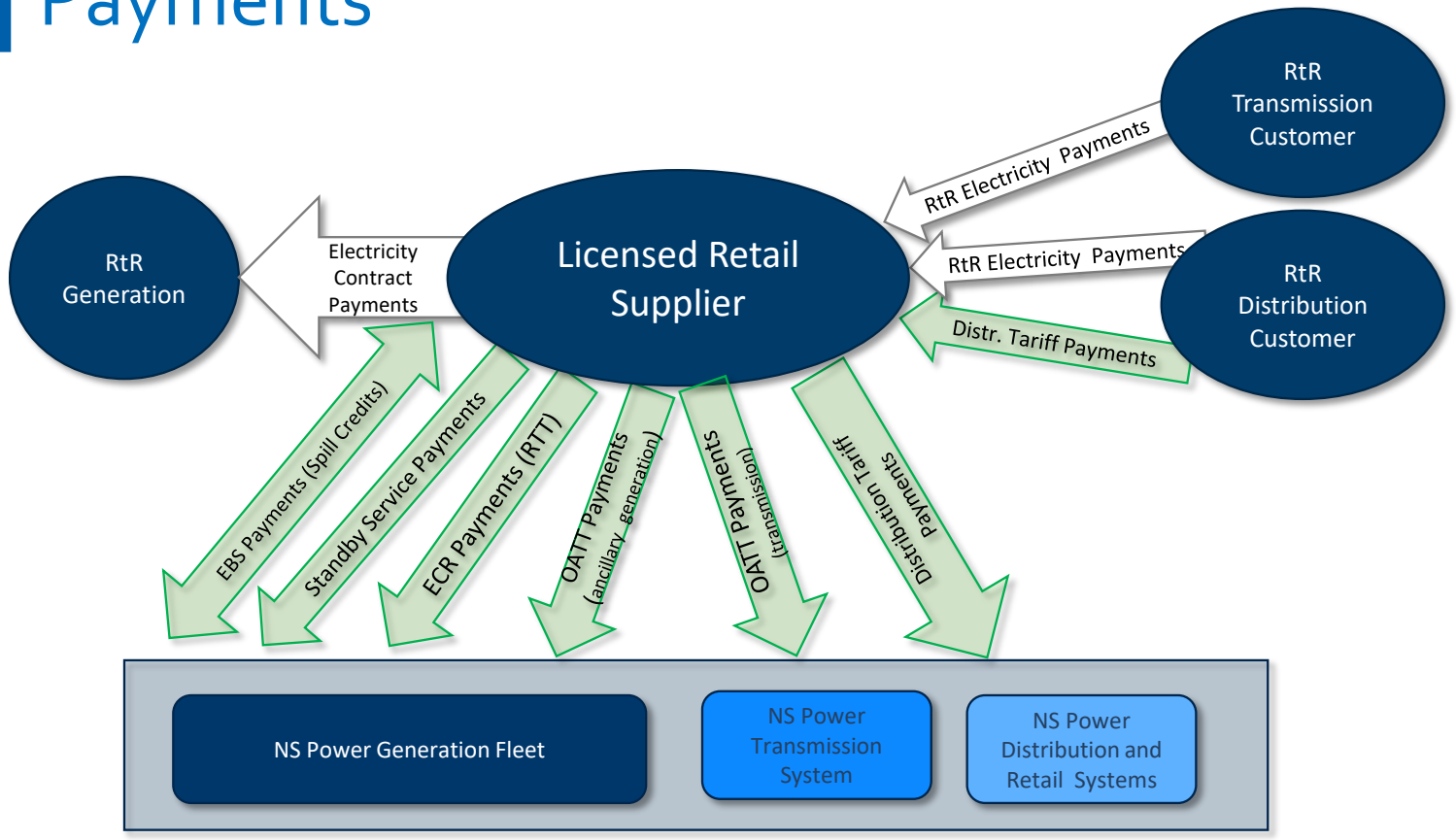
Renewable to Retail Market

The Renewable to Retail Market

- The RtR market is established in the Electricity Act.
- Includes the following participants:
  - Certified Generators of renewable low-impact electricity located in Nova Scotia;
  - Licenced Renewable Suppliers (LRS), licenced by the Board to sell the renewable electricity; and
  - Retail electricity customers in Nova Scotia.
- Generators supply electricity to LRS's customers (Generation resource may be contracted or LRS-owned).
- LRS utilize tariffed delivery services and balancing services from NS Power to enable to delivery of electricity to their retail customers.
- Retail Customers enter into contracts with an LRS for their renewable electricity supply and take service from NS Power under the Distribution Tariff[1].

[1] The Distribution Tariff does not apply to transmission connected RtR customers.

Disaggregated Tariff Design – Flow of RtR Payments



EBS = Energy Balancing Service
SS = Standby Service
Note: EBS & SS address: Top Up and Spill and provision of Back Up supply.

OATT Rates

Schedule	Description	$ / MW 2014 - 2022	$ / MW 2023 as based on Costs	% Change	$ / MW 2023 as approved subject to 1.8% Cap	% Change
Schedule 1	Sched., Sys. Cntrl. & Disp. For Point-To-Point/Monthly	$416.45	$404.41	-2.89%	$404.41	-2.89%
Schedule 1	Sched., Sys. Cntrl. & Disp. For Network Service/Rate Monthly	$353.98	$368.02	3.97%	$360.35	1.80%
Schedule 2	Reactive Supply & Voltage Control/Pt-to-Pt/Monthly	$214.97	$187.49	-12.78%	$187.49	-12.78%
Schedule 2	Reactive Supply & Voltage Control/Network Services/Monthly	$182.76	$170.59	-6.66%	$170.59	-6.66%
Schedule 3	Regulation and Frequency Respponse Service (Regulation Point to Point)/Monthly	$217.06	$218.40	0.62%	$218.40	0.62%
Schedule 3	Regulation and Frequency Respponse Service (Regulation Network)/Monthly	$217.06	$218.40	0.62%	$218.40	0.62%
Schedule 3	Regulation and Frequency Respponse Service (Load Following Point to Point)/Monthly	$776.85	$960.92	23.69%	$790.83	1.80%
Schedule 3	Regulation and Frequency Respponse Service (Load Following Network)/Monthly	$776.85	$960.92	23.69%	$790.83	1.80%
Schedule 5	Operating Reserve - Spinning Reserve Service (Point-to-Point)/Monthly	$166.58	$207.73	24.70%	$169.58	1.80%
Schedule 5	Operating Reserve - Spinning Reserve Service (Network)/Monthly	$166.58	$207.73	24.70%	$169.58	1.80%
Schedule 6	Operating Reserve - Supplemental Reserve Service (10 min Point-to-Point)/Monthly	$331.83	$792.87	138.94%	$337.80	1.80%
Schedule 6	Operating Reserve - Supplemental Reserve Service (10 min Network)/Monthly	$331.83	$792.87	138.94%	$337.80	1.80%
Schedule 6	Operating Reserve - Supplemental Reserve Service (30 min Point-to-Point)/Monthly	$281.23	$353.71	25.77%	$286.29	1.80%
Schedule 6	Operating Reserve - Supplemental Reserve Service (30 min Network)/Monthly	$281.23	$353.71	25.77%	$286.29	1.80%
Schedule 7, 8	OATT Point-To-Point Transmission Service/Monthly	4,989.66	$5,542.32	$0.11	$5,079.47	1.80%
Schedule 10	OATT Network Transmission Service/Monthly Billing	$4,241.21	$5,043.64	18.92%	$4,317.55	1.80%
Point-toPoint						
Ancillary		$2,404.97	$3,125.52	29.96%	$2,394.81	-0.42%
Transmission		$4,989.66	$5,542.32	11.08%	$5,079.47	1.80%
Subtotal		$7,394.63	$8,667.84	17.22%	$7,474.28	1.08%
Network						
Ancillary		$2,310.29	$3,072.24	32.98%	$2,333.85	1.02%
Transmission		$4,241.21	$5,043.64	18.92%	$4,317.55	1.80%
Subtotal		$6,551.49	$8,115.88	23.88%	$6,651.40	1.52%

Distribution Tariff – Rates

Applicable to distribution-connected RtR Customers receiving supply from LRS

Rate Class	Customer Charge $/month		Distribution Charge ¢/kWh		Demand Charge $/kVA		Minimum Monthly Charge $/month	
	2023	2024	2023	2024	2023	2024	2023	2024
Domestic Service (Standard Offer)	19.17	19.17	1.786	1.852			19.17	19.17
Domestic Service Time Of Day	19.17	19.17	1.786	1.852			19.17	19.17
Domestic Service Time-of-Use Tariff	19.17	19.17	1.786	1.852			19.17	19.17
Domestic Service Critical Peak Pricing Tariff	19.17	19.17	1.786	1.852			19.17	19.17
Small General Tariff (Standard Offer)	21.28	21.28	2.037	2.107			21.28	21.28
Small General Time-of-Use Tariff	21.28	21.28	2.037	2.107			21.28	21.28
Small General Critical Peak Pricing Tariff	21.28	21.28	2.037	2.107			21.28	21.28
General					5.060	5.150	21.28	21.28
Large General					4.782	4.872	21.28	21.28
Small Industrial					5.143	5.178	21.28	21.28
Medium Industrial					3.573	3.639	21.28	21.28
Large Industrial Firm					1.975	2.118	21.28	21.28
Outdoor Recreational Light Rate			3.715	3.751				
Unmetered Service Rates					14.006	14.166	21.28	21.28
Miscellaneous Small Loads					14.006	14.166	21.28	21.28

Footnotes:
(1) Demand Charges and credits are applicable to kilowatt (kW) demand under the General Tariffs and kilovolt-ampere under all other tariffs with demand charges.
(2) For Large General and Large Industrial Tariffs Demand Charges and credits are applicable to kilovolt-ampere of maximum (kVA) demand of the current month or the maximum actual demand of the previous December, January or February occurring in the previous eleven months regardless whether service was taken under the bundled or unbundled service.

Energy Balancing Service Tariff

The Energy Balancing Service is a supplemental generation service provided to LRS in respect of its RtR Customers utilizing the production from renewable low-impact generators. The service consists of delivery of complementary energy to RtR Customers and reception of surplus generation from qualifying generators. For the purposes of this Energy Balancing Service Tariff, hourly LRS load in excess of generation is defined as top-up energy and hourly generation in excess of LRS load is defined as spill energy.

	2023	2024	Variance
Administration Charge ($/customer/month)	$374.89	$386.13	$11.25
Energy Charge (cents per kWh)			
Fuel Cost (cents per kWh)	11.042	8.322	(2.721)
Fixed Cost Adder	3.264	3.264	0.000
Total	**14.307**	**11.586**	**(2.721)**
Energy Credit (cents per kWh)	**11.042**	**8.322**	**(2.721)**

Standby Service Tariff

Standby Service is a supplemental generation capacity service provided to LRS. The service has two components:

- **Capacity Adequacy Service** – fulfillment of the LRS's obligation to provide or pay for its share of firm capacity required to meet adequacy standards of the nova scotia electricity system arising from forced and unforced generation outages. Energy delivered during generation outages will be billed under the energy balancing service tariff.
- **Top-Up Capacity Service** – provision of capacity to support energy delivery through the energy balancing service in respect of imbalance between load and generation.

	2023	2024	Variance
Administration Charge ($/customer/month	$ 374.89	$ 386.13	$ 11.25
Demand Charge ($/kW of monthly standby contract demand)	$3.397	$3.397	$0.000

RtR Market Transition Tariff

- For any electricity NS Power supplies to LRS load, fixed and deferred costs are recovered by the EBS and SS rates.
- When NS Power is not supplying electricity to LRS load, fixed and deferred costs are recovered by the RTT.
  - The rate structure provides for cost mitigation and for annual energy cost adjustment, both subject to annual adjustment.
- The amount of embedded cost to recover
  - Depends on characteristics of RtR generation and load
  - Depends on LRS's usage of NS Power Standby and Energy Balancing services.
- The tariff is applied to each LRS in respect of its aggregate load and generation, not on a customer-specific basis

	2023	2024	Variance
Energy Charge by Components (cents per kWh)			
Fixed Cost Adder from Energy Balancing Service Tariff	3.264	3.264	0.000
Annually Adjusted Energy Savings Credit	0.000	0.000	0.000
Annual Energy Cost Adjustment	(8.788)	(1.268)	7.521
Total	(5.524)	1.996	7.521
Demand Charge by Components ($/kW)			
Demand Charge from Standby Service Tariff	3.397	3.397	0.000
Annually Adjusted Demand Savings Credit	0.000	0.000	0.000
Total	3.397	3.397	0.000

Base Cost Rate Comparison (2016 Rates)

Unbundled Rates (do not include LRS generation costs)							Bundled Service Rate	Variance	% Var
DOMESTIC CLASS	**DT**	**OATT**	**EBS**	**SS**	**RTT**	**Total**			
0% Top-up 0% Spill	4.0	1.6	0.0	1.2	4.0	**10.9**	**15.6**	**4.7**	**30%**
20% Top-up 20% Spill	4.0	1.6	1.0	1.2	3.3	**11.2**	**15.6**	**4.4**	**28%**
40% Top-up 40% Spill	4.0	1.6	2.0	1.2	2.6	**11.5**	**15.6**	**4.2**	**27%**
60% Top-up 60% Spill	4.0	1.6	3.0	1.2	1.9	**11.8**	**15.6**	**3.9**	**25%**
80% Top-up 80% Spill	4.0	1.6	4.0	1.2	1.2	**12.1**	**15.6**	**3.6**	**23%**
100% Top-up 100% Spill	4.0	1.6	5.0	1.2	0.5	**12.4**	**15.6**	**3.3**	**21%**
GENERAL RATE CLASS	**DT**	**OATT**	**EBS**	**SS**	**RTT**	**Total**			
0% Top-up 0% Spill	1.5	1.5	0.0	0.7	3.9	**7.6**	**12.7**	**5.1**	**40%**
20% Top-up 20% Spill	1.5	1.5	1.0	0.7	3.2	**7.9**	**12.7**	**4.8**	**38%**
40% Top-up 40% Spill	1.5	1.5	1.9	0.7	2.6	**8.2**	**12.7**	**4.5**	**36%**
60% Top-up 60% Spill	1.5	1.5	2.9	0.7	1.9	**8.5**	**12.7**	**4.3**	**33%**
80% Top-up 80% Spill	1.5	1.5	3.9	0.7	1.2	**8.7**	**12.7**	**4.0**	**31%**
100% Top-up 100% Spill	1.5	1.5	4.8	0.7	0.5	**9.0**	**12.7**	**3.7**	**29%**
INDUSTRIAL LARGE FIRM SERVED A	**DT**	**OATT**	**EBS**	**SS**	**RTT**	**Total**			
0% Top-up 0% Spill	0.6	1.1	0.0	0.3	3.9	**5.9**	**10.4**	**4.4**	**43%**
20% Top-up 20% Spill	0.6	1.1	1.0	0.3	3.2	**6.2**	**10.4**	**4.2**	**40%**
40% Top-up 40% Spill	0.6	1.1	1.9	0.3	2.5	**6.5**	**10.4**	**3.9**	**37%**
60% Top-up 60% Spill	0.6	1.1	2.9	0.3	1.9	**6.8**	**10.4**	**3.6**	**35%**
80% Top-up 80% Spill	0.6	1.1	3.8	0.3	1.2	**7.0**	**10.4**	**3.3**	**32%**
100% Top-up 100% Spill	0.6	1.1	4.8	0.3	0.5	**7.3**	**10.4**	**3.0**	**29%**

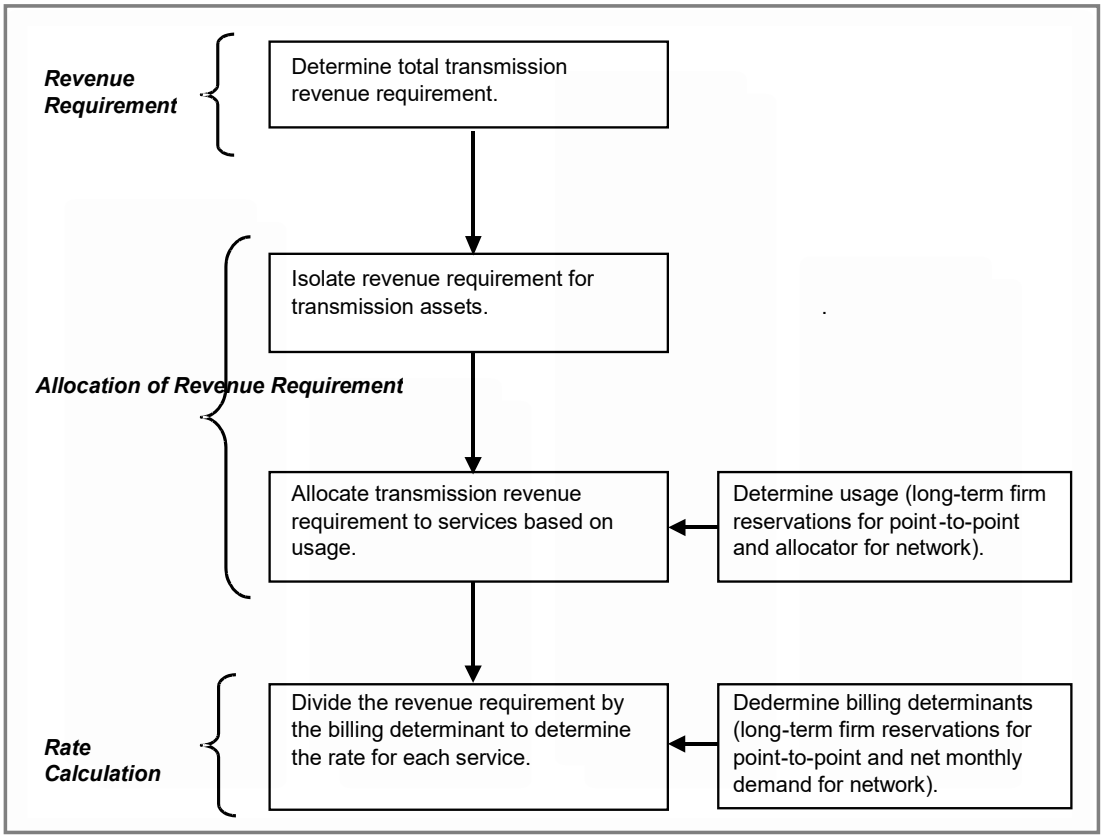
source: NSUARB IR-9 (M06214)

OATT pricing foundation

OATT Design Foundations

- OATT was designed using FERC's pro forma OATT structure.
- OATT Rates are designed for pricing purposes of transmission and generation ancillary services provided to
  - all customers in the fully unbundled markets or
  - transmission customers of the vertically integrated utilities which wish to sell electric power in wholesale markets.
- OATT has not been intended to be used in parallel with bundled service rates as an alternate pricing choice available to customers, in general. Rather, it is used as one of pricing tools replacing bundled service rates in restructured markets or it is simply not available to retail customers where vertically integrated utilities need OATT to meet FERC's requirements for non-discriminatory, open transmission access, to sell power in the wholesale markets.

Transmission Rate Design



OATT vs COSS: Differences in Transmission Revenue Requirement

Expense (in thousands of dollars)	2013		2014	
	OATT	COSS	OATT	COSS
Operating, Maintenance and General (OM&G)	$26,586	$26,104	$26,762	$26,286
Depreciation	$24,072	$26,167	$25,639	$28,866
Int. Tax/Return	$54,643	$46,252	$59,543	$50,499
Fixed Cost Recovery (FCR) Deferral	$3,216	$2,968	$3,342	$3,118
Total	**$108,517**	**$101,490**	**$115,286**	**$108,769**

- Source: Multeese IR-51, 2013 GRA P-893)

- Depreciation – differential is due to use of formulaic approach under OATT (average depreciation rate * gross plant) vs accounting costs under COSS.
- Interest Tax Return – differential is due to use of formulaic approach under OATT (tax adjusted WACC * Transmission rate base) vs functionalization of total values based on shares in service area rate base.

OATT vs COSS: Differences in Transmission Cost Classification and Allocation

- **OATT**

Service	Uasge (MW Demand)	Allocation Factors
Point-to-Point (Long-term Firm Reservation)	330	16.8%
Network (In-Province)	1,635	83.2%
Total	1,965	100.0%

- **COSS**

	Energy Requirment		Demand	
	GWh	% Share	3CP	% Share
(1) DOMESTIC	5,040.9	50%	3,758.4	61%
(2) SMALL GENERAL	343.4	3%	197.0	3%
(3) GENERAL	2,488.4	25%	1,269.1	21%
(4) GENERAL LARGE	405.3	4%	160.1	3%
(5) SMALL INDUSTRIAL	283.5	3%	138.6	2%
(6) MEDIUM INDUSTRIAL	513.5	5%	233.9	4%
(7) LARGE INDUSTRIAL	826.7	8%	302.1	5%
(8) ELI 2P-RTP	-	0%	-	0%
(9) MUNICIPAL	40.7	0%	23.2	0%
(10) UNMETERED	87.0	1%	40.9	1%
Total	10,029.3	100%	6,123.4	100%

OATT vs COSS: Differences in Pricing of Transmission

- OATT
  - priced in $/kW
  - reflective of test year costs subject to caps as settled with stakeholders
- Bundled Service Rates
  - priced in either c/kWh or both in c/kWh and $/kVa or $/kW
  - Reflective of test year costs subject to
    - revenue to cost ratio adjustments
    - Cost deferrals, caps and multi-year rate smoothing which might be solely applicable to bundled service rates

Conclusions

- In spite of the same system-based embedded costs being used in pricing of bundled and unbundled services there are differences in cost of power to individual customers between the two markets due to
  - LRS' generation costs being different from those of NS Power
  - Transmission revenue requirements in the two markets being different due to different methodologies applied to determine applicable cost amounts.
  - Energy Balancing, Standby Service and OATT rates
    - being designed as system uniform rates rather than retail class specific as is the case, for example, with the Distribution Tariff.
    - being applied to usage of LRS' load in aggregate rather than that of individual retail customers.
    - Having different structure in terms of applicable demand, energy and customer charges compared to those under the bundled service rates

- The Open market rates have not been designed to match cost of power under otherwise applicable bundled service retail customers. Ordinarily, these types of rates are designed to replace the bundled service rates rather than compete against them.

Questions

COSS Modelling Review
Stakeholder Session
July 16, 9:00 AM

Elenchus Research Associates, Inc.
John Todd and Andrew Blair

Agenda

1. Brief overview of the current COSS Model
2. Summary of COSS Model runs
3. Walk through each COSS Model run
4. Discussion

COSS Model

- The COSS Model functionalizes, classifies, and allocates NSP's rate base and operating expenses to rate classes
- A main input into the COSS is the Base Cost Fuel ("BCF") file. When there is a change to generation classification the changes need to be made to that file in addition to the COSS.
- There are two 'Input Data' tabs and 10 exhibits in the COSS. Most of the exhibits are broken out in multiple tabs when more detail is required.

COSS Model

Exhibit	Purpose
1	Summary of Existing and Proposed Revenue to Expense Ratio Ratios
2	Rate Base Functionalization & Classification
3	Rate Base Allocation
4	Operating Expense Functionalization
5	Operating Expense Classification
6	Operating Expense Allocation
7	Revenue Analysis
8	Development of Allocators
9	Load Data and SLF Calculation
10	Revenue to Expense Ratio Comparison
Input Data	Financial and Non-Load Customer Data
Input Data Two	Customer Load Data

Overview of COSS Model Runs

Run #	NSP Model	Model Run Description
1	✓	NSP's positions in aggregate. This model includes the changes from model runs #2-5 below.
2	✓	New Intermediate Generation sub-function classified to demand and energy by weighted-average capacity factor
3	✓	Transmission classified 100% as demand
4	✓*	PHP as a separate above the line rate class (modelled using 9MW as per request from PHP)
5	✓	Classify grid scale storage by ELCC factor
6		Sub-functionalize transmission into EHV and HV
7		No sub-functionalization of poles and conductors between Primary and Secondary
8		Allocate service drops on the same basis as meters
9		Allocate service drops with the customer count allocator
10a		Classify Steam generation by capacity factor instead of SLF
10b		Classify all generation that is currently classified by SLF by capacity factor
11		MEUs are included as an above the line rate class as "Municipal OATT"

* NS Power position is that PHP should be a separate class if moving service to ATL from BTL. NS Power has not determined its position on PHP's assumed demand level.

Overview of COSS Model Runs

- We will begin with the model runs with less complex modifications and move toward the more complex models and NSP's Positions
- Each COSS model includes a Summary tab that provides rate base and costs by function and by classification. The variance between the scenario and the approved 2023 COSS (both $ and % variances) is included lower in the Summary tab.
- Exh 6.1 provides details on the total and unit cost of each functional-classification for each rate class.
- Changes in Revenue to Expense Ratio ratios are presented as absolute changes with the scenario results subtracted by the 2023 Approved results. A decrease in the Revenue to Expense Ratio ratio indicates the class is allocated more costs. An increase in the Revenue to Expense Ratio ratio indicates the class is allocated less costs.

6. Sub-functionalize Transmission into EHV and HV

- **Purpose:** Analyse the impact of removing the allocation of HV Transmission costs to EHV-connected customers.
- **Model Notes:** The COSS already separates Transmission into EHV and HV, but the same loads are used to determine EHV and HV allocators. This model run adjusts the HV allocator by removing volumes of EHV-connected customers.
- **Overall Impact:** Cost responsibility shifts from classes with EHV to remaining classes.

6. Sub-functionalize Transmission into EHV and HV

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	102	216	-	317	97.63	97.59	-0.04
(2) SMALL GENERAL	5	15	-	20	97.14	97.10	-0.04
(3) GENERAL	34	106	-	141	105.00	104.95	-0.05
(4) GENERAL LARGE	4	17	-	22	104.01	103.96	-0.05
(5) SMALL INDUSTRIAL	4	12	-	16	99.66	99.62	-0.04
(6) MEDIUM INDUSTRIAL	6	22	-	28	99.27	99.22	-0.05
(7) LARGE INDUSTRIAL	-157	-394	-	-551	105.00	105.72	0.72
(8) PHP	-	-	-	-	NA	N/A	N/A
(9) MUNICIPAL	1	2	-	2	101.83	101.78	-0.05
(10) UNMETERED	1	4	-	5	100.00	99.98	-0.02
(11) SUB-TOTAL	**0**	**0**	**0**	**0**	**100.00**	**100.00**	**0.00**

7.No Sub-functionalization of Poles and Conductors between Primary and Secondary

- **Purpose:** Analyse the impact of removing the distinction between primary and secondary distribution costs.
- **Model Notes:** All secondary classifications are moved to primary and allocated with the existing primary allocators.
- **Overall Impact:** Costs that are currently functionalized to the secondary distribution system are allocated to all distribution-connected customers and loads so overall cost responsibility shifts from secondary-connected classes to primary-connected classes.

7.No Sub-functionalization of Poles and Conductors between Primary and Secondary

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	-2,426	-	-207	-2,633	97.63	97.93	0.30
(2) SMALL GENERAL	-212	-	-12	-223	97.14	97.53	0.39
(3) GENERAL	-447	-	-22	-469	105.00	105.15	0.15
(4) GENERAL LARGE	1,424	-	28	1,451	104.01	100.92	-3.09
(5) SMALL INDUSTRIAL	-73	-	-4	-78	99.66	99.86	0.20
(6) MEDIUM INDUSTRIAL	398	-	71	469	99.27	98.54	-0.73
(7) LARGE INDUSTRIAL	1,366	-	39	1,405	105.00	103.22	-1.78
(8) PHP	-	-	-	-	NA	N/A	N/A
(9) MUNICIPAL	-	-	1	1	101.83	101.80	-0.03
(10) UNMETERED	-30	-	106	76	100.00	99.61	-0.39
(11) SUB-TOTAL	**-**	**-**	**-**	**-**	**100.00**	**100.00**	**0.00**

8. Allocate Service Drops on the Same Basis as Meters

- **Purpose:** Analyse the impact of allocating service drops based on the allocation of meters, instead of the weighted customer count.
- **Model Notes:** A new allocator is added to the model, derived as each class's share of meter costs, and is used as the services allocator.
- **Overall Impact:** Relatively small shift in allocated costs from classes with higher weightings to classes with lower weightings.

8. Allocate Service Drops on the Same Basis as Meters

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	-	-	264	264	97.63	97.60	-0.03
(2) SMALL GENERAL	-	-	10	10	97.14	97.12	-0.02
(3) GENERAL	-	-	-206	-206	105.00	105.07	0.07
(4) GENERAL LARGE	-	-	2	2	104.01	104.01	0.00
(5) SMALL INDUSTRIAL	-	-	-90	-90	99.66	99.90	0.24
(6) MEDIUM INDUSTRIAL	-	-	15	15	99.27	99.24	-0.03
(7) LARGE INDUSTRIAL	-	-	5	5	105.00	104.99	-0.01
(8) PHP	-	-	-	-	NA	N/A	N/A
(9) MUNICIPAL	-	-	0	0	101.83	101.83	0.00
(10) UNMETERED	-	-	-	-	100.00	100.00	0.00
(11) SUB-TOTAL	**-**	**-**	**-**	**0**	**100.00**	**100.00**	**0.00**

9. Allocate Service Drops with the Customer Count Allocator

- **Purpose:** Analyse the impact of allocating service drops based on unweighted customer counts, instead of the weighted customer count.
- **Model Notes:** The weighting factors are set to 1 for each class so the allocator becomes equivalent to the unweighted customer count.
- **Overall Impact:** Relatively small shift in allocated costs from classes with higher weightings to classes with lower weightings.

9. Allocate Service Drops with the Customer Count Allocator

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	-	-	652	652	97.63	97.56	-0.07
(2) SMALL GENERAL	-	-	36	36	97.14	97.08	-0.06
(3) GENERAL	-	-	-579	-579	105.00	105.19	0.19
(4) GENERAL LARGE	-	-	-	-	104.01	104.01	0.00
(5) SMALL INDUSTRIAL	-	-	-110	-110	99.66	99.95	0.29
(6) MEDIUM INDUSTRIAL	-	-	-	-	99.27	99.27	0.00
(7) LARGE INDUSTRIAL	-	-	-	-	105.00	105.00	0.00
(8) PHP	-	-	-	-	NA	N/A	N/A
(9) MUNICIPAL	-	-	-	-	101.83	101.83	0.00
(10) UNMETERED	-	-	-	-	100.00	100.00	0.00
(11) SUB-TOTAL	**-**	**-**	**-**	**0**	**100.00**	**100.00**	**0.00**

10a. Classify Steam Generation by Capacity Factor Instead of SLF

- Capacity Factor = Average Hourly Generation / Peak Generation
- **Purpose:** Analyse the impact of allocating steam generation by the weighted average capacity factor instead of the SLF.
- **Model Notes:** The BCF file is revised with the steam generation capacity factor. Classifications of steam generation in the COSS are changed from the SLF to the capacity factor.
- **Overall Impact:** The weighted average capacity factor is lower than the SLF so there is a shift in classified costs from energy to demand. Classes with lower load factors are allocated more costs.

10a. Classify Steam Generation by Capacity Factor Instead of SLF

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	50,607	-41,456	1	9,152	97.63	96.60	-1.03
(2) SMALL GENERAL	2,658	-2,828	0	-169	97.14	97.44	0.30
(3) GENERAL	17,122	-20,486	0	-3,364	105.00	106.09	1.09
(4) GENERAL LARGE	2,152	-3,327	0	-1,175	104.01	106.66	2.65
(5) SMALL INDUSTRIAL	1,870	-2,334	0	-464	99.66	100.89	1.23
(6) MEDIUM INDUSTRIAL	3,145	-4,215	0	-1,070	99.27	100.96	1.69
(7) LARGE INDUSTRIAL	4,061	-6,785	0	-2,724	105.00	108.64	3.64
(8) PHP	-	-	-	-	NA	N/A	N/A
(9) MUNICIPAL	312	-334	0	-22	101.83	102.25	0.42
(10) UNMETERED	550	-714	0	-164	100.00	100.85	0.85
(11) SUB-TOTAL	**82,478**	**-82,478**	**1**	**-0**	**100.00**	**100.00**	**0.00**

10b. Classify All Generation that is Currently Classified by SLF by Capacity Factor

- **Purpose:** Analyse the impact of allocating all generation costs that are currently classified by the SLF by the weighted average capacity factor of that generation.
- **Model Notes:** The BCF file is revised with the weighted average capacity factor. Classifications of steam, hydro, and LM6000 generation, in addition to the Maritime Link are changed from the SLF to the capacity factor in the COSS.
- **Overall Impact:** The weighted average capacity factor is lower than the SLF so there is a shift in classified costs from energy to demand. Classes with lower load factors are allocated more cost responsibility.

10b. Classify All Generation that is Currently Classified by SLF by Capacity Factor

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	52,022	-42,617	12	9,417	97.63	96.57	-1.06
(2) SMALL GENERAL	2,731	-2,906	1	-174	97.14	97.45	0.31
(3) GENERAL	17,590	-21,052	1	-3,462	105.00	106.12	1.12
(4) GENERAL LARGE	2,213	-3,422	0	-1,209	104.01	106.74	2.73
(5) SMALL INDUSTRIAL	1,921	-2,398	0	-477	99.66	100.93	1.27
(6) MEDIUM INDUSTRIAL	3,234	-4,336	0	-1,102	99.27	101.01	1.74
(7) LARGE INDUSTRIAL	4,177	-6,980	0	-2,803	105.00	108.75	3.75
(8) PHP	-	-	-	-	NA	N/A	N/A
(9) MUNICIPAL	321	-343	0	-22	101.83	102.26	0.43
(10) UNMETERED	566	-735	0	-168	100.00	100.87	0.87
(11) SUB-TOTAL	**84,776**	**-84,789**	**13**	**-0**	**100.00**	**100.00**	**0.00**

11. MEUs Included as an ATL Rate Class

- **Purpose:** Provide an indication of the costs that would be allocated to MEUs that take OATT service if they are included in the COSS as an ATL rate class.
- **Model Notes:** The four municipal customers that take OATT service are instead included in the COSS as the Loads of the new "Municipal OATT" rate class. The loads of the four municipal customers, less volumes from Ellershouse, are included in the BCF and Input Data Two tab. Two municipal customer loads (again net of Ellershouse) are included in distribution primary. Transmission costs attributable to OATT service are now allocated to all rate classes. Revenues include only OATT revenues so the revenue-to-expense results are not useful.

11. MEUs Included as an ATL Rate Class

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	-1,840	-3,789	221	-5,407	97.63	98.25	0.62
(2) SMALL GENERAL	-103	-256	15	-344	97.14	97.75	0.61
(3) GENERAL	-641	-1,845	10	-2,476	105.00	105.80	0.80
(4) GENERAL LARGE	-83	-298	0	-381	104.01	104.86	0.85
(5) SMALL INDUSTRIAL	-70	-210	4	-276	99.66	100.39	0.73
(6) MEDIUM INDUSTRIAL	-119	-378	1	-496	99.27	100.04	0.77
(7) LARGE INDUSTRIAL	-145	-607	0	-752	105.00	105.98	0.98
(8) MUNICIPAL OATT	**4,481**	**7,893**	**269**	**12,643**	**NA**	**17.04**	**N/A**
(9) MUNICIPAL	-11	-30	-242	-284	101.83	107.64	5.81
(10) UNMETERED	-12	-64	4	-72	100.00	100.37	0.37
(11) SUB-TOTAL	**1,458**	**415**	**282**	**2,155**	**100.00**	**100.00**	**0.00**

11. MEUs Included as an ATL Rate Class

	Transmission Costs		
	Demand	Energy	Total
(1) DOMESTIC	(191)	(236)	(427)
(2) SMALL GENERAL	(10)	(16)	(26)
(3) GENERAL	(64)	(117)	(181)
(4) GENERAL LARGE	(8)	(19)	(27)
(5) SMALL INDUSTRIAL	(7)	(13)	(20)
(6) MEDIUM INDUSTRIAL	(12)	(24)	(36)
(7) LARGE INDUSTRIAL	(15)	(39)	(54)
(8) MUNICIPAL OATT	**766**	**638**	**1,405**
(9) MUNICIPAL	(2)	(2)	(4)
(10) UNMETERED	(2)	(4)	(6)
(11) SUB-TOTAL	**455**	**168**	**623**

2. New Intermediate Generation Sub-function Classified to Demand and Energy by Weighted-Average Capacity Factor

- **Purpose:** Identify "Intermediate Generation" assets and costs and classify by the weighted-average capacity factor instead of the SLF.
- **Model Notes:** Intermediate Generation includes Tufts Cove units 1, 2, and 3. Those units were included in steam generation so the new intermediate generation subfunction subtracted from steam.
- **Overall Impact:** The weighted average capacity factor is lower than the SLF so there is a shift in classified costs from energy to demand. Classes with lower load factors are allocated more cost responsibility. Intermediate Generation is approximately 10% of total steam generation so the impact is relatively small.

2. New Intermediate Generation Sub-function Classified to Demand and Energy by Weighted-Average Capacity Factor

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	7,441	-6,094	-0	1,346	97.63	97.48	-0.15
(2) SMALL GENERAL	391	-416	-0	-25	97.14	97.18	0.04
(3) GENERAL	2,516	-3,011	-0	-495	105.00	105.16	0.16
(4) GENERAL LARGE	317	-489	-0	-173	104.01	104.39	0.38
(5) SMALL INDUSTRIAL	275	-343	-0	-68	99.66	99.84	0.18
(6) MEDIUM INDUSTRIAL	463	-620	-0	-157	99.27	99.51	0.24
(7) LARGE INDUSTRIAL	597	-998	-0	-401	105.00	105.52	0.52
(8) PHP	-	-	-	-	NA	NA	N/A
(9) MUNICIPAL	46	-49	-0	-3	101.83	101.89	0.06
(10) UNMETERED	81	-105	-0	-24	100.00	100.12	0.12
(11) SUB-TOTAL	**12,125**	**-12,125**	**-0**	**-0**	**100.00**	**100.00**	**0.00**

3. Transmission Classified 100% as Demand

- **Purpose:** Classify all Transmission as 100% demand instead of using the SLF as peak demands are the primary cost driver of Transmission costs.
- **Model Notes:** The classification factors that shift costs from demand to energy are removed so all Transmission is left in demand. Cell formulas for energy-related demand are zeroed-out to avoid cell definition errors.
- **Overall Impact:** Cost responsibility is shifted from classes with relatively high load factors to classes with relatively low load factors.

3. Transmission Classified 100% as Demand

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	45,145	-36,953	-	8,192	97.63	96.70	-0.93
(2) SMALL GENERAL	2,369	-2,519	-	-150	97.14	97.40	0.26
(3) GENERAL	15,231	-18,249	-	-3,018	105.00	105.98	0.98
(4) GENERAL LARGE	1,918	-2,969	-	-1,051	104.01	106.37	2.36
(5) SMALL INDUSTRIAL	1,664	-2,079	-	-415	99.66	100.76	1.10
(6) MEDIUM INDUSTRIAL	2,803	-3,762	-	-958	99.27	100.78	1.51
(7) LARGE INDUSTRIAL	3,620	-6,055	-	-2,435	105.00	108.24	3.24
(8) PHP	-	-	-	-	NA	N/A	N/A
(9) MUNICIPAL	279	-298	-	-19	101.83	102.19	0.36
(10) UNMETERED	491	-637	-	-147	100.00	100.76	0.76
(11) SUB-TOTAL	**73,520**	**-73,520**	**-**	**0**	**100.00**	**100.00**	**0.00**

4. PHP as a Separate ATL Rate Class

- **Purpose:** Move PHP from a BTL rate class to a new interruptible ATL rate class.
- **Model Notes:** This model is the same as PHP DR-12 part a). Loads are shifted from the BTL rate class to ATL rate class and the interruptible credit is applied to the class. The customer characteristics are adopted from the Large Industrial class.
- **Overall Impact:** Costs are moved from BTL to ATL so there is a higher ATL revenue requirement. The SLF is calculated among ATL rate classes so moving PHP to ATL changes the SLF, which increases the share of costs allocated by energy.
- NS Power position is that PHP should be a separate class if moving service to ATL from BTL. NS Power has not determined its position on PHP's assumed demand level.

4. PHP as a Separate ATL Rate Class

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	-17,226	57	391	-16,777	97.63	99.58	1.95
(2) SMALL GENERAL	-895	30	25	-840	97.14	98.64	1.50
(3) GENERAL	-5,797	378	6	-5,414	105.00	106.76	1.76
(4) GENERAL LARGE	-737	88	-1	-651	104.01	105.46	1.45
(5) SMALL INDUSTRIAL	-633	51	3	-579	99.66	101.20	1.54
(6) MEDIUM INDUSTRIAL	-1,069	116	-1	-953	99.27	100.77	1.50
(7) LARGE INDUSTRIAL	-1,421	194	-2	-1,230	105.00	106.61	1.61
(8) PHP	**137**	**87,471**	**91**	**87,699**	**NA**	**69.57**	**N/A**
(9) MUNICIPAL	-108	3	0	-104	101.83	103.89	2.06
(10) UNMETERED	-164	19	7	-138	100.00	100.71	0.71
(11) SUB-TOTAL	**-27,914**	**88,407**	**519**	**61,013**	**100.00**	**100.00**	**0.00**

5. Classify Grid Scale Storage by ELCC Factor

- **Purpose:** Subfunctionalize grid scale storage separately from EHV and HV Transmission and classify by the ELCC.
- **Model Notes:** Grid scale storage is not operational in 2023 and all asset value is CWIP. Costs subfunctionalized to grid scale storage are interest, net income, and taxes. Operations & maintenance costs and depreciation are not attributed to storage.
- **Overall Impact:** The revenue requirement of grid scale storage is not significant in 2023 so the impacts of this change are not significant.

5. Classify Grid Scale Storage by ELCC Factor

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	645	-528	-0	117	97.63	97.62	-0.01
(2) SMALL GENERAL	34	-36	-0	-2	97.14	97.14	0.00
(3) GENERAL	218	-261	-0	-43	105.00	105.01	0.01
(4) GENERAL LARGE	27	-42	-0	-15	104.01	104.04	0.03
(5) SMALL INDUSTRIAL	24	-30	-0	-6	99.66	99.68	0.02
(6) MEDIUM INDUSTRIAL	40	-54	-0	-14	99.27	99.29	0.02
(7) LARGE INDUSTRIAL	52	-87	-0	-35	105.00	105.04	0.04
(8) PHP	-	-	-	-	NA	NA	N/A
(9) MUNICIPAL	4	-4	-0	-0	101.83	101.83	0.00
(10) UNMETERED	7	-9	-0	-2	100.00	100.01	0.01
(11) SUB-TOTAL	**1,050**	**-1,050**	**-0**	**0**	**100.00**	**100.00**	**0.00**

1. NSP Positions

- **Purpose:** Combine the changes made in COSS model runs 2, 3, 4, and 5.
- **Model Notes:** The classification of Transmission 100% to demand is not applied to grid scale storage.
- **Overall Impact:** There is an overall shift in costs classified as demand due to the classification of Transmission as 100% Demand and shift in Intermediate Generation costs from energy to demand. This is somewhat offset by an increase in generation costs classified as energy resulting from the changed SLF by included PHP.

1. NSP Positions

	Change in Total Allocated Costs ($000)				Revenue to Expense Ratio		
	Demand	Energy	Cust.	Total	Approved 2023	Scenario	Change
(1) DOMESTIC	39,029	-43,342	393	-3,920	97.63	98.08	0.45
(2) SMALL GENERAL	2,143	-2,929	25	-761	97.14	98.50	1.36
(3) GENERAL	13,407	-21,057	6	-7,644	105.00	107.51	2.51
(4) GENERAL LARGE	1,610	-3,398	-1	-1,789	104.01	108.10	4.09
(5) SMALL INDUSTRIAL	1,469	-2,391	3	-919	99.66	102.13	2.47
(6) MEDIUM INDUSTRIAL	2,442	-4,301	-1	-1,859	99.27	102.25	2.98
(7) LARGE INDUSTRIAL	1,775	-6,917	-2	-5,143	105.00	112.09	7.09
(8) PHP	1,611	80,473	90	82,174	NA	72.69	N/A
(9) MUNICIPAL	225	-346	0	-122	101.83	104.24	2.41
(10) UNMETERED	451	-738	7	-280	100.00	101.46	1.46
(11) SUB-TOTAL	**64,162**	**-4,946**	**519**	**59,736**	**100.00**	**100.00**	**0.00**

DSM Model Scenario

- NSP was asked to model the impact of changing the classification of DSM costs attributable to the MEUs to be 100% based on direct customer costs.
- Currently 75% of costs are assigned directly to rate classes and 25% is considered the System Benefit that allocated using the COSS methodology. The System Benefit is classified between Demand and Energy by the weighted average classification of generation in the COSS. Demand costs are allocated by 3CP and Energy costs are allocated by energy requirement.
- The allocation to the four OATT municipalities is currently 100% customer-related and they do not receive an allocation of System Benefit.
- BUTU costs are classified 100% as customer-related.

DSM Models

	Current Method (Compliance Filing)				MEU 100% Customer				Difference
	System Benefit Costs (25% of the total)		Participating Class Benefit Costs (75% of total)	Total	System Benefit Costs (25% of the total)		Participating Class Benefit Costs (75% of total)	Total	
	Demand-related	Energy-related			Demand-related	Energy-related			
Rate Class									
Residential	$2,820,707	$4,225,139	$21,138,058	$28,183,903	$2,858,365	$4,225,646	$21,138,058	$28,222,069	$38,165
Small General	$147,877	$287,794	$2,023,857	$2,459,528	$149,851	$287,829	$2,023,857	$2,461,537	$2,009
General Demand	$952,442	$2,085,692	$10,344,156	$13,382,290	$965,158	$2,085,943	$10,344,156	$13,395,256	$12,966
Large General	$120,133	$339,700	$1,798,984	$2,258,817	$121,737	$339,740	$1,798,984	$2,260,461	$1,645
Small Industrial	$104,026	$237,634	$1,349,238	$1,690,898	$105,415	$237,663	$1,349,238	$1,692,316	$1,417
Medium Industrial	$175,553	$430,428	$749,577	$1,355,557	$177,896	$430,480	$749,577	$1,357,953	$2,395
Large Industrial	$226,722	$692,893	$1,649,068	$2,568,684	$229,749	$692,976	$1,649,068	$2,571,794	$3,110
Municipal Class									
Customer in Bundle Service	$17,432	$34,089	$196,689	$248,210	$17,665	$34,093	$196,689	$248,447	$237
Customer moving Load to OATT									
Customer A	$0	$0	$364,045	$364,045	$0	$0	$364,045	$364,045	$0
Customer B	$0	$0	$182,371	$182,371	$0	$0	$182,371	$182,371	$0
Customer C	$0	$0	$35,480	$35,480	$0	$0	$35,480	$35,480	$0
Customer D	$0	$0	$23,401	$23,401	$0	$0	$23,401	$23,401	$0
Subtotal Unbundled Service Customers	$0	$0	$605,296	$605,296	$0	$0	$605,296	$605,296	$0
Municipal before BUTU	$17,432	$34,089	$801,985	$853,507	$17,665	$34,093	$801,985	$853,743	$237
Unmetered	$30,690	$72,939	$29,983	$133,612	$31,100	$72,948	$29,983	$134,031	$418
Gen. Repl. / Load Following.	$500	$6,066	$0	$6,566	$507	$6,067	$0	$6,574	$7
1P-RTP	$0	$11,544	$0	$11,544	$0	$11,545	$0	$11,545	$1
Shore Power	$0	$836	$0	$836	$0	$836	$0	$836	$0
BUTU	$73,097	$22,246	$98,915	$194,258	$0	$0	$131,887	$131,887	-$62,372
Total	**$4,669,181**	**$8,446,999**	**$39,983,820**	**$53,100,000**	**$4,657,443**	**$8,425,765**	**$40,016,792**	**$53,100,000**	**$0**

Discussion

- Is additional clarity required on what has changed in each model or the results of each model?
- Are any modifications of the models required to reflect your positions?
- Any other comments?

Wrap-up

THANK YOU

2024 Generic COS Proceeding

Mini Stakeholder Session – Bundled/Unbundled Markets

Continued discussion of topics covered in Technical Conference No. 8 on June 17, 2024.

- Follow-up to MEUs' questions and requests arising from COSS stakeholder session #8
- A full response to questions raised by James MacDuff on behalf of MEUs in his e-mail "CTD with Elenchus consensus summary for Discussion" sent on June 5, 2024.

October 3, 2024

Nova Scotia POWER
An Emera Company

Agenda

- Outstanding Question around OATT design from Session #8
- Pricing of electric services to Wholesale Municipalities (MEUs) in bundled and wholesale markets
  - How do rates in wholesale and renewable to retail (RtR) markets compare?
- Proposed OATT Amendments
  - OATT Pricing Foundations
  - Transmission Costs under OATT versus COSS
  - Proposed Amendment to Revenue Requirement under OATT

Outstanding Question around OATT design from Session #8

OATT vs COSS: Differences in Transmission Cost Classification and Allocation

- **OATT**

Service	Uasge (MW Demand)	Allocation Factors
Point-to-Point (Long-term Firm Reservation)	330	16.8%
Network (In-Province)	1,635	83.2%
Total	1,965	100.0%

- **COSS**

	Energy Requirment		Demand	
	GWh	% Share	3CP	% Share
(1) DOMESTIC	5,040.9	50%	3,758.4	61%
(2) SMALL GENERAL	343.4	3%	197.0	3%
(3) GENERAL	2,488.4	25%	1,269.1	21%
(4) GENERAL LARGE	405.3	4%	160.1	3%
(5) SMALL INDUSTRIAL	283.5	3%	138.6	2%
(6) MEDIUM INDUSTRIAL	513.5	5%	233.9	4%
(7) LARGE INDUSTRIAL	826.7	8%	302.1	5%
(8) ELI 2P-RTP	-	0%	-	0%
(9) MUNICIPAL	40.7	0%	23.2	0%
(10) UNMETERED	87.0	1%	40.9	1%
Total	10,029.3	100%	6,123.4	100%

Why is usage determinant of Network Service based on historic instead of forecasted values?

Why are there differences in how usage determinants are set between OATT and COSS?

- By design, costs of service are allocated to rate classes based on their forecasted usage of energy, demand and customer counts in the COSS.
- In contrast, the demand usage determinants applied in the development of OATT rates have traditionally been based on actual usage since the inception of the OATT service in 2005.
- In the 2023-2024 GRA the test year usage under the Point-to-Point reflected the prospective Long-term firm reservation as provided in Trans – Fig 5-10.

Service	Long-Term Firm Reservations	Transmission System 12 CP	Allocation Factors (%)	Billing Determinants 12 NCP
Point-to-Point (Note 1)	330		16.79%	N/A
Network In-Province (Note 2)		1,635	83.21%	1,797
TOTAL MW	**330**	**1,635**	**100.00%**	

NOTES:
1. There is currenly one Long-Term Firm Point-to-Point Transmission Reservation (TSR400)
2. The 1635 MW is the average of the 12 monthly Coincident System Peaks averaged for 2019 - 2020 from PI monthly peak data. The 1,797 MW is based on a review of 2023 system load data resulting in a coincidence factor of 91% which is then applied to the average of the 12 monthly Coincident System Peaks.

Rate Effect of Applying Forecasted Usage
(source: Trans-Fig 5-9 tab)

Schedule	Description	$ / MW 2023 as based on Costs filed in the GRA	$ / MW 2023 as based on Costs with Revised Usage	% Change
Schedule 1	Sched., Sys. Cntrl. & Disp. For Point-To-Point/Monthly	$404.41	$394.05	-2.56%
Schedule 1	Sched., Sys. Cntrl. & Disp. For Network Service/Rate Monthly	$368.02	$358.59	-2.56%
Schedule 2	Reactive Supply & Voltage Control/Pt-to-Pt/Monthly	$187.82	$183.01	-2.56%
Schedule 2	Reactive Supply & Voltage Control/Network Services/Monthly	$170.89	$166.58	-2.52%
Schedule 3	Regulation and Frequency Respponse Service (Regulation Point to Point)/Monthly	$218.90	$212.29	-3.02%
Schedule 3	Regulation and Frequency Respponse Service (Regulation Network)/Monthly	$218.90	$212.29	-3.02%
Schedule 3	Regulation and Frequency Respponse Service (Load Following Point to Point)/Monthly	$1,478.68	$1,433.99	-3.02%
Schedule 3	Regulation and Frequency Respponse Service (Load Following Network)/Monthly	$1,478.68	$1,433.99	-3.02%
Schedule 5	Operating Reserve - Spinning Reserve Service (Point-to-Point)/Monthly	$208.21	$201.92	-3.02%
Schedule 5	Operating Reserve - Spinning Reserve Service (Network)/Monthly	$208.21	$201.92	-3.02%
Schedule 6	Operating Reserve - Supplemental Reserve Service (10 min Point-to-Point)/Monthly	$794.10	$770.10	-3.02%
Schedule 6	Operating Reserve - Supplemental Reserve Service (10 min Network)/Monthly	$794.10	$770.10	-3.02%
Schedule 6	Operating Reserve - Supplemental Reserve Service (30 min Point-to-Point)/Monthly	$354.56	$343.84	-3.02%
Schedule 6	Operating Reserve - Supplemental Reserve Service (30 min Network)/Monthly	$354.56	$343.84	-3.02%
Schedule 7, 8	OATT Point-To-Point Transmission Service/Monthly	5,765.56	5,617.88	-2.56%
Schedule 10	OATT Network Transmission Service/Monthly Billing	$5,246.79	$5,112.40	-2.56%
Point-toPoint				
Ancillary Generation		$3,646.66	$3,539.19	-2.95%
Transmission		$5,765.56	$5,617.88	-2.56%
Subtotal		$9,412.22	$9,157.07	-2.71%
Network				
Ancillary Generation		$3,593.35	$3,487.30	-2.95%
Transmission		$5,246.79	$5,112.40	-2.56%
Subtotal		$8,840.14	$8,599.71	-2.72%

NS Power's proposal

- As indicated in response to NSUARB IR-201 in the 2023-2024 GRA proceeding there was a difference of 53 MWs between the test year usage of annual average 12 CP of 1,635 MWs under the Network Service, reflecting two-year average of actual usage from 2019 and 2020, and the forecasted figure for year 2023 of 1,688 MWs.

- As provided in response to part a) NSUARB IR-201, it was NS Power's intention to set OATT rates based on usage consistent with the Company's forecast for 2023 in the GRA Compliance Filing. However, the Company has not done this due to omission.

- NS Power does not object to setting OATT rates based on forecasted test year usage going forward in future GRA proceedings. Such an approach would serve the purpose of aligning more closely OATT rates with bundled service rates.

Pricing of electric services to Wholesale Municipalities in bundled and wholesale markets

Pricing Options Available to MEUs

- MEUs have a choice to acquire their electric services in
  1. a bundled service market under the Municipal Tariff
  2. an unbundled wholesale market where in addition to energy purchases from third party suppliers

     - they must use OATT to acquire transmission and some ancillary generation services
     - have a choice of acquiring optional energy balancing and standby capacity services under the BUTU and Spill Tariffs in the event they acquire energy from a non-dispatchable generation source such as a wind farm.

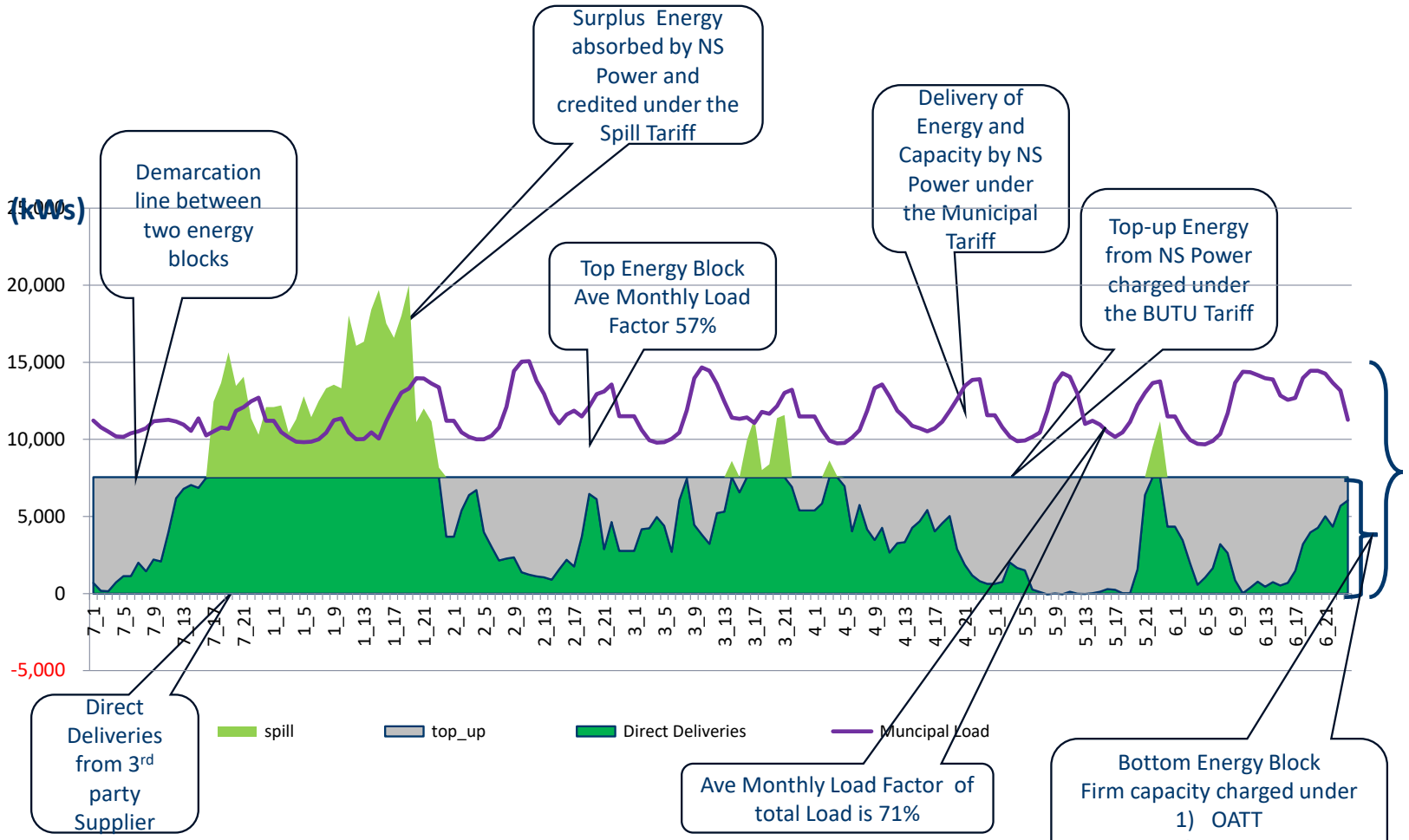
     under either full or partial service arrangement.

     – Customers are free to pre-select their annual service mix on annual basis some time in advance (OATT – 60 days, BUTU – months)

- MEUs have exercised these pricing choices every year since 2015.

Example of Service Mix of Wholesale Municipalities

(first week of June, 2024 starting Saturday ending Friday)



Nova Scotia POWER
An Emera Company

Pricing Options

		Bundled Service		Open Market													
		Municipal Tariff		OATT (Network Service)			Wholesale Market			Retail Market							
							BUTU		SPILL	Energy Balancing		Standby Service		RTT		Distribution Tariff	
		Rate	Usage	Tranmission	Ancillary Generation	Usage	Rate	Usage	Rate	Debit Charge	Credit	Rate	Usage	Rate	Usage		
Customer Charge	$/mo						386.132		2,316.791	386.132		386.132					
Demand Charges																	
Base cost of fuel	$/kVA	13.428	(Ratcheted kVA)				4.202	Contract kWs				-	Contract kWs	-	Displace		
Non-fuel	$/kVA	-	(Ratcheted kVA)	$4.318	$2.334	NC Billing	1.915	Contract kWs				3.397	Contract kWs	3.397	d		
Subtotal		13.428					6.117	Contract kWs				3.397	Contract kWs	3.397	Demand		
TOC	¢/kVA	(32.000)	(Ratcheted kVA)														
Energy Charges																	
Base cost of fuel	¢/kWh	7.035					7.926		8.322	8.322	8.322			(1.268)			
Non-fuel	¢/kWh	3.098					1.840		0	3.264	0			3.264	Displace		
Subtotal		10.133					9.766		8.322	11.586	8.322			1.996	d Energy		
FAM AA	¢/kWh	-					Yes										
FAM BA	¢/kWh	0.105					Yes										
Subtotal		0.105															
DSM PCR	¢/kWh	0.639															
DSM PCR	¢/kWh	-															
							Direct Flat Payments										
Subtotal		0.639															
SCRR	¢/kWh	Yes		Yes												Yes	
Total	¢/kWh	10.878															

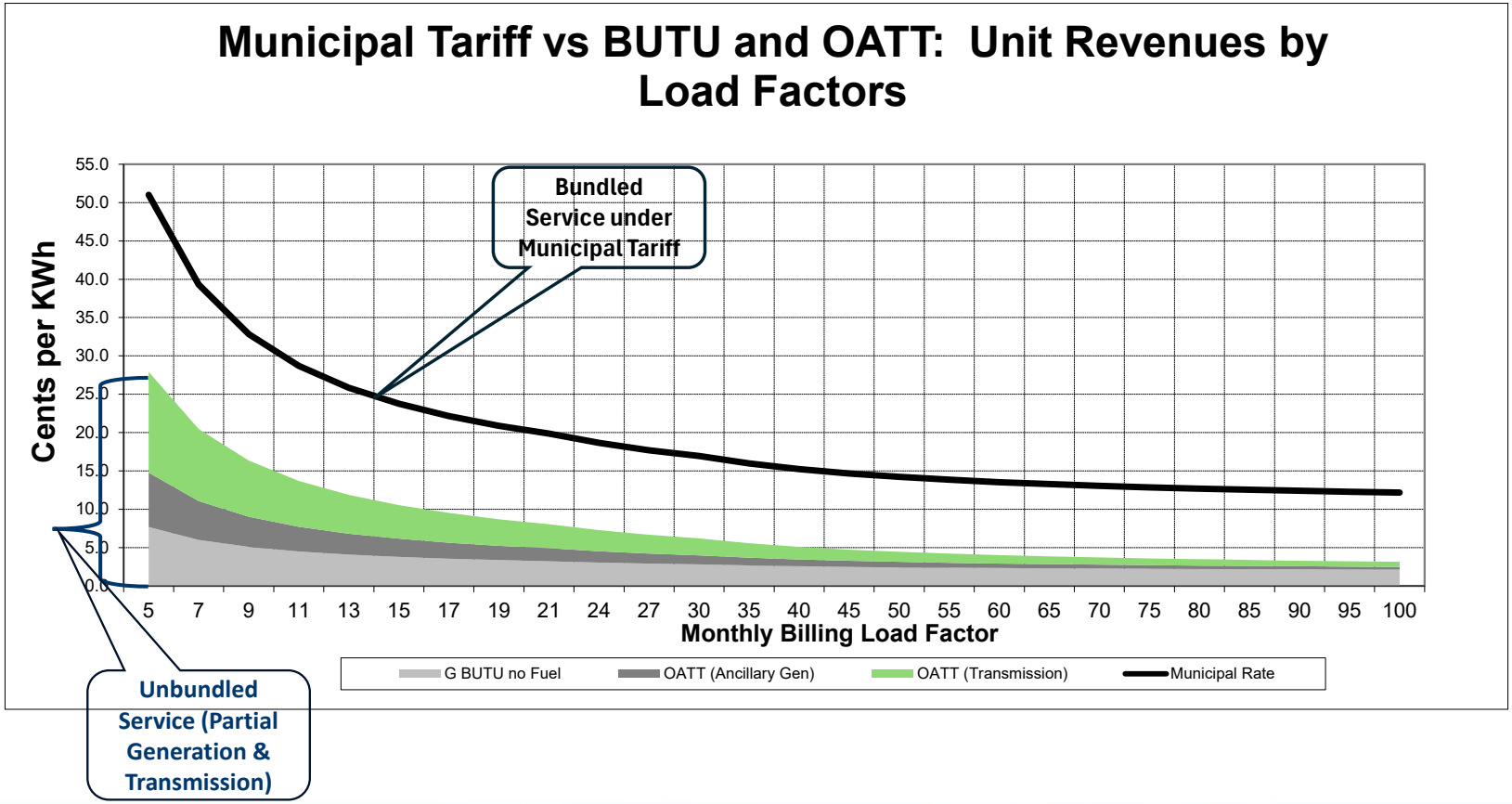
Bundled Rate Class Specific (Not Applicable to Wholesale Munis)

How do rates applicable to MEUs compare?

- Municipal Tariff Rates
  - Revenue requirement reflects costs of three services areas of generation, transmission and retail
  - As above-the-line (ATL) & FAM rates they are subject to cost deferrals, rate capping and smoothing, their cost requirements are subject to R/C ratio adjustments, and fuel cost adjustments.
  - Use two-part tariff of Energy charges and Demand charges (applicable to ratcheted non-coincident demands)
- Open Market rates
  - reflect costs of only one service area at a time: generation vs transmission.
  - As partial service rates they are not typically subject to smoothing and caps.
    - BUTU rate has been subject to the FAM and a four-year phase-in during transition from a marginal to embedded cost-based rate in years 2023-2026.
  - In case of OATT costs are reflective of formula-based revenue requirement
  - Use of contract or coincident peak demands instead of non-coincident demands under the BUTU Tariff.

- Due to the two-part design nature of these rates the best way to compare them is to use unit revenue curves by load factors.

Unit Revenue Curves in two markets at a glance



More detailed Comparison

Municipal Tariff Charges (In effect)

	Demand			Energy			Customer
	Fuel	Non-Fuel	Total	Fuel	Non-Fuel	Total	
Generation	$0.000	$8.748	$8.748	7.035	2.235	9.270	$0.0
Transmission	$0.000	$3.184	$3.184	-	0.518	0.518	$0.0
Distribution	$0.000	$0.000	$0.000	-	-	-	$0.0
Retail	$0.000	$1.496	$1.496	-	0.345	0.345	$0.0
Total	$0.000	$13.428	$13.428	7.035	3.098	10.133	$0.0

OATT Tranmission Charges (In Effect)

	Demand			Energy			Customer
	Fuel	Non-Fuel	Total	Fuel	Non-Fuel	Total	
Generation	$0.000	$2.33	$2.334	-	-	-	$0.0
Transmission	$0.000	$4.318	$4.318	-	-	-	$0.0
Distribution	$0.000	$0.000	$0.000	-	-	-	$0.0
Retail	$0.000	$0.000	$0.000	-	-	-	$0.0
Total	$0.000	$6.651	$6.651	-	-	-	$0.0

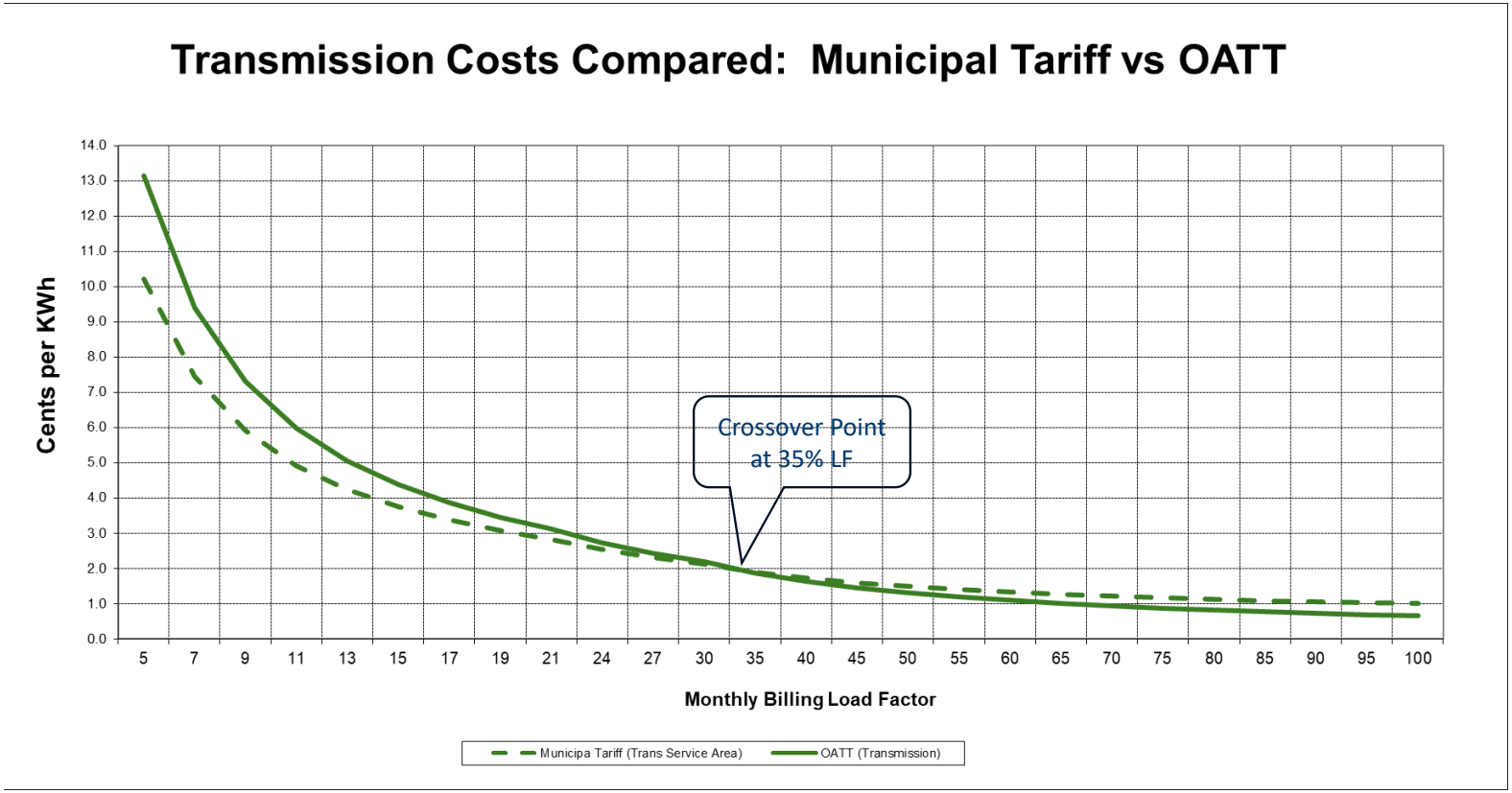
BUTU Tariff Charges (In effect)

	Demand			Energy			Customer
	Fuel	Non-Fuel	Total	Fuel	Non-Fuel	Total	
Generation	$4.202	$1.915	$6.117	7.926	1.840	9.766	$386.1
Transmission	$0.000	$0.000	$0.000	-	-	-	$0.0
Distribution	$0.000	$0.000	$0.000	-	-	-	$0.0
Retail	$0.000	$0.000	$0.000	-	-	-	$0.0
Total	$4.202	$1.915	$6.117	7.926	1.840	9.766	$386.1

EBS/SS Tariff Charges (In effect)

	Demand			Energy			Customer
	Fuel	Non-Fuel	Total	Fuel	Non-Fuel	Total	
Generation	$0.000	$3.397	$3.397	8.322	3.264	11.586	$772.3
Transmission	$0.000	$0.000	$0.000	-	-	-	$0.0
Distribution	$0.000	$0.000	$0.000	-	-	-	$0.0
Retail	$0.000	$0.000	$0.000	-	-	-	$0.0
Total	$0.000	$3.397	$3.397	8.322	3.264	11.586	$772.3

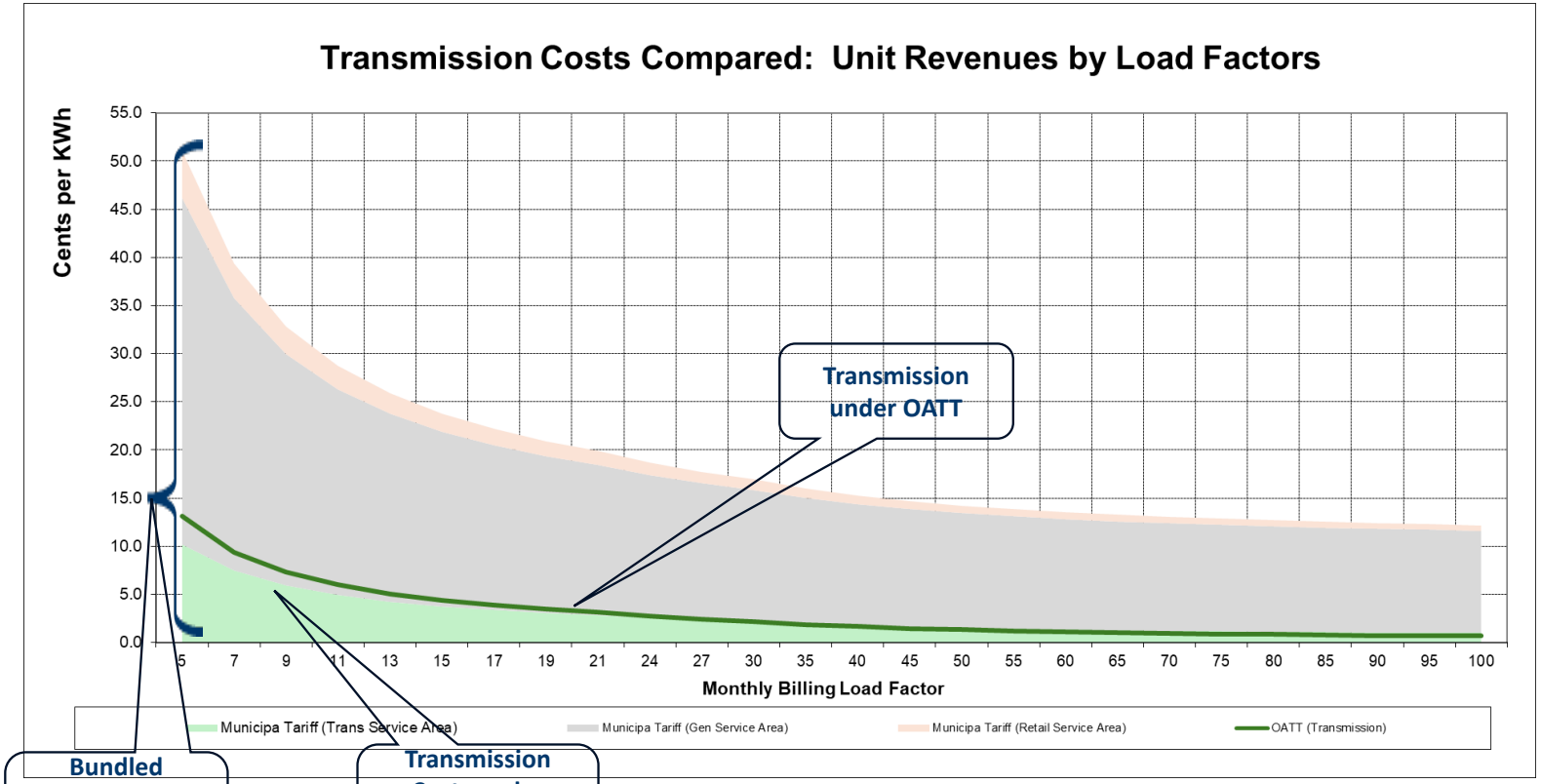
Transmission Costs Compared: Unbundled Municipal Tariff vs OATT



Simulated Transmission Costs Compared: OATT vs Municipal Tariff

		Bottom Energy Block			Top Energy Block			Total Load		
	Charges	Usage	Revenue		Usage	Revenue		Usage	Revenue	
	(c/kWh or $/kW)		Amount	c/kWh		Amount	c/kWh		Amount	c/kWh
Monthly Load Factor		**100.0%**			**56.7%**			**70.9%**		
Transmission	**OATT**									
Annual Energy (MWhs)	NA	16,560.60	0		20,804.47	0		37,365.08	0	
Sum of 12 Monthly Demands (MWs)	$4.318	22.70	$97,987	0.592	89.67	$387,142	1.861	112.36	$485,128	1.298
Total			$97,987	0.592		$387,142	1.861		$485,128	1.298
Transmission	**Municipal Tariff**									
Energy (MWhs)	0.518	16,560.60	$85,704	0.518	20,804.47	$107,666	0.518	37,365.08	$193,370	0.518
Sum of 12 Monthly Demands (MWs)	$3.184	22.70	$72,253	0.436	89.67	$285,467	1.372	112.36	$357,720	0.957
Total			$157,956	0.954		$393,134	1.890		$551,090	1.475
Variance % (OATT/Municipal-1)										
Energy (MWhs)	NA	0.0%	NA	NA	0.0%	NA	NA	0.0%	NA	NA
Sum of 12 Monthly Demands (MWs)	35.6%	0.0%	35.6%	35.6%	0.0%	35.6%	35.6%	0.0%	35.6%	35.6%
Total			-38.0%	-38.0%		-1.5%	-1.5%		-12.0%	-12.0%

Transmission Costs Compared: Unbundled Municipal Tariff vs OATT in context of total service costs



Nova Scotia POWER
An Emera Company

Transmission Cost Comparison Recap

- 2024 Blended unit transmission costs (c/kWh) are lower under the OATT than the Municipal Tariff over a broad range of load factors starting at LF of 35%.
- MEUs pay currently less for transmission under the OATT than the Municipal Tariff.
- In view of the fact that
  - Current OATT was capped at 1.8% increase in 2023/2024 GRA and
  - the bundled service cost to OATT MEUs is higher than in the current 2023 COSS

  the above results may need to be reassessed once the costing methodology is revised as result of this proceeding.

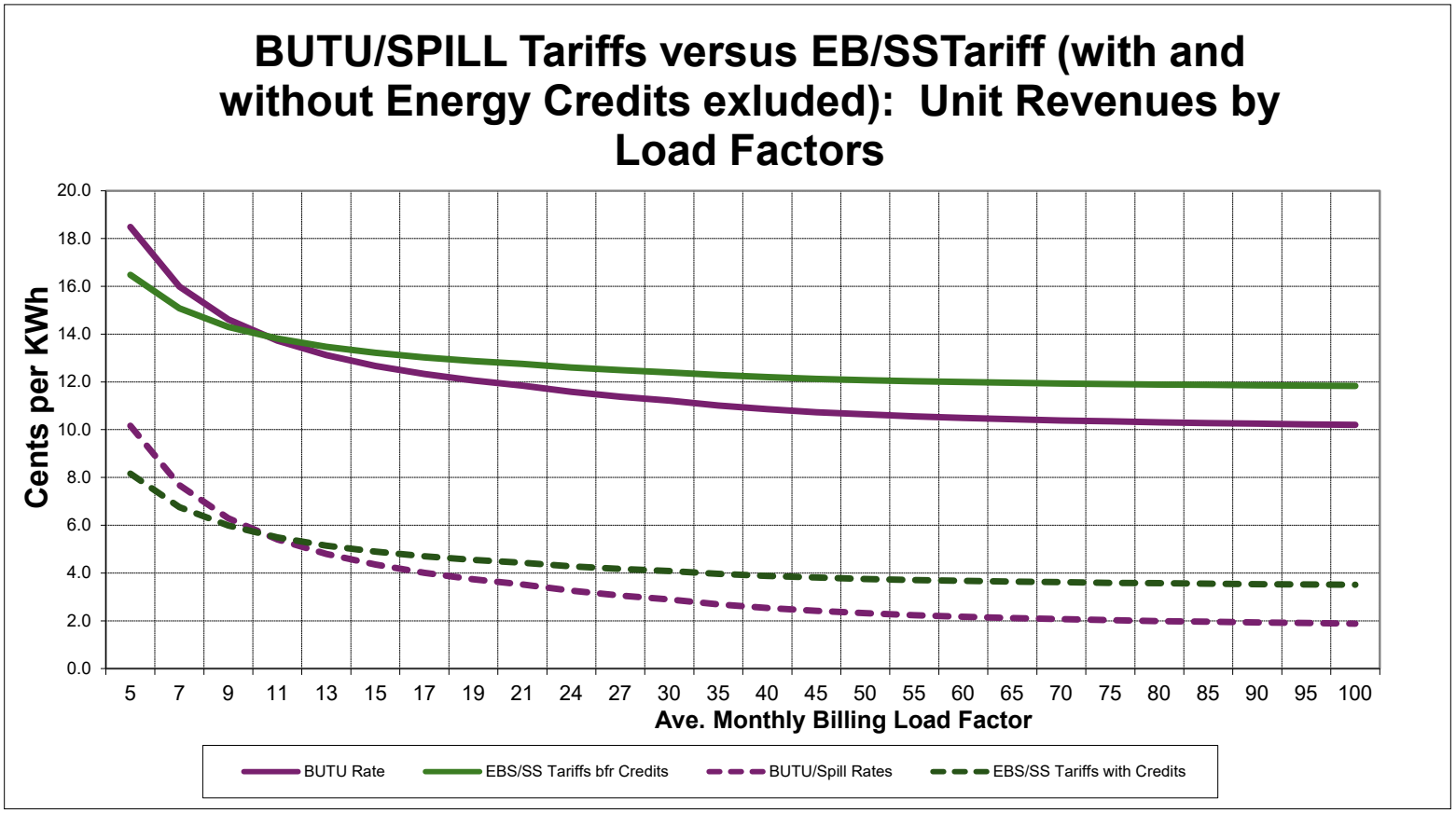
Pricing of electric services to Wholesale Municipalities in bundled in wholesale markets

How do rate in wholesale and RtR markets compare?

Differences in services and rates between Wholesale and RtR markets

- The wholesale and RtR market services and rates were subject to separate regulatory proceedings
  - Wholesale market is designed to meet needs of 5 MEUs who run their own distribution system grids serving thousand of their own customers. Its optional services were approved in three proceedings: 2005 OATT, 2009 BUTU and Spill, 2021 BUTU Amendment
  - RtR market is designed to meet needs of retail customers served through Licensed Retail Suppliers (please see section on Renewable to Retail Markets in presentation from Session #8).
  - The service and rate design in the RtR market was fashioned on that in the wholesale market and amended and approved upon, as deemed appropriate, to accommodate specific needs of the RtR market.
    - The energy balancing and capacity backup services were provided through EBS and SS Tariffs which no longer used scheduled hourly energy imbalances, as is the case under the BUTU, for pricing purposes but rather actual hourly imbalance. This led to development of a separate Schedule 4A: Generation Forecasting Service under the OATT which replaced application of Schedule 4 Energy Imbalance Service in the retail market.
    - The rationale for these changes was examined in the proceeding (see responses to Multeese DR-33, Scotian WindFields DR-3 in M06214)

Pricing of Energy Balancing and Standby Demand Services: Wholesale vs Retail Markets



Simulated Energy Balancing and Standby Demand Costs Compared: Wholesale vs RtR Markets

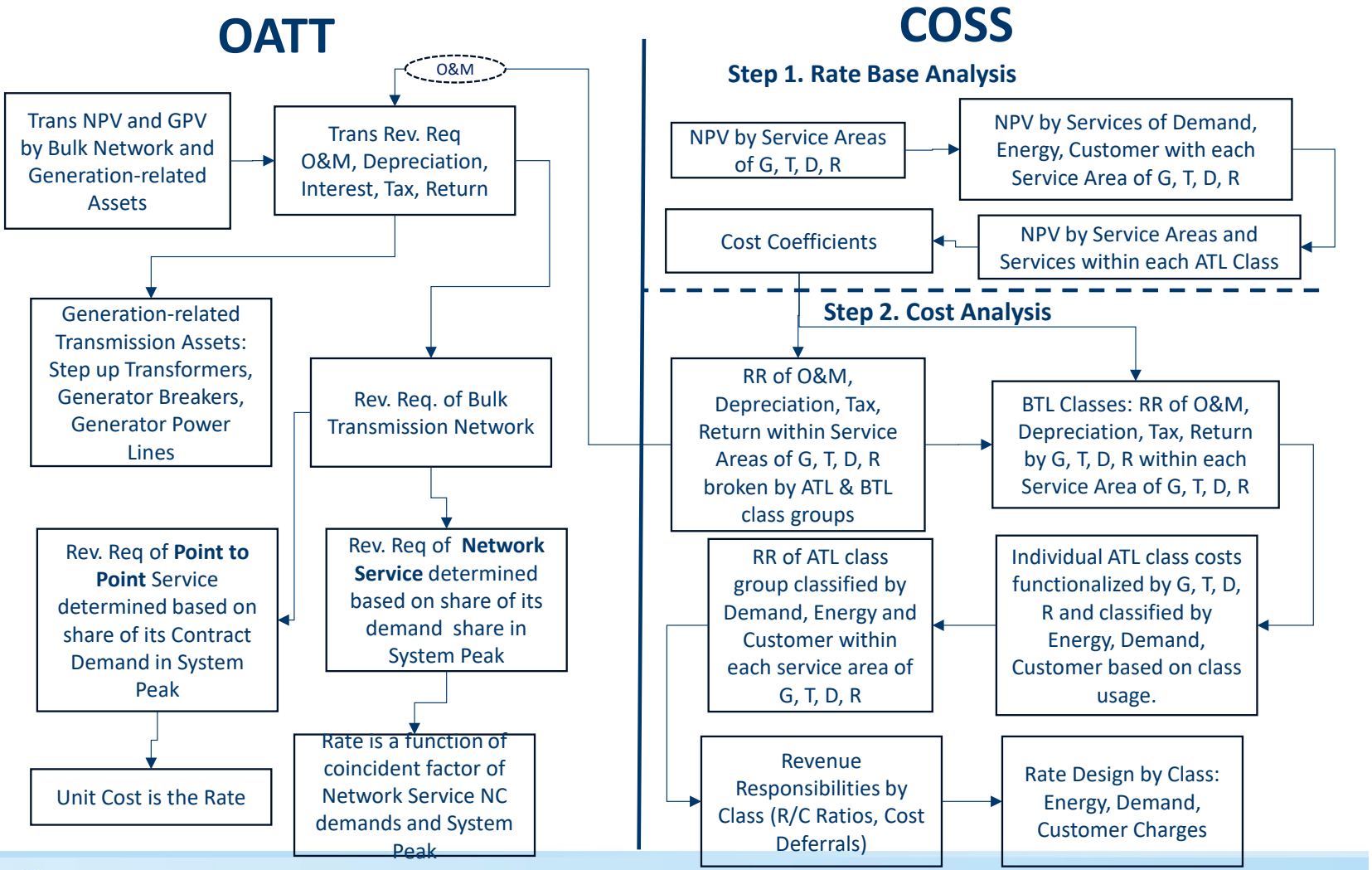
		Bottom Energy Block		
	Charges	Usage	Revenue	
	(c/kWh or $/kW)		Amount	c/kWh
Monthly Load Factor		50.0%		
BUTU & SPILL	Wholesale Market			
Annual Energy Topup (MWhs)	9.766	8,280.30	$808,677	9.766
Annual Energy Spill (MWhs)	(8.322)	8,280.30	($689,087)	(8.322)
Sum of 12 Monthly Contract Demands (MWs)	$6.117	22.70	$138,830	1.677
Credit for Capacity Contribution	($6.117)	12.07	($73,818)	(0.891)
Total			$184,602	2.229
EBS/SS	**Retail Market**			
Annual Energy Topup (MWhs)	11.586	8,280.30	$959,343	11.586
Annual Energy Spill (MWhs)	(8.322)	8,280.30	($689,048)	(8.322)
Sum of 12 Monthly Demands (MWs)	$3.397	22.70	$77,088	0.931
Credit for Capacity Contribution	($3.397)	11.95	($40,590)	(0.490)
			$306,794	3.705
Variance % (RtR/Wholesale -1)				
Total			166.2%	166.2%

Recap: How do rates in wholesale and retail markets compare?

- Charges for energy balancing and standby capacity services are less in the wholesale market over a broad range of load factors starting at 10% LF because
  - Non-fuel cost recovery under the BUTU Tariff is less in 2024 which is the second year of the 4-year phase-in period within which the non-fuel costs in the wholesale market will be aligned with those in the RtR.
  - The 2024 marginal fuel cost-based credit of 8.322 c/kWh is more than the base cost of fuel of 7.926 c/kWh in 2024 under the BUTU Tariff while under the EBS Tariff the credit and fuel cost charge are the same.

Proposed OATT Amendments

Transmission Cost and Rate Design Processes Compared



Differences in Transmission Revenue Requirements

Expense (In thousands of dollars)	2013			2014		
	OATT	COSS	% Var	OATT	COSS	% Var
Operating, Maintenance and General OM&G)	$26,586	$26,104	2%	$26,762	$26,286	2%
Depreciation	$24,072	$26,167	-8%	$25,639	$28,866	-11%
Int. Tax/Return	$54,643	$46,252	18%	$59,543	$50,499	18%
Fixed Cost Recovery (FCR) Deferral	$3,216	$2,968	8%	$3,342	$3,118	7%
Total	**$108,517**	**$101,490**	7%	**$115,286**	**$108,769**	6%

Source: Multeese IR-51, 2013 GRA P-893)

Expense (In thousands of dollars)	2023 (As filed)			2023 (Corrected after being filed)		
	OATT	COSS	% Var	OATT	COSS	% Var
Operating, Maintenance and General OM&G)	$22,107	$28,749	-23%	$28,678	$28,749	0%
Depreciation	$24,517	$35,928	-32%	$27,880	$35,928	-22%
Int. Tax/Return	$107,126	$74,519	44%	$94,304	$74,519	27%
Fixed Cost Recovery (FCR) Deferral	$0	$0	NA	$0	$0	NA
Total	**$153,750**	**$139,196**	10%	**$150,862**	**$139,196**	8%

Source: M10431 2023-2024 GRA SR-01 Attachment, Page 2, Figure 5-9)

Transmission Revenue Requirement: O&M Calc

OATT

	Control Centr	Other	Total
Direct	2,978	12,109	15,087
Corporate OH	2,682	10,909	13,591
Total	5,660	23,018	28,678

Source: OMG Calc tab

COSS

Direct	15,087
Corporate OH	13,662
Total	28,749

Source: Exh 4.1

- The discrepancy between Corporate OH is due to determination of OATT value based on share of transmission in Corporate OH of only the above-the-line classes rather system total which includes below-the-line (BTL) classes.
- The breakdown of the BTL classes by functional areas was not available at the time of the 2023-2024 GRA. It was calculated in a new Exh 4.1 of 2023 COSS for the purpose of this presentation.

Transmission Revenue Requirement: Depreciation Calc (in millions of $'s)

OATT

	Gross Plant Value		WACC		Amount
Transmission	$1,228.3				
Less Distr-related Invest.	($229.8)				
Non-depreciable land	($12.9)				
Subtotal	$985.7	X	2.39%	=	$23.5
Transmission-related General Property					
General Property	$825.5				
Share Applicable to Transmission					
All Service Areas bfr General P	$7,000.8				
Transmisission inclusive of La	$998.6				
Relative Share of Transmissio	14.3%				
Applicable General Property	$117.7	X	6.29%	=	$7.4
Subtotal	$1,103.4				**$30.9**

Tax Deduction (millions of $'s)					
	Rate Base		**Factor**		
UCC Balance	$1,103.4	X	0.75	=	$827.6
CCA Deduction	($827.6)	X	4.0%	=	($33.1)
Plus Depreciatoin Expense					$30.9
Net tax expense (deduction)					($2.2)
Tax Impact					-
	($2.17)	/	0.71	=	($3.1)
Less Net Tax Impact					($2.2)
Subtotal					($0.9)
Total Tax Effect					**($3.1)**

Total Depreciation	**$27.9**

Source: Total Asset Tab, Depr Calc Tab

COSS

Transmission (millions of $'s)			
Depreciation Account (As per Accounting System)			$29.9
Adjustment for Distribution-related investment			($5.0)
Subtotal			$24.9
General Property (millions of $'s			
Total Depreciation Expense (As per Accounting Syste	$53.52		
Share Applicable to Transmission			
Total Ratebase	$4,080.5		
Transmission	$947.2		
Transmission Rate Base bfr Adjustment	($113.4)		
Subtotal	$833.8	20.4%	$10.9
Total Depreciation Expense Applicable to Transmission			$35.9

Source: Exh 4.1, Input Data Tab

Depreciation – differential between $27.9 M and $35.9 M is due to use of formulaic approach under OATT (average depreciation rate * gross plant) vs accounting costs under COSS.

Transmission Revenue Requirement: Tax, Interest, Return
(in millions of $'s)

OATT

	Net Plant Value	Share	Applicable Value
Transmission			$833.8
Plus Applicable Share of			
General Property	$444.6	20.4%	$90.9
Working Capital	$648.7	20.4%	$132.6
Total			$1,057.2
	NPV	WACC	
Interest	$1,057.2	2.84%	$30.06
Common	$1,057.2	3.72%	$39.30
Income Tax	$1,057.2	1.52%	$16.05
Grants in Lieu	$1,057.2	0.84%	$8.90
Total		8.92%	$94.30

- Interest Tax Return – differential between $94.3 M and $74.2 M is due to use of formulaic approach under OATT (tax adjusted WACC * Transmission rate base) vs functionalization of total values based on shares in service area rate base.

COSS

Net Plant Value	System NPV		Transmission NPV			
	Amount	Cumulative	Applicable Share	Amount	Cumulative	% Share in System Cumulative
Service Areas	$4,079.5	$4,079.5		$833.8	$833.8	
General Property	$444.6	$4,524.1	20.4%	$90.86	$924.7	20.4%
Working Capital	$648.7	$5,172.8	11.4%	$73.97	$998.7	19.3%

Operating Expenses	
Transmission	$100.4
System Total	$1,401.6
Transmission Share	7.2%

Expense Allocation	System Expense	Applicable Share	Transmission
Interest	$120.2	19.3%	$23.2
Common	$192.2	19.3%	$37.1
Income Tax	$26.6	19.3%	$5.1
Grants in Lieu	$43.5	20.4%	$8.9
Misc Rev Credit	($2.6)	7.16%	($0.2)
Total	$379.9		$74.2

Proposed Amendment to OATT Revenue Req.

(Source: 2023 COSS and OATT spreadsheets)

EXHIBIT 4.1

NOVA SCOTIA POWER INC.

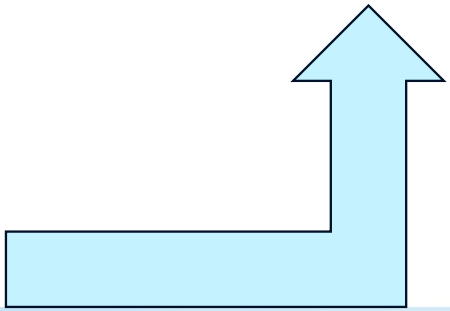
TRANSMISSION OPERATING EXPENSES

FOR THE YEAR ENDING DECEMBER 31, 2023

(IN THOUSANDS OF DOLLARS)

	ABOVE-THE-LINE RATE CLASSES	BELOW-THE-LINE RATE CLASSES	TOTAL
OPERERATION & MAINTENANCE			
DIRECT	14,839	248	15,087
NON-DIRECT	13,437	225	13,662
TOTAL OPER. & MAINT.	28,276	473	28,749
DEPRECIATION			
DIRECT	24,524	411	24,935
GENERAL PROPERTY	10,812	181	10,993
TOTAL DEPRECIATION	35,336	592	35,928
TAX			
CORPORATE TAX	2,756	46	2,802
REGULATORY AMORTIZATION	2,316	39	2,354
GRANTS IN LIEU OF TAXES	8,796	147	8,943
TOTAL TAX	13,868	232	14,100
INTEREST			
TOTAL BEFORE AFUDC	23,147	387	23,535
LESS: AFUDC INTEREST	(209)	(3)	(213)
INTEREST TOTAL	22,938	384	23,322
RETAINED EARNINGS	36,680	614	37,294
MISCELLANEOUS REVENUE CREDIT	(197)	-	(197)
TOTAL	136,901	2,295	139,196

Expense (In thousands of dollars)	2023 (Corrected after being filed and Amended)		
	OATT	COSS	% Var
Operating, Maintenance and General OM&G)	$28,749	$28,749	0%
Depreciation	$35,927	$35,928	0%
Int. Tax/Return	$74,519	$74,519	0%
Fixed Cost Recovery (FCR) Deferral	$0	$0	NA
Total	**$139,195**	**$139,196**	0%



Proposed Amendment to OATT Revenue Req.

(source: "Trans-Fig 5-9" tab in OATT Spreadsheet)

- 2023 as corrected after being filed

Asset Category	Gross Plant (Note 1)	Net Plant (Note 1)	OM&G Expense	Depreciation Expense	Int., Taxes & Return Exp	FCR Deferral	Total Expenses
Generation Related Transmission Assets:							
Step Up Transformers	$18,006	$15,995	$344	$465	$1,427	$0.00	$2,236
Radial to Generation	41,984	37,295	801	1,085	3,327	$0.00	$5,213
Generator Breakers	7,590	6,743	145	196	601	$0.00	$942
Total Gen. Related Transmission Assets	67,580	60,033	1,290	1,746	5,355	0	$8,391
Bulk Network:							
Total Equipment	1,141,261	997,212	21,728	26,134	88,949	0	136,811
Total Transmission Assets	**$1,208,841**	**$1,057,244**					
Scheduling, System Control & Dispatch (Note 2)			5,660				5,660
Total Transmission Revenue Requirement			**$28,678**	**$27,880**	**$94,304**	**$0**	**$150,862**

- 2023 as corrected after being filed and amended

Asset Category	Gross Plant (Note 1)	Net Plant (Note 1)	OM&G Expense	Depreciation Expense	Int., Taxes & Return Exp	FCR Deferral	Total Expenses
Generation Related Transmission Assets:							
Step Up Transformers	$18,006	$15,995	$344	$465	$1,427	$0.00	$2,236
Radial to Generation	41,984	37,295	803	1,085	3,327	$0.00	$5,215
Generator Breakers	7,590	6,743	145	196	601	$0.00	$942
Total Gen. Related Transmission Assets	67,580	60,033	1,292	1,746	5,355	0	$8,393
Bulk Network:							
Total Equipment	1,141,261	997,212	21,782	34,181	69,164	0	125,127
Total Transmission Assets	**$1,208,841**	**$1,057,244**					
Scheduling, System Control & Dispatch (Note 2)			5,675				5,675
Total Transmission Revenue Requirement			**$28,749**	**$35,927**	**$74,519**	**$0**	**$139,194.7**

Proposed Amendment to OATT Revenue Req: Rate Effect

Schedule	Description	$ / MW 2023 as filed based on Costs and Corrected	$ / MW 2023 based on Costs as Amended	% Change
Schedule 1	Sched., Sys. Cntrl. & Disp. For Point-To-Point/Monthly	$240.02	$240.66	0.27%
Schedule 1	Sched., Sys. Cntrl. & Disp. For Network Service/Rate Monthly	$218.42	$219.00	0.27%
Schedule 2	Reactive Supply & Voltage Control/Pt-to-Pt/Monthly	$187.82	$187.82	0.00%
Schedule 2	Reactive Supply & Voltage Control/Network Services/Monthly	$170.89	$170.89	0.00%
Schedule 3	Regulation and Frequency Respponse Service (Regulation Point to Point)/Monthly	$218.90	$218.90	0.00%
Schedule 3	Regulation and Frequency Respponse Service (Regulation Network)/Monthly	$218.90	$218.90	0.00%
Schedule 3	Regulation and Frequency Respponse Service (Load Following Point to Point)/Monthly	$1,478.68	$1,478.68	0.00%
Schedule 3	Regulation and Frequency Respponse Service (Load Following Network)/Monthly	$1,478.68	$1,478.68	0.00%
Schedule 5	Operating Reserve - Spinning Reserve Service (Point-to-Point)/Monthly	$208.21	$208.21	0.00%
Schedule 5	Operating Reserve - Spinning Reserve Service (Network)/Monthly	$208.21	$208.21	0.00%
Schedule 6	Operating Reserve - Supplemental Reserve Service (10 min Point-to-Point)/Monthly	$794.10	$794.10	0.00%
Schedule 6	Operating Reserve - Supplemental Reserve Service (10 min Network)/Monthly	$794.10	$794.10	0.00%
Schedule 6	Operating Reserve - Supplemental Reserve Service (30 min Point-to-Point)/Monthly	$354.56	$354.56	0.00%
Schedule 6	Operating Reserve - Supplemental Reserve Service (30 min Network)/Monthly	$354.56	$354.56	0.00%
Schedule 7, 8	OATT Point-To-Point Transmission Service/Monthly	5,801.94	5,306.44	-8.54%
Schedule 10	OATT Network Transmission Service/Monthly Billing	$5,279.91	$4,828.99	-8.54%
Point-toPoint				
Ancillary Generation		$3,482.28	$3,482.91	0.02%
Transmission		$5,801.94	$5,306.44	-8.54%
Subtotal		$9,284.22	$8,789.36	-5.33%
Network				
Ancillary Generation		$3,443.75	$3,444.33	0.02%
Transmission		$5,279.91	$4,828.99	-8.54%
Subtotal		$8,723.66	$8,273.32	-5.16%

Proposed Amendment to OATT Revenue Req

- In general, a direct application of transmission cost requirement, as a data input into transmission rate under the OATT, would have the following effects.
  - It would help eliminate differences in transmission revenue requirements between OATT and COSS leading to a closer alignment of rates.
    - OATT Revenue Requirement is currently driven by formulaic approximations which cause departure from test year costs in COSS.
  - Under the proposed amendment there would be minimal changes to the established computation process as only entry level costs of O&M: depreciation, tax, interest and return in the "Revenue" tab of OATT spreadsheet would change. All other calculations are proposed to be left intact except for the removal of the O&M tab which becomes redundant.
    - All the other formulaic calculations around depreciation, interest, tax and return are still required in order to appropriately determine costs associated with assets radial to generation which must be netted out from total transmission revenue requirement applicable to OATT rates.

Questions

Refined Loss Allocation Methodology

A BBA/NSPI Project



All rights reserved. © BBA

Daryn Thompson/Jean Sebastian Lacroix

October 16, 2024

BBA.CA

Refined Loss Allocation Methodology



Project Objectives

To update the Loss Allocation methodology for NSPI customer types leveraging NSPI data, including:

- Transmission data model
- Distribution data model
- Secondary data models
- AMI data and +MV90 data
- Georeferenced Information System (GIS) data

All rights reserved. © BBA

Refined Loss Allocation Methodology

By Customer Class

Working to develop a table of loss allocation per customer types based on their location on the system

Hypothesis includes greater level of complexity vs. accuracy/precision

- Annual losses, 8760 Data vs. load factor calculations
- Non-Technical Losses, assumption vs. calculations
- Secondary Configurations, sampling vs assumptions
- Distribution transformer No-Load Losses, inventory vs. simulation

*By evaluating **annual energy** (GWh) and **annual energy losses** (GWh) on each network segments, and evaluating **energy sold by each customer type**, we can compute loss allocation per customer types with a certain level of accuracy*

All rights reserved. © BBA

Refined Loss Allocation Methodology

Methods to evaluate energy delivered and annual energy losses

Network segments	Phase 1 - Method 1
Transmission Lines	PSSe software simulations using 8760 data
Substations Power Transformers No-Load Losses Load Losses	Inventory calculations
Distribution Lines	CYME software simulations at Peak using AMI data
Distribution Transformers No-Load Losses Load Losses	Inventory calculations – Information gathered from GIS
Secondary Lines Commercial and industrial Residential	Inventory calculations – Information gathered from GIS
Non-Technical Losses	Estimation based industry based reports

All rights reserved. © BBA

Preliminary results

Network Segment	Peak Power (delivered by component) (MW)	Annual Energy (delivered by component) (GW-h)	Power Loss at Peak (MW)	Power Loss at Peak (% of total)	Annual Energy Loss (GW-h)	Annual Energy Loss (% of total)	Annual Energy Loss as % of total energy sold
Transmission Line	2403	**11102**	102	4.2%	**252**	34%	2.27%
Substations Tranformers and Distribution Line	1794	**8291**	52.5	2.9%	**145**	20%	1.31%
Substation No-Load Losses	1794	**8291**	52.5	2.9%	**17**	2%	0.15%
Distribution Transformer No Load	1550	**8500**	11.5	0.7%	**101**	14%	0.91%
Distribution Transformer Load	1550	**8500**	18.3	1.2%	**56**	8%	0.50%
Secondary Line - Commercial and Industrial	700	**3515**	4.01	0.6%	**12**	2%	0.11%
Secondary Line - Residential	800	**4900**	5.77	0.7%	**18**	2%	0.16%
Meters and other equip.	1450	**8500**	0.43	0.03%	**4**	1%	0.03%
Non-technical	2403	**11102**		1.20%	**133**	18%	1.20%
Totals	**2403**	**11102**	**246**	**14.5%**	**738**	**100%**	**6.65%**

Customer Type	Energy Sold Step 1	Annual Energy Losses per segment - GWh Step 2	Annual Energy Losses per customer Step 3	Tech Loss Allocation Step 4	Non-Techn. Loss Allocation Step 5	Transm. Loss Allocation Step 6	Loss Allocation Step 7
Transmission Cust.	17%	252.3	44	2.27%	1.2%	0%	**3.47%**
Primary Cust.			159	4.52%	1.2%	0.4%	**6.12%**
Secondary Cust.			379	7.73%	1.2%	0.4%	**9.33%**

All rights reserved. © BBA

Next Steps



Road Map

- Develop the Road Map
  - Get more granularity in the results
  - Does More Precision = More Accuracy ?
  - Results are Exponential with Data (8760 data may results in 150,000 runs)
  - What is highest value activity (80/20 rule)
- Examine Transmission Loss Methodology
  - Is the best available data being used in Forecast Methodology?

Phase 2

- Start the Phase 2 of the project – Implementation and validation

All rights reserved. © BBA

Questions?



All rights reserved. © BBA

Refined Loss Allocation Methodology

A BBA/NSPI Project



All rights reserved. © BBA

Jean Sebastian Lacroix

March 07, 2025

BBA.CA

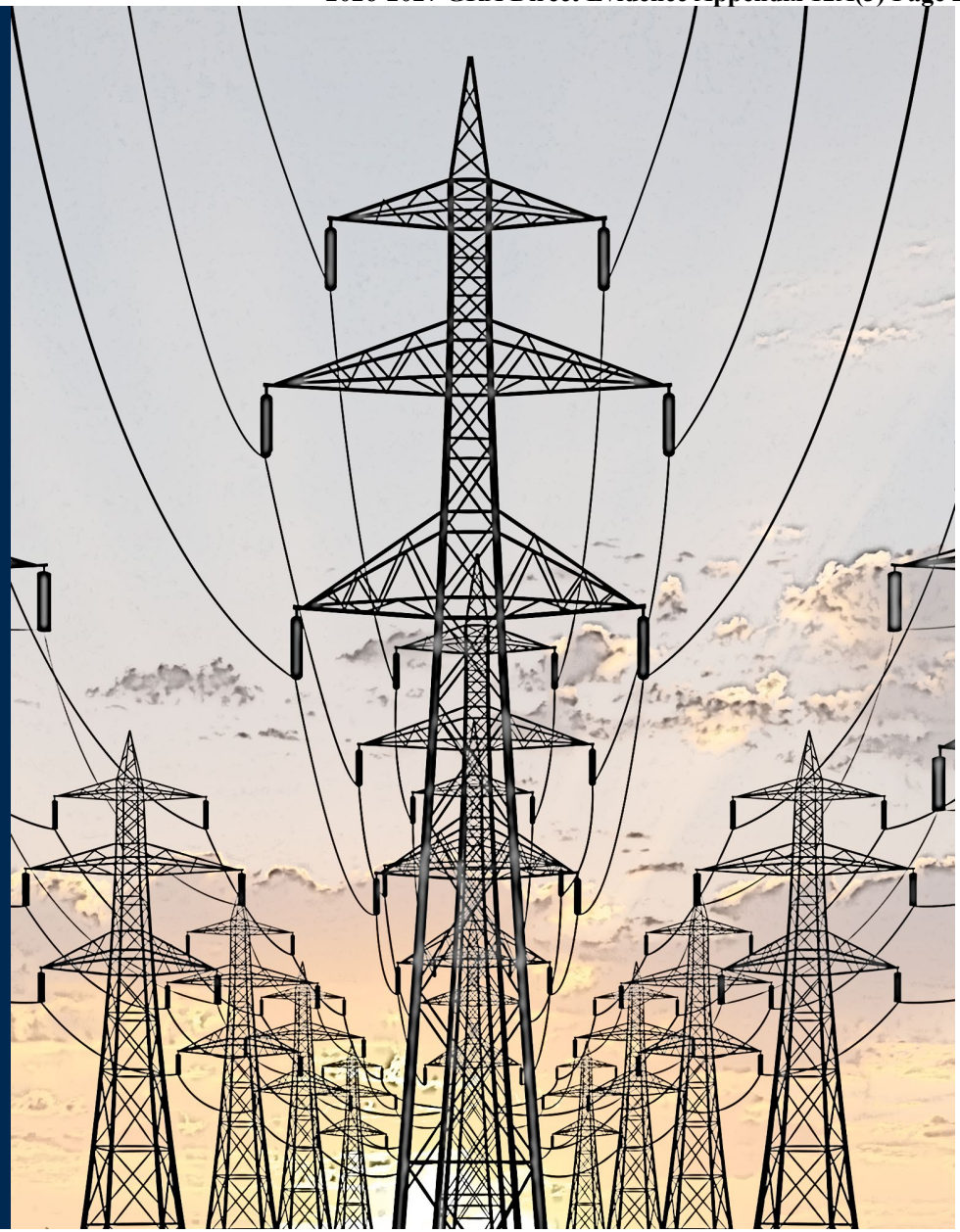
SUMMARY

- Safety Moment
- Network Components
- Who Contributes What ?
- Methodology
- Results
- Questions

All rights reserved. © BBA

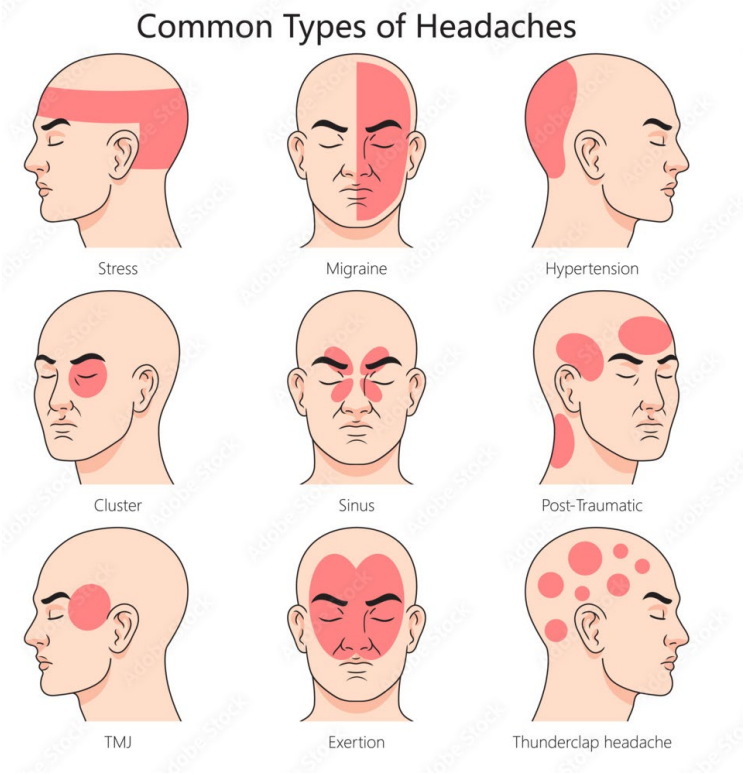
Safety Moment

01



Safety Moment

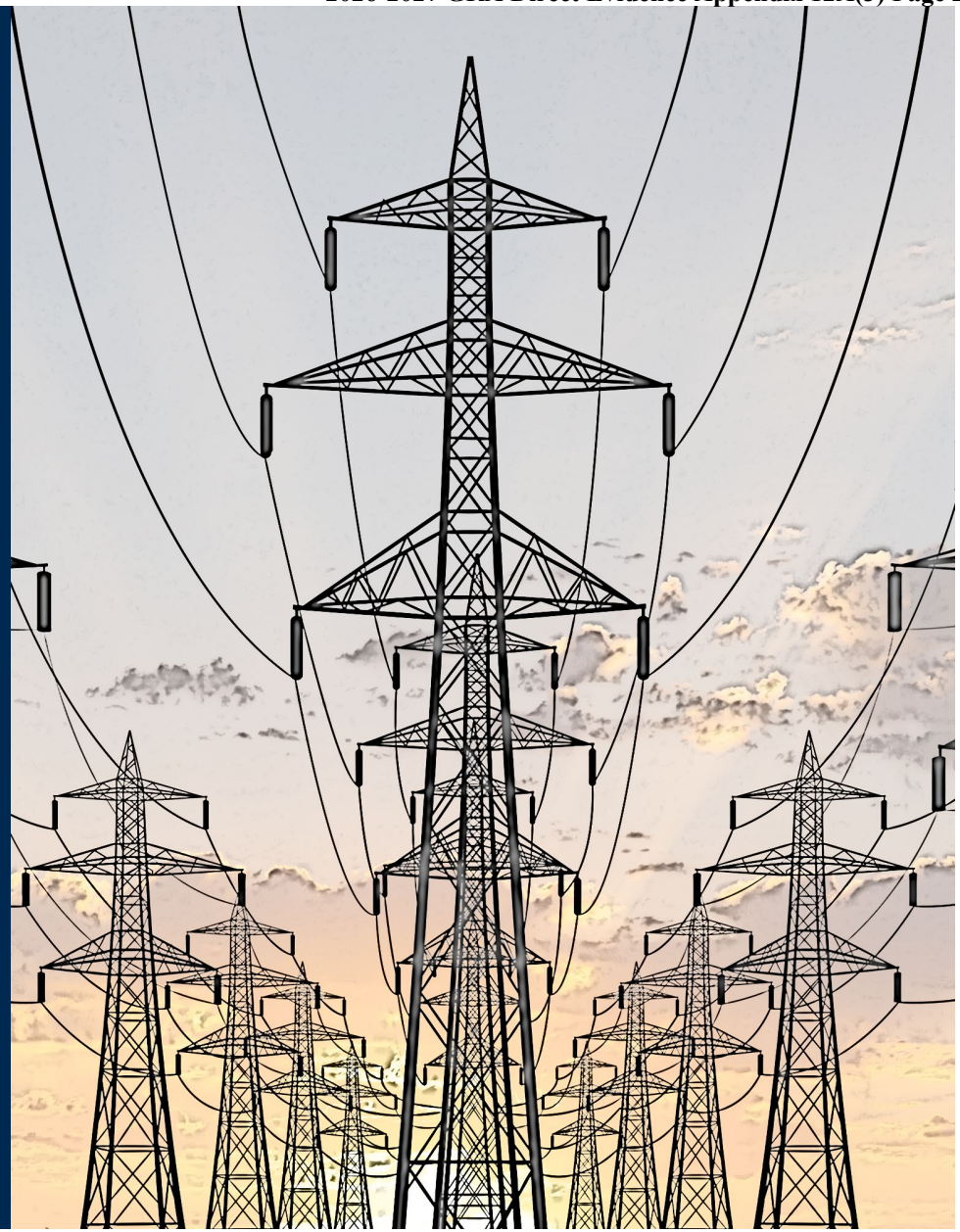
- Never ignore potential health warning signs.
- Prioritize your well-being and seek medical attention when something feels off.



All rights reserved. © BBA

Network Components

02



Network Components

Project objectives

To update the Loss Allocation methodology for NSPI customer types leveraging NSPI data, including:

- Transmission data model
- Distribution data model
- Secondary data models
- AMI data and +MV90 data
- Georeferenced Information System (GIS) data

All rights reserved. © BBA

Network Components

Overall Results

	Network Segment	Peak Power (delivered by component) (MW)	Annual Energy (delivered by component) (GW-h)	Power Loss at Peak (MW)	Power Loss at Peak (% of total)	Annual Energy Loss (GW-h)	Annual Energy Loss (% of total)	Annual Energy Loss as % of total energy sold
Transmission	**Transmission Line**	2403	**11102**	102	4.2%	**258**	34%	2.43%
Distribution	**Substations Tranformers and Distribution Line**	1794	**9707**	53	2.9%	**149**	20%	1.40%
	Substation No-Load Losses	1794	**9707**	38	2.1%	**17**	2%	0.16%
Secondary	**Secondary Line - Load and No-Load Losses**	1550	**8550**	59	3.8%	**189**	25%	1.77%
Non-Technical	**Non-technical**	1794	**9707**	43	2.4%	**143**	19%	1.48%
	Totals	**2403**	**11102**	**294**	**12.2%**	**756**	**100%**	**7.12%**

All rights reserved. © BBA

Network Components

- Methods to evaluate energy delivered and annual energy losses

Network segments	Methodology
Transmission Lines	PSS/E software simulations using 8760 data
Substations Power Transformers No-Load Losses	Inventory calculations
Substations Power Transformers Load Losses Distribution Lines	CYME software simulations at Peak using AMI data
Distribution Transformers No-Load Losses Load Losses Secondary Lines	Inventory calculations – Information gathered from GIS CYME software simulations for secondary losses
Non-Technical Losses	Estimation based industry-based reports + Calibration of models

All rights reserved. © BBA

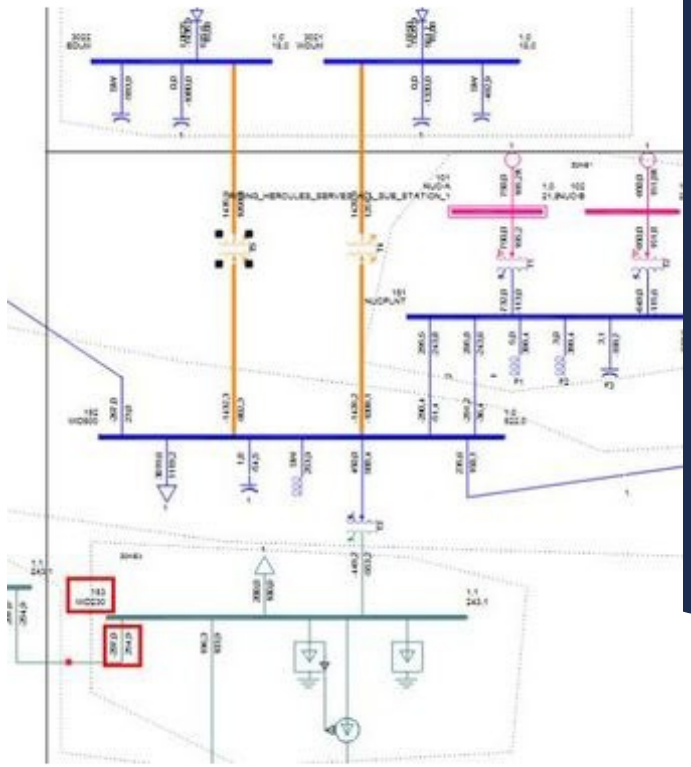
Network Components

Transmission Losses

The Annual Transmission losses were determined through a detailed simulation process PSS/E software. This modeling approach incorporates :

- Hourly (8760) SCADA data, capturing real-time system conditions
- Predefined transformer losses, integrated into the overall transmission loss calculation

Month	Energy (MWh)	Peak (MW)	Peak Loss (MW)	Energy Loss (MWh)	Energy Loss (%)
January	1,112,409	1,921	82	30,858	2.77%
February	1,118,927	2,403	102	33,090	2.96%
March	1,114,369	1,909	58	27,086	2.43%
April	864,685	1,723	52	18,010	2.08%
May	817,315	1,447	55	19,106	2.34%
June	719,041	1,423	30	13,140	1.83%
July	845,437	1,452	35	15,732	1.86%
August	841,338	1,415	36	15,153	1.80%
September	783,881	1,417	30	12,685	1.62%
October	814,919	1,459	45	17,248	2.12%
November	980,174	1,767	50	22,599	2.31%
December	1,100,122	2,008	58	27,804	2.53%
Total	11,112,618	20,345	633	252,511	2.27%



All rights reserved. © BBA

Network Components

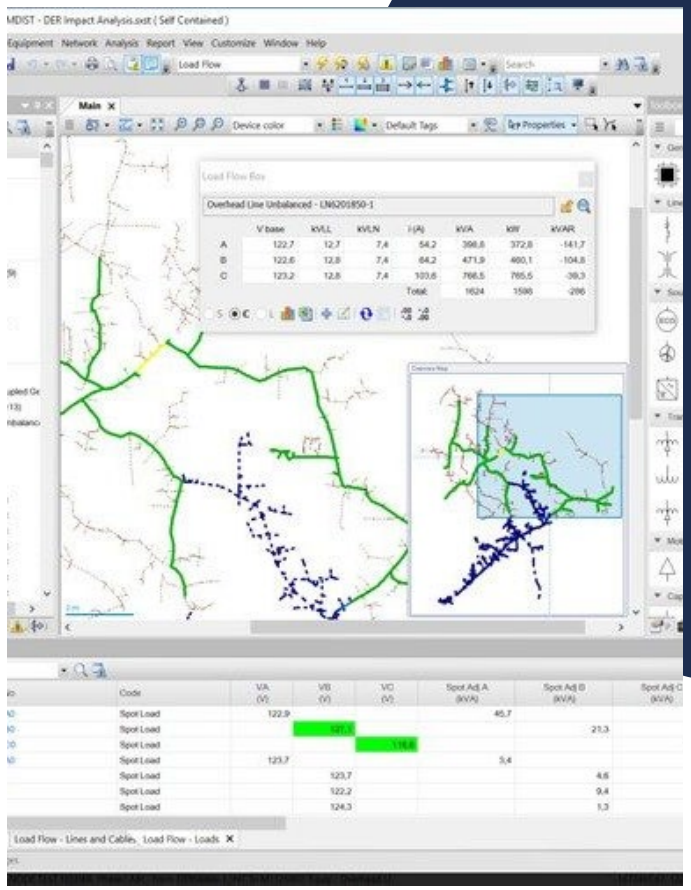
Distribution Losses

The primary distribution losses were estimated using distribution network simulations in CYME software, combined with :

- Load data from AMI (8760) and MV90 meters
- Peak–based loss modeling
- Transformer load loss evaluation
- The Loss factor calculated using the formula $LSF = 0.15\ x\ LF + 0.85\ LF^2$, where the 2023 load factor was 52.8%, yielding a 31.6% loss factor
- Hourly load flows on 7 feeders in CYME resulted in a 49.3% load factor and a 28.3% loss factor closely aligning with formula-based results of 31.6%

Distribution information - NSPI Total networks				
Annual Peak Load (PL) (kW)	Energy in a year (kWh)	load factor (LF)	Loss Factor (Feeder Level)	(Transformer Level)
1,794,284	8,291,795,086	52.75%	31.57%	35.31%

Peak Losses (kW)	Substation NLL Peak (kW)	Substation NLL Energy (kWh)	Annual Energy loss - Feeder (kWh)	Annual Energy Loss %
52,550	1,780	15,592,800	145,320,400	
2.93%	0.10%	0.19%	1.75%	1.94%



Reference : Assessment of transmission and distribution losses in New York (Final report, Appendix B, Equation 3). (2012).

All rights reserved. © BBA

Network Components

Secondary Losses

- GIS and billing data used to determine secondary network typical configuration
- Different secondary configurations considered : Pole-mounted, Padmount, Vault
- CYME load flow analysis performed using AMI data to estimate demand losses
- Loss allocation based on metering data and customer classifications
- Industry formula applied ($LSF = 0.30\ x\ LF + 0.70\ x\ LF^2$) for loss factor calculation
- Annual losses derived by converting peak demand losses over 8,760 hours based on loss factor

Class	Configuration			Total Energy Loss (GWh)	Energy Loss %	Demand Loss %
	Padmount (GWh)	Pole-mounted (GWh)	Vault (GWh)			
(1) DOMESTIC	4.96	103.89	0.51	109.36	2.8%	3.4%
(5) SMALL GENERAL	2.29	7.91	0.19	10.4	3.7%	3.0%
(8) GENERAL	35.36	17.07	3.71	56.14	3.1%	2.7%
(12) SMALL INDUSTRIAL	2.52	2.78	0.03	5.33	2.5%	2.9%
(13) MEDIUM INDUSTRIAL	5.2	0.16	0.33	5.68	1.5%	1.7%
Total				186.91		

All rights reserved. © BBA



Network Components

Non-Technical Losses

Non-technical losses refer to differences between the energy delivered and the energy that is billed or effectively consumed. These losses are primarily caused by :

- Unauthorised consumption
- Metering inaccuracies
- Unaccounted Consumption

As a reference point, we initially adopted an industry benchmark of 1.2% for non-technical losses.

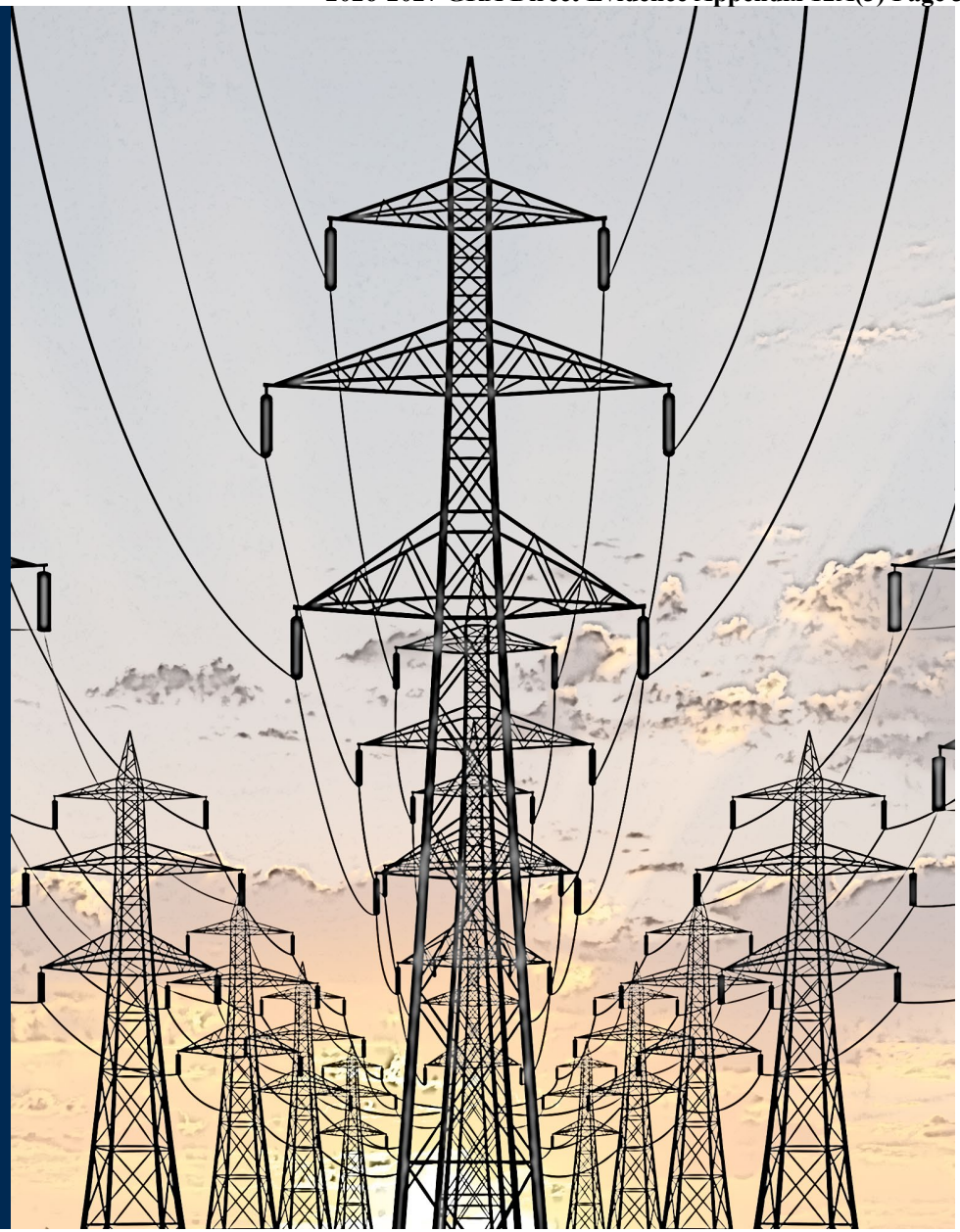
This value was then adjusted based on forecasted energy losses.

Non-technical demand losses were estimated based on the ratio of technical demand to energy losses by class.

Reference : Hydro-One, Distribution Line Loss, 2005.

Who Contributes What ?

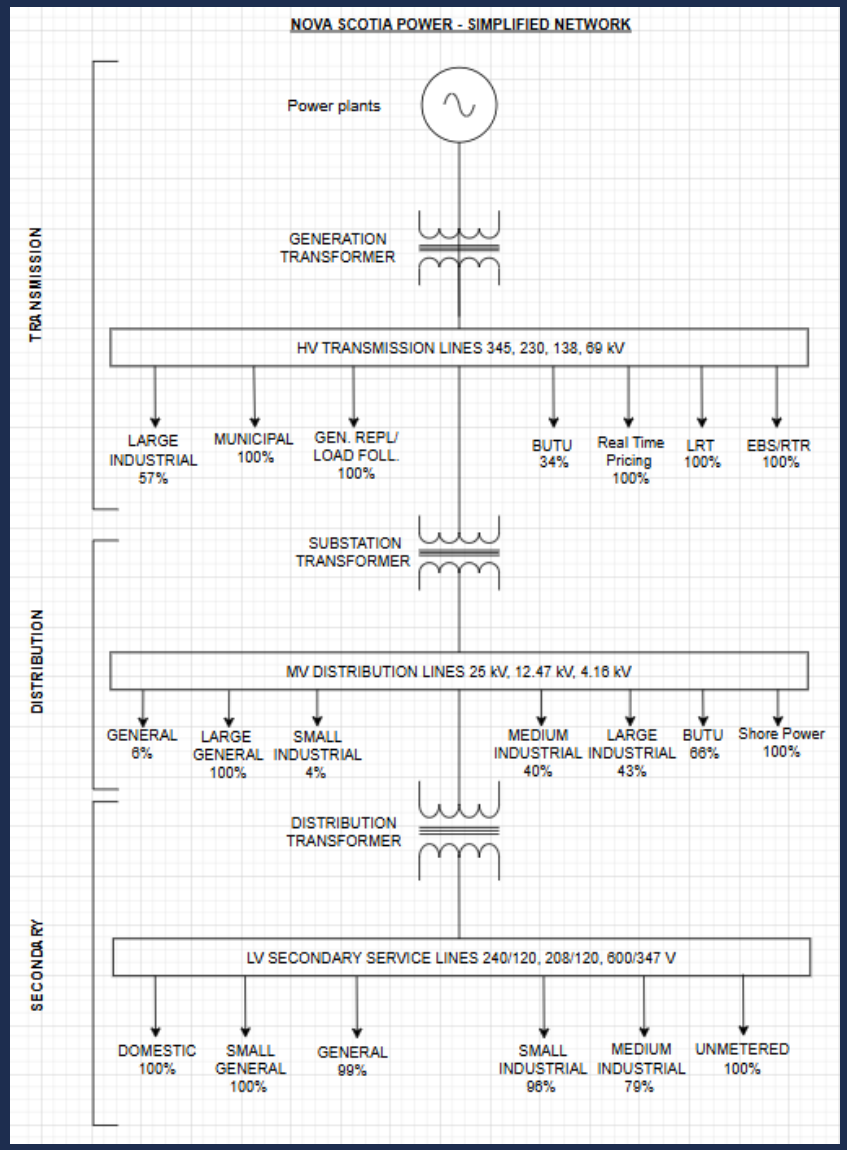
03



Who Contributes What ?

NSPI's network connects customers at different voltage levels, defining their impact on system :

- Secondary-level customers.
- Primary-level customers.
- Transmission-Connected customers.



All rights reserved. © BBA

Who Contributes What ?

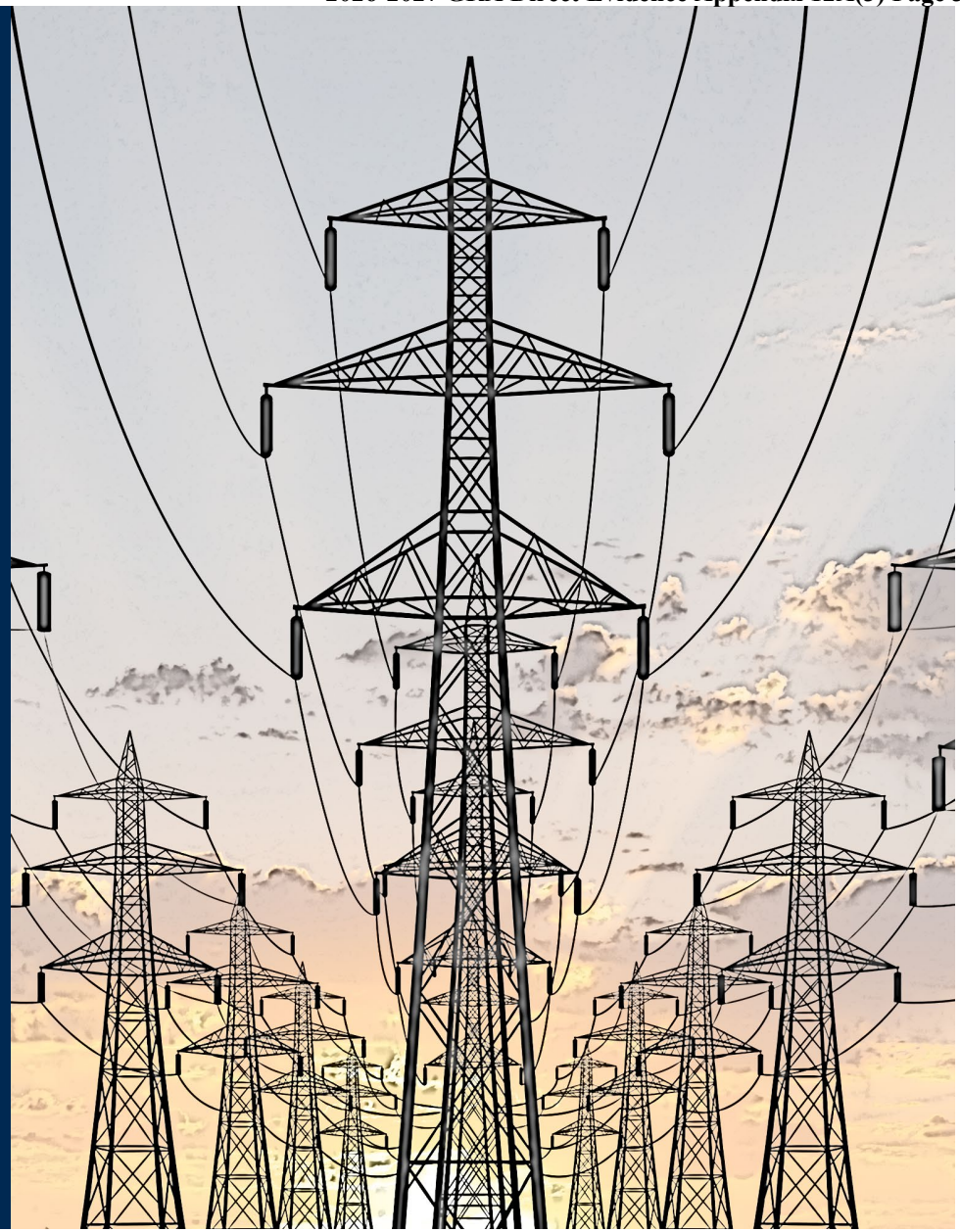
To quantify each customer class's impact, losses are allocated based on network connectivity.

Class	% Secondary	% Primary	% Transmission
(1) Domestic	100%	0%	0%
(5) Small General	100%	0%	0%
(8) General	94%	6%	0%
(11) GENERAL LARGE	0%	100%	0%
(12) Small Industrial	96%	4%	0%
(13) Medium Industrial	60%	40%	0%
(14) Large Industrial	0%	43%	57%
(15) Municipal	0%	0%	100%
(17) UNMETERED	100%	0%	0%
(19) GEN.REPL./LOAD FOLL.	0%	0%	100%
(20) BUTU	0%	66%	34%
(21) REAL TIME PRICING	0%	0%	100%
(22) LRT	0%	0%	100%
(23) Shore Power	0%	100%	0%
(24) EBS/RTR	0%	0%	100%

All rights reserved. © BBA

Methodology

04



Methodology

- Energy Loss Allocation

Step 01 : Calibration of contributions

Based on customer type allocation on different segments, a general table was built to demonstrate the proportion of loss allocated for each customer type.

Class	Distribution	Transmission	Non Technical
(1) Domestic	56.44%	49.08%	54.06%
(5) Small General	3.83%	3.33%	3.66%
(8) General	24.03%	20.89%	23.01%
(11) GENERAL LARGE	3.88%	3.38%	3.72%
(12) Small Industrial	2.76%	2.40%	2.65%
(13) Medium Industrial	4.75%	4.13%	4.55%
(14) Large Industrial	3.25%	6.57%	7.23%
(15) Municipal	0.00%	0.40%	0.00%
(17) UNMETERED	0.84%	0.73%	0.80%
(19) GEN.REPL./LOAD FOLL.	0.00%	0.14%	0.00%
(20) BUTU	0.21%	0.28%	0.31%
(21) REAL TIME PRICING	0.00%	0.12%	0.00%
(22) LRT	0.00%	7.63%	0.00%
(23) Shore Power	0.01%	0.01%	0.01%
(24) EBS/RTR	0.00%	0.90%	0.00%
Total	100%	100%	100%

*By evaluating **annual energy** (GWh) and **annual energy losses** (GWh) on each network segments, and evaluating **energy sold by each customer type**, we can compute loss allocation per customer types*

All rights reserved. © BBA

Methodology

Energy Loss Allocation

Step 02 : Calculation of loss allocation factors

- Losses are calculated for each customer class across all network segments using a defined formula.

  Segment Losses = Customer Class Contribution % x Total Annual Energy Losses for the segment

- The total energy loss for each class is obtained by summing losses across all segments

Total Energy Losses = ∑ Segment Losses

	(1) kWH SALES	(2) ANNUAL ENERGY PER CUSTOMER (GWh)	(3) LOSS ALLOCATION FACTOR (%)	(4) TRANSMISSION ENERGY LOSS (GWh)	(5) TRANSMISSION ENERGY LOSS (%)	(6) DISTRIBUTION ENERGY LOSS (GWh)	(7) DISTRIBUTION ENERGY LOSS (%)	(8) SECONDARY ENERGY LOSS (GWh)	(9) SECONDARY ENERGY LOSS (%)	(10) NON-TECHNICAL ENERGY LOSS (GWh)	(11) NON-TECHNICAL ENERGY LOSS (%)
(1) DOMESTIC	5,213,776,964	407.44	7.81%	126.88	2.43%	93.98	1.80%	109.36	2.10%	77.22	1.48%
(5) SMALL GENERAL	3,534,337,15	30.60	8.66%	8.60	2.43%	6.37	1.80%	10.40	2.94%	5.23	1.48%
(8) GENERAL	2,219,406,397	183.03	8.25%	54.01	2.43%	40.01	1.80%	56.14	2.53%	32.87	1.48%
(11) GENERAL LARGE	3,585,682,76	20.50	5.72%	8.73	2.43%	6.46	1.80%	0.00	0.00%	5.31	1.48%
(12) SMALL INDUSTRIAL	2,551,418,08	19.92	7.81%	6.21	2.43%	4.60	1.80%	5.33	2.09%	3.78	1.48%
(13) MEDIUM INDUSTRIAL	4,385,846,16	30.76	7.01%	10.67	2.43%	7.91	1.80%	5.68	1.30%	6.50	1.48%
(14) LARGE INDUSTRIAL	6,976,028,51	32.72	4.69%	16.98	2.43%	5.41	0.78%	0.00	0.00%	10.33	1.48%
(15) MUNICIPAL	4,264,286,5	1.04	2.43%	1.04	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(17) UNMETERED	7,727,462,6	6.04	7.81%	1.88	2.43%	1.39	1.80%	1.62	2.10%	1.14	1.48%
(11) SUB-TOTAL	9,656,432,118	732	7.58%	235	2.43%	166	1.72%	189	1.95%	142	1.48%
(19) GEN.REPL./LOAD FOLL.	1,504,332,8	0.37	2.43%	0.37	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(20) BUTU	2,994,772,6	1.53	5.10%	0.73	2.43%	0.36	1.19%	0.00	0.00%	0.44	1.48%
(21) REAL TIME PRICING	1,312,202,8	0.32	2.43%	0.32	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(22) LRT	8,105,472,00	19.73	2.43%	19.73	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(23) Shore Power	1,300,000	0.07	5.72%	0.03	2.43%	0.02	1.80%	0.00	0.00%	0.02	1.48%
(24)EBS/RTR	9,565,797,2	2.33	2.43%	2.33	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(16) TOTAL	10,622,050,373	756	7.12%	258	2.43%	167	1.57%	189	1.77%	143	1.34%

All rights reserved. © BBA

Methodology

Demand Line Loss

Demand line loss

Demand losses were calculated for each customer class across all network segments using the following formula :

Segment Demand loss = Class contribution to coincident demand x Segment demand loss %

- Secondary demand losses were derived from typical configuration models
- Distribution demand losses were computed using a peak load model in CYME and allocated based on marginal demand losses by class
- Transmission demand losses were obtained from PSS/E 8760 load flows and applied as a common % across all classes. Sensitivity analysis on marginal losses produced inconsistent results for smaller rate classes

All rights reserved. © BBA

Methodology

Demand Line Loss

Demand line loss

The total demand loss for each class was determined by summing the demand losses across all segments

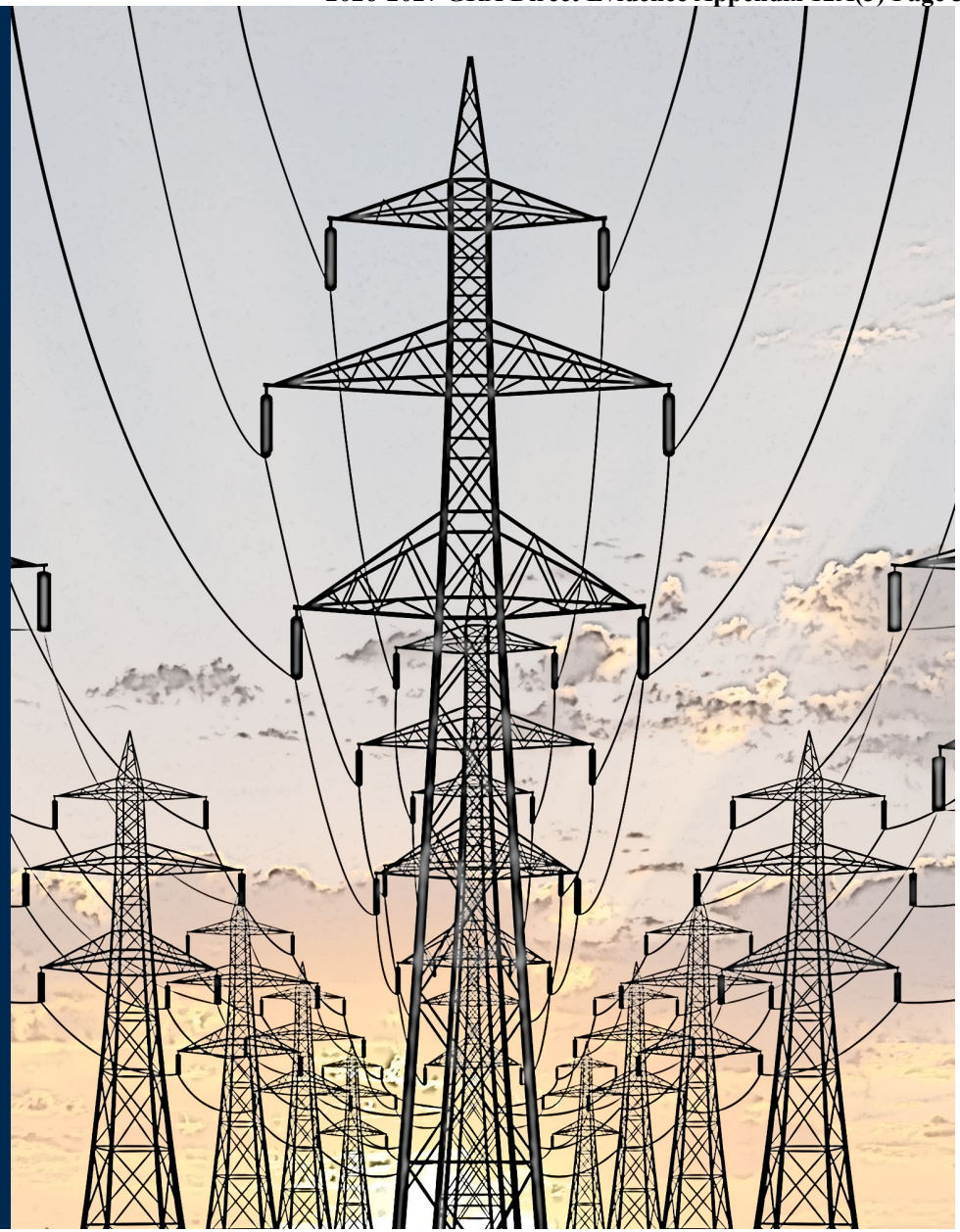
Total demand losses = ∑ Segment Demand Losses

Class	MWh Sales	Non-Coincident Demand	Coincident Demand	Demand Loss (kW)	Demand Loss %	Trans Demand Loss (kW)	Dist Demand Loss (kW)	Sec Demand Loss (kW)	Non-Tech Demand (kW)
Residential	5,213,776,964	1,315,928	1,315,928	186,891	14.2%	40,942	47,023	44,264	54,662
Small General	353,433,715	105,810	68,512	8,000	11.7%	2,132	1,840	2,061	1,967
General	2,219,406,397	471,903	389,273	40,891	10.5%	12,111	7,779	10,611	10,389
General Large	358,568,276	51,020	44,117	2,702	6.1%	1,373	5,42	0	0,788
Small Industrial	255,141,808	41,797	36,368	5,048	13.9%	1,131	1,333	1,068	1,515
Medium Industrial	438,584,616	68,212	56,500	6,015	10.6%	1,758	1,361	0,986	1,910
Large Industrial	697,602,851	98,358	77,775	3,699	4.8%	2,420	0,521	0	0,758
Municipal	42,642,865	8,780	8,780	2,73	3.1%	0,273	0	0	0
Unmetered	77,274,626	10,903	10,903	1,548	14.2%	0,339	0,390	0,367	0,453
Sub Total	9,656,432,118	2,172,712	2,008,156	255,067	12.7%	62,479	60,789	59,358	72,442
Gen Repl	15,043,328	7,659	0,067	3	4.7%	2	1	0	0
BUTU	29,947,726	33,583	32,224	2,814	8.7%	1,003	0,738	0	1,074
RTP	13,122,028	0	0	0	0.0%	0	0	0	0
LRT	810,547,200	185,000	65,000	2,022	3.1%	2,022	0	0	0
Shore Power	1,300,000	21,000	0	0	0.0%	0	0	0	0
EBS/RTR	95,657,972	52,627	49,894	1,552	3.1%	1,552	0	0	0
Total	10,622,050,373	2,472,581	2,155,341	261,459	12.1%	67,058	61,528	59,358	73,515

All rights reserved. © BBA

Results

05



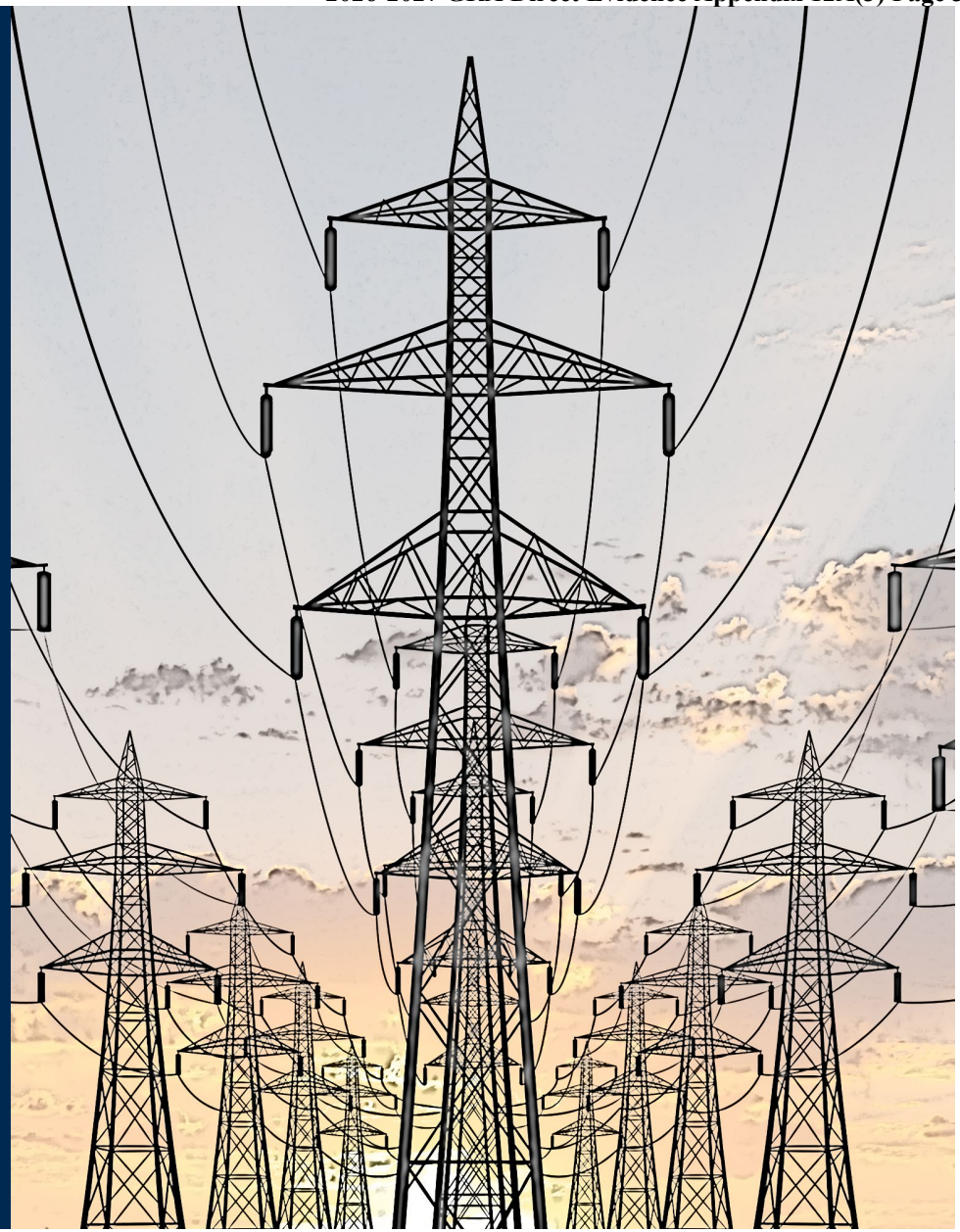
Results

Class	(1) ENERGY LINE LOSS (2023) %	(2) DEMAND LINE LOSS %	(3) ENERGY LINE LOSS (2026) %	(2) DEMAND LINE LOSS %
(1) RESIDENTIAL	9.1%	15.9%	7.8%	14.0%
(5) SMALL GENERAL	8.4%	12.7%	8.7%	11.9%
(8) GENERAL	5.7%	8.3%	8.2%	10.8%
(11) GENERAL LARGE	5.9%	5.9%	5.7%	6.7%
(12) SMALL INDUSTRIAL	5.8%	6.8%	7.8%	13.7%
(13) MEDIUM INDUSTRIAL	5.5%	6.6%	7.0%	10.7%
(14) LARGE INDUSTRIAL	4.6%	4.0%	4.7%	5.6%
(16) MUNICIPAL	4.0%	4.0%	2.4%	4.2%
(17) UNMETERED	8.2%	15.9%	7.8%	14.0%
(11) SUB-TOTAL	7.6%	13.2%	7.6%	12.7%
(19) GEN.REPL./LOAD FOLL.	4.0%	4.0%	2.4%	5.8%
(20)BUTU	5.4%	5.4%	5.1%	8.8%
(21) REAL TIME PRICING	4.0%	0.0%	2.4%	0.0%
(22) LRT	2.0%	2.0%	2.4%	4.2%
(23) Shore Power	4.0%	0.0%	5.7%	0.0%
(24) EBS/RTR	4.0%	4.0%	2.4%	4.2%
(16) TOTAL	7.1%	12.5%	7.1%	12.2%

All rights reserved. © BBA

Questions ?

06



Memorandum

To: NS Power
From: Andrew Blair & John Todd
Date: May 9, 2024
Re: Bundled/Unbundled Jurisdiction Review

1 INTRODUCTION

Elenchus reviewed the presence and form of unbundled rates offered in each provincial jurisdiction in Canada to provide context for NS Power and stakeholders in the COSS methodology review. Unbundled rates are uncommon in Canada as most jurisdictions do not allow customers to be supplied by entities other than the principle vertically integrated electricity utility.

Unbundled rates are necessary when customers have retail access to have electricity supplied by an entity other than their utility that is delivered through the utility's distribution system. A similar concept to retail access is wholesale access, which allows wholesale customers to be supplied electricity from a third-party through a utility's transmission system. All jurisdictions with an Open Access Transmission Tariff (OATT) are required to provide wholesale access to transmission service but this requirement does not extend to retail access.[1]

Alberta and Ontario have deregulated electricity structures in which rates are unbundled by default. British Columbia, Quebec, and Newfoundland and Labrador expressly permit utilities to propose unbundled rates but none of these provinces currently have unbundled rates. Unbundled rates existed in British Columbia from 2006 to 2012, where unbundled non-energy charges were equal to bundled non-energy charges, however no customers took service under these rates. Saskatchewan has rates that can be considered unbundled for large self-generating customers and is in the process of developing

[1] OATTs include "retail customers pursuant to retail access programs" or similar language in its definition of eligible customers, but in practice those programs do not exist in most provinces.

52 Church Street, Suite 222 Toronto, Ontario, M5C 3C8
Email: ablair@elenchus.ca; direct line: 416-823-5443

unbundled rates for large customers procuring renewable energy. Manitoba, New Brunswick, and Prince Edward Island do not offer unbundled rates.

2 JURISDICTION REVIEW

2.1 ONTARIO AND ALBERTA

Ontario and Alberta have deregulated electricity structures with separate generation, transmission, and distribution utilities so their rates are unbundled. Transmission and distribution rates are set separately based on cost-of-service studies for each utility. Generation rates are based on hourly market prices in each province. Customers in these provinces may procure electricity from retailers and this does not impact the charges they pay for transmission and distribution.

2.2 BRITISH COLUMBIA

BC Hydro does not have unbundled rates. BC Hydro had a Retail Access Program beginning in 2006 but it was suspended in 2012 and canceled in 2014. The Retail Access Program, operating as Tariff Supplement No. 71, was created in response to BC Hydro's 2002 Energy Plan as Policy Action #14: "Under new rate structures, large electricity consumers will be able to choose a supplier other than the local distributor."[2]

BC Hydro submitted an application to suspend the program for two years beginning in 2012, which was approved following support from the Minister of Energy and Mines.[3] The program as cancelled in 2014 by government Direction 7, section 14:[4]

---

[2] BC Hydro 2007 Rate Design Application Phase-1 Decision, October 26, 2007
https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/regulatory-planning-documents/regulatory-matters/bcuc-order-g-130-07-and-reasons-for-decision.pdf

[3] BC Hydro Application to Suspend Retail Access Program, December 23, 2011
https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/regulatory-planning-documents/regulatory-matters/2011_12_23_ltr_bcuc_ras_appl.pdf

[4] Direction No. 7 to the British Columbia Utilities Commission
https://www.bclaws.gov.bc.ca/civix/document/id/loo102/loo102/28_2014

14 (1) By March 23, 2014, the commission must issue orders as follows:

(a) the commission must accept a withdrawal by the authority of any obligation to offer unbundled transmission services under the authority's open access transmission tariff to retail customers in British Columbia, and a withdrawal of any obligation to offer such services to those who supply such customers;

(b) the commission must order the cancellation of the retail access program.

(2) Except on application by the authority, the commission must not set rates for the authority that would result in the direct or indirect provision of unbundled transmission services to retail customers in British Columbia, or to those who supply such customers.

For clarity, "the authority" referred to in the direction is BC Hydro. Section 14(2) of Direction 7 was repeated verbatim as section 7 of the 2019 Direction 8.[5] BC Hydro has not submitted an application to reintroduce unbundled service. BC Hydro indicated that no customers used the Retail Access Program while it was in effect[6] and the price of BC Hydro-supplied electricity remained lower than available market prices.[7]

When the program was still in effect, potential customers would continue to pay the same demand charges for unbundled service that were charged under the applicable unbundled rate schedule.[8]

---

[5] Direction No. 8 to the British Columbia Utilities Commission
https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/24_2019

[6] BC Hydro Transmission Service Customers Engagement Summary Report
https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/regulatory-planning-documents/regulatory-matters/bch-engagementsummary-report.pdf

[7] BC Hydro Application to Suspend Retail Access Program, December 23, 2011
https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/regulatory-planning-documents/regulatory-matters/2011_12_23_ltr_bcuc_ras_appl.pdf

[8] ibid, page 5

2.3 SASKATCHEWAN

SaskPower's rates are generally bundled, but there are exceptions for large industrial customers in certain circumstances. SaskPower's Capacity Reservation Service charges can be considered unbundled rates and it is in the process of developing unbundled rates for large customers procuring renewable energy.

Saskatchewan's Power Corporation Act gives SaskPower the exclusive right to supply, transmit, distribute and sell power.[9] SaskPower has wholesale rates ("reseller rates") that are based on a cost-of-service study. The rates are determined separately for the customers in the class, which currently includes only the cities of Swift Current and Saskatoon.

SaskPower is introducing an Intra-Provincial Transmission Tariff (IPTT) along with its Renewable Access Service to allow large industrial customers to procure renewable energy from independent power producers.[10] The Renewable Access Service program is in a pilot stage and SaskPower intends to open the program to all large customers in 2024. A new Renewable Access Service Rate will apply to customers taking this service, but SaskPower has not yet publicly released the details of this rate.

SaskPower's current rates are designed to recover a portion of demand-related costs through energy charges. This adjustment, known as the Bary Correction, is made to recover more revenue from customers with high load factors as these customers are presumed to contribute more to coincident peak demand-related costs. SaskPower introduced Capacity Reservation Service rates for customers that self-generate.[11] Demand and energy charges were set to be more closely aligned with demand and

[9] The Power Corporation Act, section 38 https://www.canlii.org/en/sk/laws/stat/rss-1978-c-p-19/latest/rss-1978-c-p-19.html

[10] SaskPower Intra-Provincial Transmission Tariff https://www.saskpower.com/Our-Power-Future/Our-Electricity/Connecting-to-the-Power-Grid/Using-SaskPower-Transmission-Lines/Intra-Provincial-Transmission-Tariff

[11] SaskPower Capacity Reservation Service Rate Review https://www.saskpower.com/Accounts/Power-Rates/2019-20-Capacity-Reservation-Service-Rate-Review

energy-classified costs, but fixed monthly customer charges were maintained at the same charge applicable to standard service customers. Demand charges under this rate are higher, with corresponding lower energy charges, so customers can't avoid paying for demand-related costs by reducing energy consumption. Capacity Reservation Service rates could be considered a form of unbundled rates. Elenchus anticipates that SaskPower's Renewable Access Service Rate will be more aligned with its Capacity Reservation Service rates than its standard large commercial and industrial rates.

2.4 MANITOBA

Manitoba Hydro does not offer unbundled rates. The Manitoba Hydro Act states that "Subject to the regulations, no person other than the corporation shall engage in the retail supply of power in Manitoba".[12] Manitoba Hydro noted in its rate design evidence for its 2023/24 & 2024/25 General Rate Application that it is considering unbundled rates in the future.[13]

2.5 QUEBEC

Hydro Quebec does not offer unbundled rates. The Act Respecting the Régie de l'énergie explicitly gives the Régie authority to approve a pilot that would allow customers to access retail markets:[14]

> 167. At the request of the Government and according to the parameters it determines, the Régie shall, on the proposal of the electric power distributor, fix the conditions of a pilot project to enable consumers or a class of consumers the Régie designates in accordance with the rules of the project to be supplied electric power by a supplier of their choice. The

[12] The Manitoba Hydro Act, Section 15.2(1)
https://web2.gov.mb.ca/laws/statutes/ccsm/_pdf.php?cap=h190

[13] Manitoba Hydro 2023/24 & 2024/25 GRA, Tab 8, page 18
https://www.hydro.mb.ca/docs/regulatory_affairs/pdf/electric/gra_2023_2025/08-0_tab_8_cost_of_service.pdf

[14] Act Respecting the Régie de l'énergie, section 167
https://www.legisquebec.gouv.qc.ca/en/document/cs/r-6.01

> Régie shall then adjust the rate of the electric power distributor in accordance with the conditions of the pilot project.

Elenchus could not find evidence that Hydro Quebec has ever proposed such a pilot program. Notably, Hydro Quebec indicates in its annual Comparison of Electricity Prices in Major North American Cities that Hydro Quebec serves a wholesale market but not a retail market.[15]

2.6 NEW BRUNSWICK

NB Power does not offer unbundled rates. New Brunswick's Electricity Act gives NB Power the exclusive right to sell and supply electricity to customers or municipal distribution utilities.[16] Municipal distribution utilities can procure electricity from suppliers other than NB Power only from legacy contracts existing prior to April 2013 (when NB Power was amalgamated) or from producers within the municipal franchise area. There is an exception that "clean source" electricity generated by a non-NB Power supplied can be sold to customers if they are connected to NB Power's transmission system and the electricity is used to produce ammonia, hydrogen, or another purpose if prescribed by legislation.[17] NB Power does not have separate unbundled rates to apply in this scenario.

2.7 NEWFOUNDLAND AND LABRADOR

Newfoundland and Labrador Hydro (NLH) does not offer unbundled rates. The Electrical Power Control Act gives NLH the exclusive right to supply, distribute, and sell power.[18] The act includes provisions for retailers, however, retailers are not permitted to procure electricity from any entity other than NLH.

> (a) Newfoundland and Labrador Hydro shall have the exclusive right to supply, distribute and sell electrical power or energy to a retailer or an industrial customer in respect of the

---

[15] Comparison of Electricity Prices in Major North American Cities, 2023 https://www.hydroquebec.com/data/documents-donnees/pdf/comparison-electricity-prices.pdf

[16] Electricity Act, section 72 https://www.canlii.org/en/nb/laws/stat/snb-2013-c-7/latest/snb-2013-c-7.html

[17] Ibid, section 72.1

[18] Electrical Power Control Act, section 14.1 https://www.canlii.org/en/nb/laws/stat/snb-2013-c-7/latest/snb-2013-c-7.html

business or operations of that retailer or industrial customer on the island portion of the province; and

(b) a retailer or an industrial customer shall purchase electrical power or energy exclusively from Newfoundland and Labrador Hydro in respect of the business or operations of that retailer or industrial customer on the island portion of the province.

NLH does have an OATT and does not offer wholesale access service.

2.8 PRINCE EDWARD ISLAND

Maritime Electric does not offer unbundled rates. The Electric Power Act gives Maritime Electric exclusive right to the production, transmission, distribution or furnishing of electric energy in the province, except in the City of Summerside.[19] Maritime Electric notes in its OATT application that it does not provide retail access because it is not a requirement to do so under the FERC Pro Forma Tariff and that its customers have not expressed interest in being able to purchased electricity from other suppliers.[20]

3 SUMMARY

Unbundled rates are not common in Canada. Retail access that is required for unbundled rates to be applicable is only present in Alberta, Ontario, and Nova Scotia. In each of the provinces with unbundled rates, plus British Columbia before the retail access program was canceled, the rates were created in response to government legislation permitting retail access.

BC Hydro and SaskPower are the only examples, outside of NS Power, of vertically integrated utilities with unbundled rates. In the case of BC Hydro, bundled non-energy charges were set equal to bundled non-energy charges. No customers took service with unbundled rates so there were no impacts to BC Hydro's revenue recovery or to the rates

[19] Electric Power Act, section 2.1 https://www.princeedwardisland.ca/sites/default/files/legislation/e-04-electric_power_act.pdf

[20] 2021 OATT Schedule Update, page 13 https://www.maritimeelectric.com/Media/1826/2021-oatt-schedule-update-filed-july-30-2021.pdf

paid by other customers. Capacity Reservation Service rates in SaskPower were created to maintain recovery of demand-related costs from self-generating customers.

In Elenchus' experience, utilities typically apply each class's rate increase uniformly to each component of customer bills. Rates are generally not rebalanced to provide "ideal rates" such that fixed or minimum monthly charges are aligned with customer-related costs, demand charges are aligned with demand-related costs, and energy charges are aligned with energy-related costs. This is done to provide historic continuity and maintain stability over time in total bills. Absent rate component rebalancing bundled rates deviate from causal costs and diverge from appropriate unbundled rates.

4 APPENDIX: HYDRO QUEBEC RATE COMPARISON

Hydro Quebec publishes annual electricity rate comparisons[21] that include profiles of each utility that list retail and wholesale access. The table below provides a summary of those profiles.

Province	Retail Access	Wholesale Access
British Columbia	No	Open
Alberta	Open	Open
Saskatchewan	Partially Open	Partially Open
Manitoba	No	No
Ontario	Open	Open (supply rate regulated by OEB)
Quebec	No	Open
New Brunswick	No	No
Newfoundland and Labrador	No	No
Prince Edward Island	No	No
Nova Scotia	No	No

[21] Comparison of Electricity Prices in Major North American Cities, 2023
https://www.hydroquebec.com/data/documents-donnees/pdf/comparison-electricity-prices.pdf

Memorandum

elenchus

To: NS Power
From: Andrew Blair & John Todd
Date: December 18, 2024
Re: Transmission Classification Jurisdiction Review

1 SUMMARY

Transmission costs, excluding from generation radial and interconnections, are classified 100% as demand in all jurisdictions except Alberta.

Province	Utility	Transmission Classification (excluding generation radial and interconnections)
British Columbia	BC Hydro	100% Demand
Alberta*	ENMAX	~80% Demand (certain charges are billed on energy)
Saskatchewan	SaskPower	100% Demand
Manitoba	Manitoba Hydro	100% Demand
Ontario*	Hydro One	100% Demand
Quebec*	Hydro Quebec	100% Demand
New Brunswick	NB Power	100% Demand
Newfoundland and Labrador	NL Hydro	100% Demand
Prince Edward Island	Maritime Electric	100% Demand

**Additional comments on classification are provided below*

Generation radial and interconnections are either not identified in cost allocation studies within the transmission function or are responsible for only a small portion of overall transmission costs, except in Quebec as noted below. Alberta and Ontario are deregulated so transmission costs pass-throughs that are allocated by the distributor.

52 Church Street, Suite 222 Toronto, Ontario, M5C 3C8
Email: ablair@elenchus.ca; direct line: 416-823-5443

2 ADDITIONAL DETAILS ON CERTAIN JURISDICTIONS

2.1 ALBERTA

Alberta is deregulated so the transmission charges applicable to rate classes are in the form of pass-through charges allocated by distributors.

The AESO's Demand Transmission Service tariff bills customers, including distributors, various charges including bulk system charge, regional system charge, point of delivery charge, operating reserve charge, voltage reserve charge, and other system support charges. Most the total bill is demand-based charges, but there are customer and energy charges as well.

Distributors allocate these transmission costs (or "system access" costs) to their rate classes based on the same billing determinants they are charged by the AESO. For example, bulk system charges applied by the AESO on monthly demands are allocated to the distributor's rate classes using the 12CP. In some cases a "billing capacity" is used instead of 12CP. Customer charges are allocated based on demand. Using ENMAX as an example, 80.5% of transmission costs are allocated based on demand and 19.5% is allocated based on energy.

2.2 ONTARIO

Ontario is deregulated so the transmission charges applicable to rate classes are in the form of pass-through charges allocated by distributors. All transmission charges billed to distributors are demand-based charges. The transmission charges incurred by distributors are allocated to rate classes based on 12CP.

2.3 QUEBEC

Network ("Réseau") costs are classified 100% demand. Transmission related to generation and interconnections are classified by the system load factor (42.4% demand). Transmission related to generation is a significant share of transmission costs in Quebec. Overall, approximately 75% of transmission costs are classified as demand.

3 SOURCES

Province	Source
British Columbia	https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/regulatory-planning-documents/regulatory-matters/2023-05-29-bch-facos-f2023.pdf page 12
Alberta	https://www.aeso.ca/assets/documents/ISO-Tariff-Current-Combined-2024-01-01.pdf https://www2.auc.ab.ca/Proceeding24820/ProceedingDocuments/24820_X0003_2019-08-19-EPC-2019DistributionTariffPha_0022.pdf
Saskatchewan	https://www.saskpower.com/-/media/saskpower/accounts-and-services/rates/cost-of-service-2023/report-draft-rates-elenchus-rate-design-2023.pdf
Manitoba	https://www.hydro.mb.ca/docs/regulatory_affairs/pdf/electric/gra_2023_2025/08-1_pcoss.pdf
Ontario	https://www.rds.oeb.ca/CMWebDrawer/Record/721565/File/document
Quebec	https://www.regie-energie.qc.ca/fr/participants/dossiers/R-4057-2018/doc/R-4057-2018-B-0183-Demande-Piece-2019_03_12.pdf
New Brunswick	https://filemaker.nbeub.ca/fmi/webd/NBEUB%20ToolKit13, Matter 552, NBP2.49
Newfoundland and Labrador	http://www.pub.nl.ca/applications/NP2025GRA/app/From%20NP%20-%202025-2026%20General%20Rate%20Application%20-%20Volume%202%20-%202023-12-12.PDF
Prince Edward Island	https://irac.pe.ca/wp-content/uploads/Exhibit-M-1b-MECL-2020-Cost-Allocation-Study-July-22-2021.pdf

Memorandum

elenchus

To: NS Power
From: Andrew Blair & John Todd
Date: January 21, 2025
Re: Generation Classification & Overall Classification Jurisdiction Review

This memo provides details of the generation classification methodologies used by Canadian vertically integrated utilities to classify generation assets and expenses and energy purchases. A summary of the overall classifications to demand, energy, and customer-related is also provided.

Utilities in Canada either use some form of the system load factor approach to classify generation assets and generation OM&A or the classification factors are directed by the regulator. The system load factor is used by SaskPower, Manitoba Hydro, Hydro Quebec, NB power, NS Power, and Newfoundland Power. BC Hydro's classification is based on a 2007 BCUC order which set demand at the share of costs deemed to develop water pressure. Maritime Electric's classification is based on judgement for three sources of energy: imports from NB Power, combustion generation, and wind. Generation costs in Alberta and Ontario are based on a market so no classification methodology is applied.

System load factor approaches consider the relationship between demands in system coincident peak hours and average annual demands. The portion classified as energy is calculated as average demand divided by demand in peak hours. Each utility uses average annual demand in each hour of the year as average demand and generally a single coincident peak hour is used, but there are exceptions. Hydro Quebec uses an average of 300 peak hours. NB Power has used a 3CP but were recently directed to use a 1CP, though no cost of service study has been filed using the 1CP.

Fuel and purchases are generally considered energy-related but some utilities classify portions of fuel and purchases as demand. Classifying fuel and purchases as demand-related applies a degree of seasonality to these costs that are typically considered energy-related. Four utilities, Hydro Quebec, Newfoundland Power, Manitoba Hydro, and

52 Church Street, Suite 222 Toronto, Ontario, M5C 3C8
Email: ablair@elenchus.ca; direct line: 416-823-5443

NS Power classify most fuel and purchases by the same system load factor approach used to classify assets and OM&A.

Table 1 – Assets & Depreciation and OM&A Classification

Utility	System Load Factor Basis	Assets and Depreciation	OM&A
BC Hydro	N/A	55% demand / 45% energy	
SaskPower	1CP	System load factor 25% demand / 75% energy	
Manitoba Hydro	1CP	Eight-year average system load factor 39.3% demand / 60.7% energy - Except wind 100% energy	Eight-year average system load factor 39.3% demand / 60.7% energy - Except variable hydraulic O&M 100% energy
Hydro Quebec	1CP	35.0% demand / 65% energy	
NB Power	1CP*	Peak and average methodology 50.4% energy / 49.6% demand	
Nova Scotia Power	1CP	Hydro and Steam is based on system load factor - overall 46.3% demand / 53.7% energy. Other generation is 100% demand. Environmental & fuel conversion costs classified 100% energy.	
Maritime Electric	N/A	Point Lepreau - judgement based on analysis of various classification methodologies (25% demand/75% energy). On island generation is 100% demand. Wind is 23% demand based on capacity used for planning purposes.	Blended allocator based on classifications of assets. Weighted average is 72% demand / 28% energy.
Newfoundland Power	1CP	System load factor (45.7% demand / 54.3% energy) for hydro assets. Other generation is 100% demand.	System load factor 45.7% demand / 54.3% energy for hydro assets. Other generation is 100% demand.

* NB Power currently uses a 3CP but was ordered to replace the 3CP with a 1CP. NB Power has not yet filed an updated study with this method.

Table 2 – Fuel and Purchases Classification

Utility	Fuel	Purchases
BC Hydro	Either 100% energy or the Value of Capacity (88.6% energy). Varies by type of generation	Value of Capacity (92% energy)
SaskPower	100% Energy	Contracted capacity and energy payments
Manitoba Hydro	Eight-year average system load factor 39.3% demand / 60.7% energy - Except water rentals 100% energy	Eight-year average system load factor 39.3% demand / 60.7% energy
Hydro Quebec	System load factor – 35% demand	System load factor– 35% demand
NB Power	100% Energy	Capacity contracts 100% demand. Other purchases 100% energy.
Nova Scotia Power	100% Energy	Non-firm purchases are 100% energy. Other purchases are classified by same classification as like NSP generation.
Maritime Electric	Charlottetown Thermal Generating Station fuel is 100% demand. Combustion turbine fuel is 100% Energy.	Wind purchases based on nameplate capacity (23% demand / 77% energy). Other purchases are assigned either 100% demand or 100% energy. Weighted average is 17% demand / 83% energy)
Newfoundland Power	System load factor 45.7% demand / 54.3% energy for hydro assets. Other generation is 100% demand.	Purchases from NLH are classified based on NLH's classification from its COS (34.2% demand / 65.8% energy). A portion of purchases are re-functionalized as transmission (100% demand).

Table 3 – Fuel and Purchases Classification

Utility	Classification of a portion of Fuel as Demand	Classification of Purchases as Demand
BC Hydro	Yes (11.4%)	Yes (8%)
SaskPower	No	Yes (contracted demand only)
Manitoba Hydro	No – wind Yes – other (39.3%)	Yes (39.3%)
Hydro Quebec	Yes (35.0%)	Yes (35.0%)
NB Power	No	Yes (contracted demand only)
Nova Scotia Power	No	No – out of province Yes – in province (same as like NSP generation)
Maritime Electric	No – Combustion (100%) Yes – Charlottetown Thermal	Yes (17%)
Newfoundland Power	Yes (45.7%)	Yes (34.2%)

Table 4 – Overall Classifications

The following table summarises the share of each utility's total costs classified by each demand, energy, and customer. The shares excluding energy are also provided. In addition to classification methodologies, classification shares may differ based on the type of generation,

	Classified Cost Shares			Excluding Customer	
Utility	**Demand**	**Energy**	**Customer**	**Demand**	**Energy**
BC Hydro	51.9%	41.2%	6.9%	55.8%	44.2%
SaskPower	41.2%	46.9%	11.9%	46.7%	53.3%
Manitoba Hydro	40.9%	54.6%	4.5%	42.8%	57.2%
Hydro Quebec	47.6%	43.4%	8.9%	52.3%	47.7%
NB Power	35.8%	58.9%	5.3%	37.8%	62.2%
NS Power	29.3%	60.7%	10.0%	32.5%	67.5%
Maritime Electric	34.7%	51.5%	13.9%	40.2%	59.8%
Newfoundland Power	48.3%	38.4%	13.3%	55.7%	44.3%

Table 5 – Sources for Tables 1-4

Utility	Sources
BC Hydro	F2023 FACOS Study 2015 Rate Design Application (proceeding 3698781), Chapter 3, page 2-22
SaskPower	2023 Cost of Service Methodology Review 2022 & 2023 Cost of Service Minimum Filing Requirements
Manitoba Hydro	2023/24 & 2024/25 GRA - Prospective Cost of Service Study MH Consumers Coalition IRs
Hydro Quebec	D-2006-34 R-4057-2018, B-0183, Répartition Du Coût De Service 2019 https://www.legisquebec.gouv.qc.ca/en/document/cs/R-6.01
NB Power	Matter No. 552, FY25/26 CCAS Scenarios EUB Decision (Nov 15, 2024) Matter No. 554, Oral Decision (Dec. 19, 2024)
Nova Scotia Power	NSP 2023-24 GRA (M10431), Attachment SR-01
Maritime Electric	MECL 2023 GRA, Exhibit M-1(d) Revised 2020 Cost Allocation Study
Newfoundland Power	NP 2025-2026 GRA Volume 2, Section 4 Cost of Service Study

Nova Scotia POWER An Emera Company

PO Box 910 ● Halifax, Nova Scotia ● Canada ● B3J 2W5

Memorandum

To: Participants in NS Power COSS Stakeholder Process

From: NS Power

Date: April 12, 2024

Re: Process for Remaining COSS Sessions

The following details the process discussed at the stakeholder meeting on April 10, 2024:

- NS Power will provide its initial position, with supporting rationale, on issues on the consolidated issues list to stakeholders by **EOD April 18**. This will provide stakeholders with time to review NS Power's position prior to upcoming sessions and allow them to develop their own proposals accordingly.
- All data request (DRs) should be submitted to NS Power by **EOD May 2, 2024.**
- Moving forward sessions will be focused on specific issues and discussion of proposed changes (or the rationale for maintaining status quo).
- **At least 7 business days** prior to each session, NS Power will ask stakeholders to provide proposals for changes associated with the issues scheduled for that session. These proposals should be specific and include the stakeholder's rationale for the change being proposed. This will allow NS Power/Elenchus to model the proposed change so that the stakeholder's proposal can be discussed and presented at the relevant session.
- If follow-up is required, NS Power will either set aside time at the start of the next session for follow up, or schedule a mini-session as necessary (mini-sessions may be scheduled when the follow up is expected to be more extensive and are intended to be approximately one hour sessions).
- A document will be developed to track the positions of the parties and will be updated and circulated following each session:
    - If no specific changes are requested or brought forward in relation to an issue at a session, then that issue will be documented as 'no alternatives proposed' following that session.
    - If all stakeholders expressly reach consensus, then that issue will be documented as agreed upon.
    - If multiple different proposals are made or a stakeholder expressly disagrees with NS Power's position, and consensus is not reached, then that issue will be marked as contentious.
- A final, full day (or potentially two day) resolution session will be scheduled at the end of June to allow stakeholders and NS Power to try to reach consensus on any issues that remain contested.

Nova Scotia POWER An Emera Company

PO Box 910 ● Halifax, Nova Scotia ● Canada ● B3J 2W5

Memorandum
To: Participants in NS Power COSS Stakeholder Process
From: NS Power
Date: October 11, 2024
Re: Written Response regarding Decarbonization Deferral Account (DDA)

The COSS work plan outlines the following item for NS Power to provide a written response:

4. Treatment of DDA (subject to ongoing proceeding)

During discussion in the COSS Stakeholder Engagement Session 2, held on February 22, 2024, intervenors discussed NS Power's Decarbonization Deferral Account (DDA), and were interested in the COS impact if the scope of the DDA were to broaden in the future.

As a result of federal and provincial legislation regarding decarbonization, NS Power is required to retire coal-fired assets and associated marine unloading and fuel delivery facilities by 2030. NS Power has not fully recovered its investment in the assets it expects to retire or the costs it will incur to decommission these facilities. In order to recover these energy transition costs in a more affordable manner, NS Power applied to the Board to transfer these costs to the DDA. The Board issued its Order approving the DDA on May 21, 2024.

The current NSUARB-approved DDA COS treatment is the appropriate scenario to consider as part of this COSS proceeding, and it would be premature to speculate on how the DDA scope could change in the future. Any changes to the scope of the DDA would require regulatory approval and the resulting COS implications would be best addressed in that proceeding, or subsequently.

In respect to proposed treatment of current DDA, the underlying assets will be included in the DDA once they have been retired and therefore will be considered not used and not useful. As such, NS Power proposes that the DDA be treated as a regulatory asset and treated in the same way as other regulatory assets for COS purposes. Historically for regulatory assets, NS Power has apportioned to rate classes reflecting their responsibilities for total rate base as reflected in Exh 3 of COSS.[1] Accordingly regulatory amortization costs

[1] For example, for the 2023 COSS purposes, filed in the 2023-2024 GRA, the DDA cost of $1.1 million was included in the total regulatory amortization of $12.1 million, net of the FAM amount of $52.5 million, which in turn was combined with the Corporate Tax amount of $14.4 million totaling $26.6 million. Also, costs associated with section 21 were also treated in the same manner in past GRA proceedings.

are treated as follows:

- Functionalized among the four service areas of generation, transmission, distribution (according to the portion of total rate base each function represents), and retail,
- Classified to all services of energy, demand and customer within each service area as applicable in accordance with other functionalized amounts, and
- Apportioned to rate classes consistent with their shared responsibility for investment in the above categories.

Nova Scotia POWER An Emera Company

PO Box 910 • Halifax, Nova Scotia • Canada • B3J 2W5

Memorandum
To: Participants in NS Power COSS Stakeholder Process
From: NS Power
Date: October 11, 2024
Re: Written Response regarding General Plant

The COSS work plan outlines the following item for NS Power to provide a written response:

3. Review of Treatment of General Plant

During discussion in the COSS Stakeholder Engagement Session 2, held on February 22, 2024, intervenors noted that when looking at the COSS, General Plant costs had grown significantly. Intervenors were interested in an analysis of the General Plant investment and its impacts on COSS.

The General Plant category primarily consists of NS Power's investment in facilities, which includes buildings structures and grounds, communication equipment, transportation equipment (such as the company's work vehicles), and the company's IT infrastructure.

The Net Book Value (NBV) of General Property is tracked by NS Power as a separate investment category and for COSS purposes requires functionalization. Currently, its rate base and depreciation expenses are apportioned among the three service areas of generation, transmission and distribution, on the basis of the relative NBV shares of these three service areas. Other general property related expenses, such as interest, taxes and return are also apportioned among the above service areas based on their relative investment shares.

The table below depicts the Company's net book value of the General Plant depreciation pools at December 31, 2011 and December 31, 2023.

	Net Book Value, at December 31, in millions.	
	2011 ($)	**2023 ($)**
Land Rights - General Plant	9.7	14.4
Structures and Improvements	101.5	112.7
Office Furniture and Equipment	2.6	3.3
Office Furniture and Equipment - Computer Hardware	14.8	18.6
Office Furniture and Equipment - Computer Software	17.6	182.7
Transportation equipment	32.6	43.2
Stores Equipment	0.1	-
Communication Equip	17.4	42.3

	Net Book Value, at December 31, in millions.	
	2011 ($)	2023 ($)
Communication Equip - SCADA	2.1	18.3
Remote Monitoring Equipment	0.7	1.3
Misc Equipment	15.3	23.5
Roads, Bridges and Trails	0.4	0.2
Mining equipment	1.0	0.3
Salvage	4.9	4.9

As shown in the table above, significant growth has occurred in the Company's IT infrastructure, primarily within the Computer Software depreciation pool, where there has been an increase in the net book value of $165 million from 2011 to 2023. The Company invested in significant IT infrastructure upgrades over the past 12 years; these include, but are not limited to, the following projects: ERP Upgrade, Work and Asset Management, Customer Energy Management, Data Center Disaster Recovery, and ADMS Upgrade.

In addition to the increase within the Computer Software depreciation pool, the Communication Equipment pools have experienced growth in investment between 2011 and 2023. This is primarily due to the investment required as part of the Advanced Meter Infrastructure project, resulting in approximately $12 million in additions to the Communication Equipment depreciation pool.

In light of the specific nature of the computer software and communication equipment asset groups, which show the most dynamic growth, and due to the nature of the specific projects that make up the assets in these classes, they can by more easily attributable to specific service areas. NS Power therefore proposes that investments in computer software and communication equipment be directly functionalized between generation, transmission, distribution, and retail where appropriate, and the remaining NBV be allocated using the current methodology as part of future COSS. Going forward, NS Power will continue to seek opportunities to directly functionalize other investment categories within General Plant and will identify the changes in the related filings.

Nova Scotia POWER An Emera Company

PO Box 910 • Halifax, Nova Scotia • Canada • B3J 2W5

Memorandum
To: Participants in NS Power COSS Stakeholder Process
From: NS Power
Date: November 1, 2024
Re: Written Response regarding Decarbonization Deferral Account (DDA) - Updated

---

The COSS work plan outlines the following item for NS Power to provide a written response:

4. Treatment of DDA (subject to ongoing proceeding)

During discussion in the COSS Stakeholder Engagement Session 2, held on February 22, 2024, intervenors discussed NS Power's Decarbonization Deferral Account (DDA), and were interested in the COS impact if the scope of the DDA were to broaden in the future.

As a result of federal and provincial legislation regarding decarbonization, NS Power is required to retire coal-fired assets and associated marine unloading and fuel delivery facilities by 2030. NS Power has not fully recovered its investment in the assets it expects to retire or the costs it will incur to decommission these facilities. In order to recover these energy transition costs in a more affordable manner, NS Power applied to the Board to transfer these costs to the DDA. The Board issued its Order approving the DDA on May 21, 2024.

The current NSUARB-approved DDA COS treatment is the appropriate scenario to consider as part of this COSS proceeding, and it would be premature to speculate on how the DDA scope could change in the future. Any changes to the scope of the DDA would require regulatory approval and the resulting COS implications would be best addressed in that proceeding, or subsequently.

In respect to proposed treatment of current DDA, the underlying assets will be included in the DDA once they have been retired and therefore will be considered not used and not useful. As such, NS Power proposes that the DDA be treated as a regulatory asset and treated in the same way as other regulatory assets for COS purposes. Historically for regulatory assets, NS Power has apportioned to rate classes reflecting their responsibilities for total rate base as reflected in Exh 3 of COSS.[1] Accordingly regulatory amortization costs are treated as follows:

---

[1] For example, for the 2023 COSS purposes, filed in the 2023-2024 GRA, the DDA cost of $1.1 million was included in the total regulatory amortization of $12.1 million, net of the FAM amount of $52.5 million, which in turn was combined with the Corporate Tax amount of $14.4 million totaling $26.6 million. Also, costs associated with section 21 were also treated in the same manner in past GRA proceedings.

- Functionalized among the four service areas of generation, transmission, distribution (according to the portion of total rate base each function represents), and retail,

- Classified to all services of energy, demand and customer within each service area as applicable in accordance with other functionalized amounts, and

- Apportioned to rate classes consistent with their shared responsibility for investment in the above categories.

Additional Comments

NS Power was asked in the October 16th session to elaborate on the DDA memo on the following item:

- Has NS Power given consideration regarding whether DDA should be allocated as environmental goals?

In addition, NS Power was asked via October 11, 2024 by the CA's consultant to provide the following clarifications:

- The memo references regulatory assets as being included in Exhibit 3. Could NS Power please provide more specific direction as to the location, I'm unable to locate such a line item.

- Second, could NS Power please provide a list of current or recent regulatory assets that are allocated in this manner

NS Power Response

Although the early retirements of coal units are driven by policy changes requiring NS Power to be off coal by 2030 and 80 percent renewable by 2030, the establishment of the DDA was primarily justified as a rate stabilization tool. Without the establishment of the DDA these coal units would have otherwise required an increase in their depreciation rates to reflect the accelerated retirement dates of the units, therefore resulting in significant rate pressure for customers in the near term.

The company has added some pros and cons to an alternative treatment of the DDA being classified 100 percent to energy, below:

Pros	Cons
Would be consistent with fuel conversion and emission reduction classification.	Does not align with the view that the DDA is a rate stabilization tool and was established to provide stability in rate impacts to customers .
	Inconsistent with historical treatment of other regulatory assets and rate stabilization tools/deferrals.
	The DDA represents the remaining NBV of assets that will no longer be used and useful vs investments made for the purpose of achieving environmental targets.

Within the COSS there are both regulatory assets and regulatory amortization expenses. Regulatory amortization of $12.1 million is included in the corporate tax line item of $26.6 million in Schedule 4 details (cell reference C167). Footnote 1 in the memo describes the breakdown of the Corporate Taxes contained in "Schedule 4 Detail" among rate classes. The Corporate Taxes are apportioned to rate classes based on their responsibilities for the system rate base within each service area and type of service. The breakdown of regulatory amortization of $12.1 million for 2023 can be found in Figure 7-1 of DE-03 – DE-4 of the M10431 which also includes the FAM Fuel Cost Deferral of $52.5 million. For Regulatory Assets these items are within Def – Chg – Other of $274.8 million and can be found in Schedule 2 cell reference C61. As is the case with the regulatory amortization expense, the regulatory assets are apportioned to rate classes in proportion to their responsibilities for total rate base. This is done in three steps:

1. In Exh 2 the regulatory amortization is broken down by the three service areas of Generation, Transmission and Distribution in proportion to their relative size.

2. In Exh 2a and 2b the regulatory amortization within each service area is broken down by services of demand, energy and customer.

3. In Exh 3 the regulatory amortization within each service area and type of service is broken down by rate classes.

Nova Scotia POWER An Emera Company
PO Box 910 • Halifax, Nova Scotia • Canada • B3J 2W5

Memorandum
To: Participants in NS Power COSS Stakeholder Process
From: NS Power
Date: November 1, 2024
Re: Written Response regarding General Plant - Updated

The COSS work plan outlines the following item for NS Power to provide a written response:

3. Review of Treatment of General Plant

During discussion in the COSS Stakeholder Engagement Session 2, held on February 22, 2024, intervenors noted that when looking at the COSS, General Plant costs had grown significantly. Intervenors were interested in an analysis of the General Plant investment and its impacts on COSS.

The General Plant category primarily consists of NS Power's investment in facilities, which includes buildings structures and grounds, communication equipment, transportation equipment (such as the company's work vehicles), and the company's IT infrastructure.

The Net Book Value (NBV) of General Property is tracked by NS Power as a separate investment category and for COSS purposes requires functionalization. Currently, its rate base and depreciation expenses are apportioned among the three service areas of generation, transmission and distribution, on the basis of the relative NBV shares of these three service areas. Other general property related expenses, such as interest, taxes and return are also apportioned among the above service areas based on their relative investment shares.

The table below depicts the Company's net book value of the General Plant depreciation pools at December 31, 2011 and December 31, 2023.

	Net Book Value, at December 31, in millions.	
	2011 ($)	**2023 ($)**
Land Rights - General Plant	9.7	14.4
Structures and Improvements	101.5	112.7
Office Furniture and Equipment	2.6	3.3
Office Furniture and Equipment - Computer Hardware	14.8	18.6
Office Furniture and Equipment - Computer Software	17.6	182.7
Transportation equipment	32.6	43.2

	Net Book Value, at December 31, in millions.	
	2011 ($)	2023 ($)
Stores Equipment	0.1	-
Communication Equip	17.4	42.3
Communication Equip - SCADA	2.1	18.3
Remote Monitoring Equipment	0.7	1.3
Misc Equipment	15.3	23.5
Roads, Bridges and Trails	0.4	0.2
Mining equipment	1.0	0.3
Salvage	4.9	4.9

As shown in the table above, significant growth has occurred in the Company's IT infrastructure, primarily within the Computer Software depreciation pool, where there has been an increase in the net book value of $165 million from 2011 to 2023. The Company invested in significant IT infrastructure upgrades over the past 12 years; these include, but are not limited to, the following projects: ERP Upgrade, Work and Asset Management, Customer Energy Management, Data Center Disaster Recovery, and ADMS Upgrade.

In addition to the increase within the Computer Software depreciation pool, the Communication Equipment pools have experienced growth in investment between 2011 and 2023. This is primarily due to the investment required as part of the Advanced Meter Infrastructure project, resulting in approximately $12 million in additions to the Communication Equipment depreciation pool.

In light of the specific nature of the computer software and communication equipment asset groups, which show the most dynamic growth, and due to the nature of the specific projects that make up the assets in these classes, they can by more easily attributable to specific service areas. NS Power therefore proposes that investments in computer software and communication equipment be directly functionalized between generation, transmission, distribution, and retail where appropriate, and the remaining NBV be allocated using the current methodology as part of future COSS. Going forward, NS Power will continue to seek opportunities to directly functionalize other investment categories within General Plant and will identify the changes in the related filings.

Additional Information per Stakeholder Request

For example, please refer to the table below for 3 examples of projects that were added to the Computer Software depreciation pool over the period, which the Company would seek to functionalize differently in a future GRA:

P977	IT - Work and Asset Management	55,225,663.60
C0021442	AMI Network Assets 2	30,481,370.92
C0026426	- IT-Customer Energy Management	6,649,483.97
P880	Work & Asset Management	5,618,091.81

In the current COS, these assets were included in General Plant and were functionalized proportionately among Generation, Transmission, and Distribution. Work and Asset management assets directly support the Distribution function of the business and are proposed to be functionalized directly to this area. The criteria that would be used to determine when NS Power would directly functionalize is when a capital investment's primary use can be directly attributable to that functional area. Please also refer to PHP DR-28.

The five-year forecast within the 2024 ACE plan shows that the investment level in general plant, which includes IT software and communication investments continues to be an area of significant investment and warrants a refinement in its COS approach. Please refer to the table below.

General Plant Category	**2025**	**2026**	**2027**	**2028**
Computer Hardware	4.0	4.5	5.3	4.6
Computer Software	15.6	22.6	23.7	21.8
Vehicles	21.4	20.2	17.3	17.8
Telecommunication	15.2	15.3	15.3	4.3
Other	9.2	9.1	9.0	9.1
Total	65.4	71.7	70.6	57.7

From: Morris, Mollie
To: Aaron Long; acoffin@eastwardenergy.com; acostello@eastwardenergy.com; adam.hayter@eastportproperties.ca; Akash Prasad; Alexandra Gosse; Ali Al-Jabir; Allen, Sandy; Andrew Blair; Bell, Anthony; Bevan Lock; bill@washingtonmahody.com; Bruce Outhouse; bruce.cameron@envigour.ca; brudderham@stewartmckelvey.com; brushettd@gmail.com; Brydon, BeckyAnne; Caroline Palmer; CConrad@efficiencyns.ca; Chipp, Jamie; Colin Fitzhenry; Cook, Riley; dan@roswall.ca; Daniel.Boyle@novascotia.ca; david.macdougall@mcinnescooper.com; Devashri Karve; dmacdonald@stewartmckelvey.com; Don Regan; droberts@pinklarkin.com; Ferguson, Eric; Flemming, Craig; Girish.patel@novascotia.ca; Green, Peggy; Grus, Voytek; gthompson@efficiencyns.ca; hbrown@efficiencyns.ca; Heisler, Justin; Henderson, Brendon; Holly Chisholm; htheriault@pinklarkin.com; james.gogan@mcinnescooper.com; james.macduff@mcinnescooper.com; Janet MacNeil; Jeremy.Smith@novascotia.ca; John Athas; John Esaiw; John Todd; jrangooni@energystoragecanada.org; judy.wall@eastportproperties.ca; jwilson@gridstrategiesllc.com; kburke@efficiencyns.ca; kmcdonald@efficiencyns.ca; Langille, Leigha; Lanteigne, Chris; Libby McNamara; lmclements@stewartmckelvey.com; Lucia Westin-Eastaugh; MacKillop, Ian; MacLean, Marie; MacLean, Monique; MacLeod, Glen; mdavies@mnydconsulting.ca; Melissa Pike; Melissa Whited; Melissa Whitten; mjohnston@eastwardenergy.com; mmacadam@blackburnlaw.ca; mmurphy@pinklarkin.com; Morris, Mollie; Munroe, Karynne; Myatt, Lana; Nathan Stanley; nrubin@stewartmckelvey.com; patrick@pdbateman.ca; pbowman@bowmaneconomics.ca; Peachey, Erin; Pecurica, Dragan; Peter.T.Craig@novascotia.ca; Powell, Rebakah; Power, Jennifer; Qabil Badshah, Shoaib; Raylene Langor; rdouglas@naturalforces.ca; Saeid Dindarloo; sandy@roswall.ca; sdurling@blackburnlaw.ca; Searle, Jill; shannon@washingtonmahody.com; Sonny Simpson; Stanford1, David; taylor@washingtonmahody.com; Too, Erick; wardm@halifax.ca; Willett, Michael; Williams, Blake; Young, James
Subject: COSS - Chart Describing Updated NS Power Positions
Date: December 5, 2024 5:16:34 PM
Attachments: 2024-12-05 - Chart Describing NS Power Updated Positions (Post-Resolution Sessions).pdf

---

Hi Everyone,

Please see attached a chart summarizing NS Power's updated positions following the resolution sessions, along with a summary of the justifications for any updates made.

The models that reflect the updated position have been uploaded to the FTP site, with the following file names:

- 00-GRA 2023 COSS 14b. Updated NSP Positions (Nov 15) PHP ATL
- 00-GRA 2023 COSS 14b. Updated NSP Positions (Nov 15) PHP BTL
- 2023 - BCF Refresh- 14b. Updated NSP Positions (Nov 15) PHP ATL
- 2023 - BCF Refresh- 14b. Updated NSP Positions (Nov 15) PHP BTL

Thanks,

Mollie

Mollie Morris (she/her) | Regulatory Counsel | **Nova Scotia Power**
T: 902-219-0349
E: mollie.morris@nspower.ca
www.nspower.ca

	Status Quo	CTD Reference	NS Power Position (Pre-Resolution Session)	NS Power Updated Position (Following Resolution Session)	Justification for Updated Position
1. Generation Functionalization					
1 i)	**Description: Generation sub-functionalization**	**Issues 1a, 1b, 1c, 1d, 1e**			
	Net plant subfunctionalized to Steam, Hydro, Wind, LM6000, and Gas Turbine.		Separate Steam into Intermediate Generation and remaining Steam. Otherwise, maintain status quo. Please refer to PHP DR-21 Att 1 for details.	NS Power is proposing that all generation assets be classified based on SLF. Therefore, under this proposal, there is no need to sub-functionalize generation assets any longer.	• Recognizes that the generation system is designed and managed as part of an integrated system • Supports stability • Provides a simpler, consistent approach to COS classification • In alignment with industry practice/other jurisdictions in Canada • Produces similar cost effects as previous, disaggregated approach of NS Power
1 ii)	**Description: Refunctionalization from Transmission**	**Issues 2c & 8**			

	No refunctionalization in effect.		Re-functionalize portion of transmission related to radial to generation to generation based on OATT calculations in tab "Trans - Fig 5.9" and to be treated as a separate item in all exhibits. Also see item 2 iii) below.	No change in position.	N/A (no updates)
1 iii)	**Description: FAM-related cost sub-functionalization and/or refunctionalization to Transmission**	**Issues 1a, 1b, 1c, 1d, 1e**			
	Fuel and purchases subfunctionalized by Fuel, Imports, Biomass Purchases, Wind Purchases, Maritime Link, and Other Purchases. No cost refunctionalization to other service areas.		Maintain status quo	All purchases providing firm capacity to be classified on SLF, purchases providing no capacity to be classified to energy.	• Aligns PPAs providing firm capacity with COS treatment applicable to generation assets • Recognizes that non-firm PPAs provide energy only
2. Transmission Functionalization					
2 i)	**Description: EHV/HV Sub-functionalization**	**Issue 2c**			

	Transmission is sub-functionalized between EHV/HV.		Maintain EHV/HV subfunctionalization (update allocators that exclude HV for EHV customers - see 8. Transmission Allocation)	NS Power proposes to eliminate differentiation of EHV/HV.	• Recognizes that EHV and HV are designed and managed as part of an integrated transmission system • Consistent with OATT methodology
2 ii)	**Description: Grid Scale Storage**	**Issues 2b & 2d**			
	No sub-functionalization of batteries		Sub-functionalize grid-scale batteries separately to be classified by ELCC	Batteries to be functionalized in accordance with their primary function/location on the power system.	• Aligns COS with the primary function they provide to the system.
2 iii)	**Description: Generation Radial Lines**	**Issues 2c & 8**			
	Generation radial lines functionalized as Transmission		Refunctionalize generation radial lines to Generation Service Area.	No change in position.	N/A (no change)
2 iv)	**Description: Interconnections**	**Issue 2e**			

	No sub-functionalization of Interconnections		Maintain status quo (classify 100% demand)	No change in position.	N/A (no change)
2 v)	**Description: Bulk Power Substations**	**Issues 2b & 8**			
	Bulk power substations refunctionalized from Transmission to Distribution		Maintain status quo	No change in position.	N/A (no change)
3. Distribution Functionalization					
3 i)	**Description: Distribution Sub-functionalization**	**Issues 3a, 3b, and 4**			
	Distribution plant is functionalized to Substations, Poles & Fixtures, OH Lines, UG Lines, Line Transformers, Services, Meters, Street Lighting, Land, Easements & Survey, and Other		Maintain status quo	No change in position.	N/A (no change)

	Poles & Fixtures, OH Lines, and UG Lines are sub-functionalized between primary & secondary		Maintain status quo	No change in position.	N/A (no change)
3 ii)	**Description: Distribution Refunctionalization**	**Issues 2b & 8**			
	Bulk power substations refunctionalized from Transmission to Distribution. See item 2 v) above.		Maintain status quo	No change in position.	N/A (no change)
4. Generation Classification					
4 i)	**Description: Classification of non-fuel related generation by sub-functional service areas**	**Issues 1a, 1b, 1c, 1d, 1e**			
	Steam Plant Classification: System load factor		Create intermediate generation sub-function that is classified by the plant's capacity factor. Classify remaining Steam by system load factor	NS Power is proposing uniform classification of all generation assets by SLF.	• Recognizes that the generation system is designed and managed as part of an integrated system • Supports stability • Provides a simpler, consistent approach to COS classification

					• In alignment with industry practice/other jurisdictions in Canada • Produces similar cost effects as previous, disaggregated approach of NS Power
	Hydro Plant Classification: System load factor		Maintain status quo	See above	See above
	Wind Plant Classification: ELCC %		Maintain status quo	See above	See above
	LM6000 Plant Classification: System load factor		Maintain status quo	See above	See above
	Gas Turbine Plant Classification: 100% Demand		Maintain status quo	See above	See above
4 ii)	**Description: Classification of fuel (subject to FAM) generation by sub-functional serivce areas**	**Issues 1a, 1b, 1c, 1d, 1e**			
	Plant Fuel Costs: Classified 100% to Energy		Maintain status quo	No change in position.	N/A (no change)

	Imports (Inclusive of Surplus Block under ML): Classified 100% to Energy		Maintain status quo	No change in position.	N/A (no change)
	Imports (Basic and Supplemental Blocks under ML): Classified to Energy based on the System Load Factor		Maintain status quo (Please see responses to IG DR-04, PHP DR-19, PHP DR-20, CA DR-70)	No change in position.	N/A (no change)
	Purchased Power - Biomass Classification: Fuel 100% energy, capital/operating classified by weighted average generation rate base		Maintain status quo	Uniform classification by SLF.	• Consistent with broader recognition of purchased power within a broader resource portfolio • Consistent with COS treatment of other generation resources
	Purchased Power - Wind: Classified to energy by (1-ELCC) factor		Maintain status quo	See above	See above
	Purchased Power - Other Classification: Weighted average generation rate base		Maintain status quo	See above	See above
	Radial to Generation transmission is not included		Radial to Generation transmission to be classified 100% to Demand.	Radial to Generation transmission to be classified by SLF.	See above
5. Transmission Classification					

5 i)	**Description: Transmission Classification**	**Issue 1a(i)**			
	Transmission is classified by the system load factor		Classify 100% as demand (except new batteries sub-function)	All transmission assets, including batteries, classified 100% to demand	• Uniform treatment of transmission assets, and batteries with a primary function of supporting transmission, as an integrated system
5 ii)	**Description: Batteries Classification**	**Issues 2b & 2e**			
	Included in overall Transmission function so it is classified by the system load factor		Classify to Energy by (1-ELCC) factor under "Further Classification"	Classification of batteries will be required under the functional areas of generation, transmission, and distribution. NS Power proposes that this be done as follows: Batteries considered as generation assets will be classified under SLF. Batteries considered as transmission assets will be classified 100% to demand. Batteries considered as distribution assets will be classified in accordance with weighted average classification of remaining distribution assets to customer and demand.	• Aligns COS treatment of batteries with other assets from the corresponding service areas

6. Distribution Classification					
6 i)	**Description: Distribution Classification by Sub-Function**	**Issue 3c & 4**			
	Substations: 100% Demand		Maintain status quo	No change in position.	N/A (no changes)
	Poles & Fixtures: Minimum System Method		Maintain status quo	No change in position.	N/A (no changes)
	OH & UG Lines: Minimum System Method		Maintain status quo	No change in position.	N/A (no changes)
	Transformers: 100% Demand		Maintain status quo	No change in position.	N/A (no changes)
	Services: 100% Customer		Maintain status quo	No change in position.	N/A (no changes)
	Meters: 100% Customer		Maintain status quo	No change in position.	N/A (no changes)
	Street Lighting: Directly Allocated		Maintain status quo	No change in position.	N/A (no changes)
	Land, Easements & Survey, and Other: Weighted average of Substations, Poles, and Wires classifications		Maintain status quo	No change in position.	N/A (no changes)
7. Generation Allocation					
7 i)	**Description: Energy Allocation**	**Issue 1a**			

	Allocate energy-classified generation costs by annual loss-adjusted energy, except fuel and imports that are allocated by monthly loss-adjusted energy		Maintain status quo	No change in position, with the exception of firm PPAs where energy related portion of these PPAs will be allocated based on monthly as opposed to annual energy.	• Better aligns allocation of energy costs with usage
7 ii)	**Description: Demand Allocation**	**Issue 1a**			
	Allocate demand-classified generation costs by 3CP		Maintain status quo	No change in position, with additional justification as described.	NS Power conducted an analysis of several alternative methodologies utilizing both an increased and decreased number of peak hours. Results indicate limited change. NS Power is recommending the status quo be maintained for the following reasons: • 3CP remains well aligned with cost causation • Well-established practice within Nova Scotia • Alignment with industry practice • Maintenance of stability • Simplicity
	Refunctionalized radial to generation transmission - not in effect		Allocate refunctionalized radial to generation costs from	Energy related costs to be allocated based on energy and	• Aligns with treatment of all other assets in the generation service area

			generation to transmission by 3CP	demand related costs to be allocated based on 3CP.	
8. Transmission Allocation					
8 i)	**Description: Energy Allocation**	**Issue 1a(i)**			
	Allocate energy-classified EHV transmission costs by annual loss-adjusted energy		N/A - Propose to classify as demand	No change in position.	N/A (no change)
	Allocate energy-classified HV transmission costs by annual loss-adjusted energy (including EHV loads for non ELIADC classes)		N/A - Propose to classify as demand with all EHV connected customers being exempted from payment for the HV portion of transmission costs.	No change in position.	N/A (no change)
	No batteries sub-function		Allocate energy-classified batteries by annual loss-adjusted energy	Allocate 100% to demand.	• Aligns COS treatment of batteries with other assets from the corresponding service areas
8 ii)	**Description: Demand Allocation**	**Issues 1a(i) & 2c**			

	Allocate demand-classified EHV transmission costs by 3CP		Maintain status quo	No more distinction between EHV and HV, all transmission costs classified 100% to demand and allocated on 3CP.	• Recognizes that EHV and HV are designed and managed as part of an integrated transmission system • Classified in accordance with transmission costs
	Allocate demand-classified HV transmission costs by 3CP (including EHV loads for non-ELI 2P-RTP classes)		Allocate demand-classified transmission costs by 3CP with all EHV connected customers being exempted from payment for the HV portion of transmission costs.	No more distinction between EHV and HV, all transmission costs classified 100% to demand and allocated on 3CP.	• Recognizes that EHV and HV are designed and managed as part of an integrated transmission system • Classified in accordance with transmission costs
	No batteries sub-function		Allocate demand-classified batteries by 3CP	No change in position.	N/A (no change)
9. Distribution Allocation					
9 i)	**Description: Demand Allocation**	**Issue 3d**			

	Allocate demand-classified distribution costs by annual NCP		Maintain status quo	No change in position	N/A (no change)
9 ii)	**Description: Customer Allocation**	**Issues 3d & 4**			
	Primary Poles: Allocate by primary customer count		Maintain status quo	No change in position.	N/A (no change)
	Secondary Poles: Allocate by secondary customer count		Maintain status quo	No change in position.	N/A (no change)
	Primary OH & UG Lines: Allocate by primary customer count		Maintain status quo	No change in position.	N/A (no change)
	Secondary OH & UG Lines: Allocate by secondary customer count		Maintain status quo	No change in position.	N/A (no change)

	Services: Allocate by weighted customer count using service weighting factors		Maintain status quo	NS Power will gather further data to help develop alternate allocation of these service costs	• Board Directive
	Meters: Allocate by weighted customer count using meter weighting factors based on meter install costs		Maintain status quo	No change in position.	N/A (no change)
10. General Plant					
10 i)	**Description: General Plant Functionalization/Classification/Allocation**	**Issue 5**			
	General Plant Net Book Value (NBV) and depreciation expense are apportioned among the three service areas of generation, transmission and distribution on the basis of their relative shares. General property capital-related expenses, other than depreciation, such as interest, taxes and return are apportioned among the above service areas based on their relative NBP shares.		NBV and capital expenses associated with computer software and communication equipment, the fastest growing categories in recent years, are proposed to be directly functionalized among generation, transmission, distribution, and retail service areas. The remaining categories are proposed to continue to be functionalized based on the relative shares of the three service areas as is the case under the current approach.	Please see updates to general plant memo per stakeholder comments.	

11. Review Rate Class Mix					
11 i)	**Description: PHP as separate above-the-line rate class**	**Issue 7**			
	PHP is a below-the-line rate class		Move PHP to an above-the-line rate class with cost responsibility for generation and EHV transmission.	No change in position.	N/A (no change)
12. Line Loss Study Update					
12 i)	**Description: NSP is undertaking a line loss study**	**Issue 9**			
	Loss factors are based on old study		Update line losses by rate class when study is complete	No change in position.	N/A (no change)
13. Rate Riders					
13 i)	**Description: DSM Rate Rider**	**Issue 10**			

	DSM cost are allocated 25% by system benefit (SLF) and 75% by customer benefit (tracked costs by rate class)		Absent specific proposals from stakeholders to change the current methodology maintain status quo.	DSM costs to be allocated based 100% by customer benefit (tracked costs by rate class)	• Consistent with other jurisdictions • Simulation results indicated must reduced system benefit compared to status quo
13 ii)	**Description: Interruptible Rate Rider**	**Issue 10**			
	The current Interruptible Rider methodology is described in response to CA DR-77.		Maintain status quo	No change in position.	N/A (no change)

Nova Scotia POWER An Emera Company

PO Box 910 • Halifax, Nova Scotia • Canada • B3J 2W5

Memorandum
To: Participants in NS Power COSS Stakeholder Process
From: NS Power
Date: December 6, 2024
Re: Written Response regarding General Plant – Update 2

The COSS work plan outlines the following item for NS Power to provide a written response:

3. Review of Treatment of General Plant

During discussion in the COSS Stakeholder Engagement Session 2, held on February 22, 2024, intervenors noted that when looking at the COSS, General Plant costs had grown significantly. Intervenors were interested in an analysis of the General Plant investment and its impacts on COSS.

The General Plant category primarily consists of NS Power's investment in facilities, which includes buildings structures and grounds, communication equipment, transportation equipment (such as the company's work vehicles), and the company's IT infrastructure.

The Net Book Value (NBV) of General Property is tracked by NS Power as a separate investment category and for COSS purposes requires functionalization. Currently, its rate base and depreciation expenses are apportioned among the three service areas of generation, transmission and distribution, on the basis of the relative NBV shares of these three service areas. Other general property related expenses, such as interest, taxes and return are also apportioned among the above service areas based on their relative investment shares.

The table below depicts the Company's net book value of the General Plant depreciation pools at December 31, 2011 and December 31, 2023.

	Net Book Value, at December 31, in millions.	
	2011 ($)	**2023 ($)**
Land Rights - General Plant	9.7	14.4
Structures and Improvements	101.5	112.7
Office Furniture and Equipment	2.6	3.3
Office Furniture and Equipment - Computer Hardware	14.8	18.6
Office Furniture and Equipment - Computer Software	17.6	182.7
Transportation equipment	32.6	43.2

	Net Book Value, at December 31, in millions.	
	2011 ($)	2023 ($)
Stores Equipment	0.1	-
Communication Equip	17.4	42.3
Communication Equip - SCADA	2.1	18.3
Remote Monitoring Equipment	0.7	1.3
Misc Equipment	15.3	23.5
Roads, Bridges and Trails	0.4	0.2
Mining equipment	1.0	0.3
Salvage	4.9	4.9

As shown in the table above, significant growth has occurred in the Company's IT infrastructure, primarily within the Computer Software depreciation pool, where there has been an increase in the net book value of $165 million from 2011 to 2023. The Company invested in significant IT infrastructure upgrades over the past 12 years; these include, but are not limited to, the following projects: ERP Upgrade, Work and Asset Management, Customer Energy Management, Data Center Disaster Recovery, and ADMS Upgrade.

In addition to the increase within the Computer Software depreciation pool, the Communication Equipment pools have experienced growth in investment between 2011 and 2023. This is primarily due to the investment required as part of the Advanced Meter Infrastructure project, resulting in approximately $12 million in additions to the Communication Equipment depreciation pool.

In light of the specific nature of the computer software and communication equipment asset groups, which show the most dynamic growth, and due to the nature of the specific projects that make up the assets in these classes, they can by more easily attributable to specific service areas. NS Power therefore proposes that investments in computer software and communication equipment be directly functionalized between generation, transmission, distribution, and retail ~~where appropriate~~ where the main purpose of those investments serve the area they are being directly functionalized to, and the remaining NBV be allocated using the current methodology as part of future COSS. Going forward, NS Power will continue to seek opportunities to directly functionalize other investment categories within General Plant and will identify the changes in the related filings.

NS Power acknowledges that some of these investments will have multiple purposes. In those cases, the Company will identify the primary purpose of the investment, and the investment will be functionalized on that basis. For example, an IT Work and Asset Management Investment may be related to both distribution and transmission. However, the primary purpose of that investment is distribution, while the impacts on transmission

are secondary. As a result, IT Work and Asset Management Investment would be functionalized to distribution. Although a degree of professional judgment will be required, NS Power still views this method as more accurate than the previously employed method.

Additional Information per Stakeholder Request

For example, please refer to the table below for 3 examples of projects that were added to the Computer Software depreciation pool over the period, which the Company would seek to functionalize differently in a future GRA:

P977	IT - Work and Asset Management	55,225,663.60
C0021442	AMI Network Assets 2	30,481,370.92
C0026426	- IT-Customer Energy Management	6,649,483.97
P880	Work & Asset Management	5,618,091.81

In the current COS, these assets were included in General Plant and were functionalized proportionately among Generation, Transmission, and Distribution. Work and Asset management assets directly support the Distribution function of the business and are proposed to be functionalized directly to this area. The criteria that would be used to determine when NS Power would directly functionalize is when a capital investment's primary use can be directly attributable to that functional area. Please also refer to PHP DR-28.

The five-year forecast within the 2024 ACE plan shows that the investment level in general plant, which includes IT software and communication investments continues to be an area of significant investment and warrants a refinement in its COS approach. Please refer to the table below.

General Plant Category	**2025**	**2026**	**2027**	**2028**
Computer Hardware	4.0	4.5	5.3	4.6
Computer Software	15.6	22.6	23.7	21.8
Vehicles	21.4	20.2	17.3	17.8
Telecommunication	15.2	15.3	15.3	4.3
Other	9.2	9.1	9.0	9.1
Total	65.4	71.7	70.6	57.7

- Session 1: January 18, 2024
    - Two-hour session
    - Topics: Initial Session, Introduction to Expert
    - Summary:
        - NS Power introduced its third-party COSS consultant, Elenchus Research Associates Inc. (Elenchus), who provided a background on cost allocation methodologies, and outlined its approach to facilitate the COSS process.

- Session 2: February 22, 2024
    - Full day session
    - Topics: Overview of Issues List and NS Power's current COSS
    - Summary:
        - NS Power made two presentations with additional technical background on the COSS, as follows:
            - Overview of NS Power's latest IRP Update, NS Power's Path to 2030, and anticipated changes to the system; and
            - Overview of NS Power's current COS model.
        - NS Power also offered to present on other general background issues and Elenchus asked stakeholders to provide requests for other topics to be addressed. No requests for additional topics were received in advance of the session.
        - A draft issues list prepared by Elenchus and NS Power was also reviewed with stakeholders. The draft issues list was circulated in advance and comments were invited and received from stakeholders in advance. Elenchus provided a presentation that introduced the issues and reviewed NS Power's current COSS. NS Power also elaborated on how those issues are dealt with in the current COS and the justification for that treatment. Areas for potential change were also identified and flagged on a preliminary basis. There was also an opportunity for discussion, and NS Power received and responded to questions and comments related to the draft issues list.

- Session 3: March 13, 2024
    - Half-day session
    - Topics: reviewed work plan and timelines, Bill 404 impact, DSM
    - Summary:
        - This session included a review of the work plan and timelines. A consolidated version of the issues list was also prepared in advance of this session based on stakeholder feedback received in Session #2 and that consolidated issues list was reviewed with stakeholders at this session.
        - The primary topic for this session was the treatment of DSM. This

presentation included information on the DSM cost recovery process, the 2023-2025 DSM resource plan, regulatory background behind the current DSM cost allocation methodology, and an explanation of the allocation of DSM program costs.
    - NS Power also provided a statement in response to questions surrounding the introduction of Bill 404 and potential impacts on the COSS.

- Session 4: April 10, 2024
    - Half-day session
    - Topics: Generation (part 1) – pros/cons of continued use of system load factor (SLF), consistency of generation and transmission treatment/classification between energy and demand
    - Summary:
        - This was the first of two sessions focused on generation topics. NS Power presented on fuel and non-fuel cost classification in COS, the rationale behind SLF-based classification and pros/cons of SLF-based classification, and an overview and history of methods considered in past proceedings (including NS Power's position on classification of transmission).
        - John Wilson, consultant for the CA, also provided a presentation on an alternative approach to classifying generation and transmission costs. Intervenors and NS Power then had the opportunity to ask questions and discuss this presentation.

- Session 5: April 29, 2024
    - Half-day session
    - Topics: Generation (part 2) – implications of increased generation diversity, "new" generation resources, presentation from PHP on alternative approach to treatment of generation
    - Summary:
        - NS Power provided additional information regarding generation mix at peak in response to comments and questions from intervenors arising at the previous session.
        - Brubaker & Associates, Inc (BAI), consultants for PHP, and Daymark Associates, consultants for the SBA, each gave presentations. NS Power and Intervenors then had the opportunity to ask questions and discuss these presentations.

- Session 6: May 16, 2024
    - Half-day session
    - Topics: Transmission – functionalization between transmission and generation (Maritime Link, Reliability Tie); functionalization between transmission and distribution (bulk power substation, batteries); sub-

functionalization between EHV and HV categories; classification of transmission based on SLF and allocation of demand related costs based on 3CP; "new" transmission resources (includes grid scale battery, ancillary service technologies); transmission links to other systems.

- Summary:
  - In advance of session 6, Elenchus circulated a Consensus Tracking Document (CTD) summarizing NS Power's initial position on the majority of issues from the summary circulated on April 18 and asking intervenors to provide their own positions.
  - The CTD document was used as a framework for the discussion of transmission and NS Power recapped and expanded on their positions for intervenors, who were also invited to comment and present their position on each transmission topic. There was also an open discussion and question period for each transmission topic.
  - NS Power and BBA, the expert retained for the line loss study, provided an update on the status of the line loss study. Intervenors were informed that the study was in an exploratory phase and provided an approximate timeline for preliminary results. Intervenor feedback was also requested and there was an opportunity for questions and discussion on the topic of the line loss study.
  - Using additional time remaining, Elenchus went back through the CTD to identify areas where consensus could potentially be reached, where parties had developed positions, and areas where further discussion was required.

- Session 6.5: May 27, 2024
  - 1.5 hour session
  - Topics: overview of Minimum System Study, as requested by stakeholders
  - Summary:
    - Based on intervenor feedback, Elenchus provided a presentation on Minimum System Study, Zero-Intercept Methodology, and the Basic Customer method with an opportunity for questions and discussion following the presentation.

- Session 7: June 3, 2024
    - Full-day session
    - Topics: Distribution - functionalization (transmission vs distribution); sub-functionalization by voltage: bulk power substation, primary, secondary (may cover review of large customer classification by connection); equity impact of increased detail; classification between customer and demand; data limits; allocation: continued use of weighted customer numbers in allocation of service drop costs, use of hourly data in lieu of non-coincident class peaks (includes Distribution Circuit Cost Causation: examination using AMI data); treatment of Retail: review of classification of customer costs, minimum system study; review of treatment of public policy or legislative investments in COSS; review rate class mix subject to distinct cost allocation in COSS (PHP, TVP, Net metering class(es))
    - Summary:
        - The parties reviewed the distribution issues on the CTD. NS Power recapped and expanded on their positions for intervenors, who were also invited to comment and present their position on each distribution topic. There was also an open discussion and question period for each distribution topic.
        - Using additional time remaining, Elenchus went back through the CTD to identify areas where consensus could potentially be reached, where parties had developed positions, and areas where further discussion was required.

- Session 8: June 17, 2024
    - Half-day session
    - Topics: alignment of cost of service treatment applied to bundled and unbundled services in RtR (EBS, SS, RTT, OATT) and Wholesale Markets (BUTU, Spill, OATT) (includes Behind the meter, alignment of OATT with COSS, customer provided energy and storage); Line Loss Study update; review of riders (Storm, Interruptible and FAM)
    - Summary:
        - BBA provided a presentation updated intervenors on the Line Loss Study. This presentation included their methodology, activities to date, and next steps.
        - NS Power also provided a presentation on the alignment of COS treatment applied to bundled and unbundled services in the RtR and Wholesale Markets. This presentation included a recap of the background and underlying principles for this topic, RtR market tariff design, and OATT pricing foundations with an opportunity for questions and discussion of related issues.

- Session 9: July 16, 2024
    - Full day session

- Topic: Review of Models
- Summary: In this session, NS Power's third-party COSS consultant, Elenchus Research Associates Inc. (Elenchus) provided a brief overview of the current COSS model, a summary of the model runs completed as of that date, and a detailed walk through of each COSS model run completed. As part of discussion, stakeholders were asked to confirm if additional clarity was needed on model results, if additional modifications or model runs were required to reflect their positions, and provide any other feedback or comments. A number of additional model runs were requested as part of this process.

- Session 9.5: October 3, 2024
  - 2-hour mini session
  - Topic: Bundled vs Unbundled service
  - Summary: NS Power provided an overview of rate alignment between bundled and unbundled markets, in response to questions arising from the session held on July 16, 2024. Items discussed included OATT design, the pricing of electric services to Wholesale Municipalities (MEUs) in bundled and wholesale markets, and how rates in the Wholesale Market versus Renewable to Retail (RtR) markets compare. NS Power proposed amendments to the OATT to help support better alignment between the bundled and unbundled markets, which stakeholders generally appeared to support.

- Session 10: October 16, 2024
  - Full day session
  - Topic: Position discussion prior to formal resolution sessions and Line Loss Study Update
  - Summary: At this session, NS Power's Line Loss Study consultant, BBA, presented an update on the Line Loss Study to date, including the chosen methodology for this study, and stakeholders were asked for input and questions. In addition, this session served as a preparatory session for the two day in-person resolution sessions, so that any outstanding clarifications, questions, models, or data requests could be addressed in advance.

- Resolution Sessions: November 4-5, 2024
  - Two Full day, in-person sessions
  - Topics: Resolution sessions
  - Summary: These sessions were facilitated by Bruce Outhouse (KC), who acted as a third-party mediator. The positions of all parties were documented and updated in a chart throughout the stakeholder engagement process, and this chart was reviewed in detail during these sessions. Extensive discussion and debate concerning the positions of different parties took place during these sessions, with the view of trying to find solutions to issues raised by stakeholders and expert consultants that were suitable for all parties, and

that NS Power and its expert consultant could also support. Although a resolution of all issues was not ultimately reached during these sessions, the discussions were both informative and productive and influenced the Company's proposed updated COSS.

- Final Session: December 9, 2024
  - Half-day session
  - Topic: Final Discussion to close out formal stakeholder engagement
  - Summary: Following the two-day Resolution Sessions, NS Power amended their proposed COSS, taking into account the stakeholder input received. As a result, additional modeling was provided to parties prior to this session to demonstrate NS Power's updated positions and their impacts. In addition, as a result of stakeholder discussion arising from the two-day session, significant modeling was completed to explore alternative treatments to 3CP. This half-day session served as an opportunity to review NS Power's updated positions and modelling results with stakeholders and provide the Company's reasoning for the proposed amendments. Stakeholders were also given the opportunity to ask questions of clarification, request additional information concerning NS Power's updated positions, and indicate their initial positions regarding these updates if desired.

52 Church Street, Suite 222
Toronto, Ontario, M5C 3C8
elenchus.ca

Nova Scotia Power Inc. Cost of Service Study Consultation Report

Report prepared by
Elenchus Research Associates Inc.

Draft 25 April 2025

Table of Contents

Executive Summary 5
1 Introduction 8
1.1 Overview 8
1.2 Theory of Cost Allocation 10
1.3 Generally Accepted Utility Ratemaking Principles 11
1.3.1 Revenue Related 12
1.3.2 Cost Related 13
1.3.3 Practical Related 14
1.4 The Most Relevant Ratemaking Principles for Cost Allocation 14
2 Overview of Stakeholder Process 15
3 Summary of NS Power Proposed Methodology 17
4 Generation 18
4.1 Functionalization 18
4.1.1 Rate Base, Depreciation, and OM&A 18
4.1.2 Fuel and Purchases 19
4.1.3 Radial-to-Generation 20
4.1.4 Storage 21
4.2 Classification 22
4.2.1 Rate Base, Depreciation, and OM&A 22
4.2.2 Fuel and Purchases 25
4.2.3 Radial-to-Generation 26
4.2.4 Storage 27
4.3 Allocation 27
4.3.1 Rate Base, Depreciation, and OM&A 27
4.3.2 Fuel and Purchases 28
4.3.3 Radial-to-Generation & Storage 29
5 Transmission 30

5.1 Functionalization 30
5.1.1 General Transmission 30
5.1.2 Radial-to-Generation 31
5.1.3 Storage 31
5.2 Classification 32
5.2.1 General Transmission 32
5.2.2 Radial-to-Generation 33
5.2.3 Storage 33
5.3 Allocation 34
5.3.1 General Transmission 34
5.3.2 Radial-to-Generation & Storage 35
6 Distribution 35
6.1 Functionalization 35
6.1.1 Distribution Functionalization Methodology 35
6.2 Classification 37
6.2.1 General Distribution 37
6.2.2 Minimum System Methodology 38
6.2.3 Storage 42
6.3 Allocation 42
6.3.1 Distribution Allocation Methodology 42
7 Other Matters 44
7.1 Retail 44
7.1.1 Current Retail Methodology 44
7.1.2 NSP Proposed Approach 45
7.1.3 Elenchus Opinion 45
7.2 General Plant 46

7.2.1 Current General Plant Methodology 46
7.2.2 NSP Proposed Approach 47
7.2.3 Elenchus Opinion 47
7.3 Rate Classifications 47
7.3.1 Rate Classifications 47
7.3.2 NSP Proposed Approach 48
7.3.3 Elenchus Opinion 48
7.4 Line Losses 48
7.4.1 Updated Line Loss Study 48
7.4.2 Elenchus Opinion 49
7.5 Decarbonization Deferral Account 49
7.5.1 NSP Proposed Approach 49
7.5.2 Elenchus Opinion 49
7.6 Rate Riders 50
7.6.1 Current Rate Rider Methodology 50
7.6.2 NSP Proposed Approach 50
7.6.3 Elenchus Opinion 51
7.7 Alignment of Bundled and Unbundled Services 51
7.7.1 Changes to Align Bundled and Unbundled Services 51
7.7.2 Elenchus Opinion 51
8 Conclusions 53

Attachment A: Curriculum Vitae of John Todd and Andrew Blair

EXECUTIVE SUMMARY

Nova Scotia Power Inc. ("NS Power") retained Elenchus Research Associates ("Elenchus") in December 2023 to assist the company during its cost of service study ("COSS") review process. The goal of this process was to refine NS Power's existing methodology in light of developments since the 2013 COSS that are relevant to NS Power's COSS methodology. Elenchus participated as an advisor throughout the stakeholder process including the 15 sessions held from January 18, 2024 to December 9, 2024. Elenchus' role was to provide to NS Power and the stakeholders contextual information, when asked, including commentary on the generally accepted principles and practices that underpin the cost of service methodologies that are approved by regulators across Canada.[1]

This report provides in section 1 a succinct overview of both the generally accepted ratemaking principles and the most relevant principles for allocating costs to customer classes in the COSS methodologies of other Canadian electric utilities.

The specific purpose of NS Power's COSS review process was to refine its methodology in light of the significant developments in the electricity industry and NS Power's operations since the existing COSS was adopted and those anticipated in the coming years. These developments include the greater integration of wind and other renewables, the addition of a greater amount of gas-fired generation, the phasing-out of coal-fired generation, the use of grid-scale battery storage, the increased reliance on purchased power agreements, and the integration of bundled and unbundled services. Elenchus notes that these developments have not changed the fundamental principles and practices of cost allocation. What has changed is the nature of the technologies relied on by electric utilities, including NS Power, to generate, transmit, and distribute power to their customers while fulfilling related customer service functions.

[1] Elenchus has been engaged in matter that focus on the principles and practices of the provincial electricity regulatory authorities in all Canadian jurisdictions. Elenchus clients include organizations that represent customer groups, utilities and the several provincial regulators. The curriculum vitae of the Elenchus team are attached to this report. See attachment A.

It is Elenchus' opinion that all proposed changes to NS Power's COSS are consistent with generally accepted ratemaking principles and practice. The changes are best viewed as refinements that are needed to ensure that NS Power's costs are recovered in the future from its customer classes in a manner that equitably assigns costs to customer classes to reflect the costs that are caused by each class.

In Elenchus' opinion, the aforementioned developments in the industry and NS Power's operations justify treating its embedded generation assets and other supply options as an integrated and flexible supply portfolio. Hence, the proposal to aggregate generation costs as a common supply resource and classify those costs using the system load factor is appropriate. Furthermore, this proposal will result in better alignment of NS Power COSS with the methodologies generally approved in other Canadian jurisdictions.

Other refinements to the treatment of generation cost relate to specific issues that have arisen as a result of the evolution of NS Power's supply portfolio. In particular, the unique characteristics of radial transmission justifies the functionalization of the costs of those wire assets as generation-related rather than transmission-related.

Turning to the transmission function, it was noted that NS Power's current classification is not consistent with standard practice across Canada which is to classify these costs as 100% demand. Changing the classification of theses costs to 100% demand reflects not only standard practice, but also the operational reality that the cost driver for transmission costs is the peak demand on transmission facilities and better aligns bundled and unbundled rates.

An additional issue related to both the generation and transmission functions, as well as the distribution function, is that storage can be an economic alternative for generation, transmission, and distribution assets. As storage assets increase as a share of NS Power's total rate base and operating costs, it is appropriate to implement the proposed refinement of defining storage as sub-functions for each higher-level function.

NS Power is also proposing to review projects within general plant to assess whether they can be more precisely classified and allocated than they are now by relying on an overall composite allocator. This refinement reflects ratemaking best practices. Overhead-type costs that are included in general plant are often the most difficult costs to assign cost

responsibility because they typically support multiple functions and aren't driven by customer characteristics. A review of the functionalization of projects within general plant will enable the assignment of a larger proportion of support costs to specific functions.

One very specific issue that has been addressed in this process is the ability of PHP to take service above-the-line or below-the-line at this time. This reality makes it necessary to align the costing approaches for both services. PHP is currently a below-the-line customer, but NS Power has refined the COSS to facilitate scenarios that allocate costs to PHP as a separate rate class. NS Power has proposed COSS refinements that will facilitate the alignment of this prospective rate class with NS Power's other rate classes, ensuring fairness among NS Power's customer classes. The differences in COSS results arise from the distinct load characteristics of PHP.

A further proposed refinement stems from NS Power's analysis of the current system and customer benefits of DSM. This analysis demonstrates that it is appropriate to base the weighting of the riders fully on the customer class receiving the benefit.

A further specific refinement relates to the new line loss study that was conducted by an independent consultant, BBA. It provides a detailed examination of the allocation of line losses among rate classes. Line loss studies are typically performed infrequently with the attribution to rate classes or voltage levels being fixed for a number of cost of service cycles. In Elenchus' view, this new study provides an appropriate basis for allocating line losses to rate classes for the purposes of developing losses-adjusted demand and energy allocators.

Based on the reasoning set out above, Elenchus considers the refinements that NS Power is advancing as a result of its COSS review process to result in a revised COSS that better reflects NS Power's current and anticipated operational environment. In the view of Elenchus, the refinements result in an updated COSS methodology that is consistent with generally accepted cost allocation principles and is better aligned with cost drivers that reflect the evolution of the industry and NS Power's current and prospective operational realities. The revisions result in a COSS methodology that more accurately reflects causal costs by rate class as a basis for recovering the utility's total costs from its customers in an equitable manner.

1 INTRODUCTION

1.1 OVERVIEW

Nova Scotia Power Inc. ("NS Power") retained Elenchus Research Associates ("Elenchus") in December 2023 to assist the company during its COSS review process. The goal of this process was to refine NS Power's existing methodology in light of developments that have impacted NS Power's system since the 2013 COSS. Relevant considerations for the update that were identified at the outset included consideration of the greater integration of wind and other renewables, the addition of gas fired generation, the phasing-out of coal fired generation, the use of grid-scale battery storage, the increased reliance on purchased power agreements, and the integration of bundled and unbundled services, among other issues. NS Power anticipated that all cost allocation methodologies would be reviewed for their continued relevance and application. This review process unfolded throughout 2024 and into 2025. Elenchus participated as an advisor throughout the stakeholder process that commenced with Elenchus circulating to all parties a draft issues list that was reviewed at the initial Stakeholder Session held on February 22, 2024. Further stakeholder sessions were held throughout 2024 as the process evolved in response to the extensive and productive engagement of the stakeholders.

This report has been prepared by Elenchus at the request of NS Power to provide the views of Elenchus on the proposed updates to the COSS from the perspective of the consistency of the proposals with generally accepted regulatory principles and practices, taking into account recent industry developments including those noted above.

This report is divided into seven additional sections. Section 2 provides a succinct overview of the stakeholder process that NS Power undertook to provide detailed explanations of the structure and rationale that was the basis of its current COSS and to explain its views on possible and proposed revisions to the model. The sessions included significant opportunity for all stakeholders to comment on NS Power's COSS, the changes it was considering and alternate approaches that stakeholders wished to

consider or advance. Discussions were supported by COSS model runs to demonstrate the expected impact of the changes being discussed.

Section 3 provides an overview of NS Power's proposed COSS methodology.

Sections 4 through 6 discuss in more detail the specific issues that were addressed during the process, divided into issues related to generation (section 4), transmission (section 5) and distribution (section 6). Each of these sections is further divided into subsections that address under separate headings each of the three standard steps involved in the cost-of-service methodologies normally used by electric utilities: functionalization, classification and allocation. In each subsection, the report sets out NS Power's current approach, NSP's proposed approach and the rationale for that approach, and Elenchus' comments on the merits of the proposed approach and alternate approaches that were raised by at least one participant.

Section 7 provides overview discussions of the following seven additional matters that were addressed during the stakeholder process:

- Retail
- General plant
- Rate classifications
- Line losses
- Decarbonization Deferral Account
- Rate riders
- Alignment of bundled and unbundled services.

Section 8 summarizes the conclusions of Elenchus with respect to the matters raised though the stakeholder process.

1.2 THEORY OF COST ALLOCATION

In the electricity industry, electricity is generated, primarily in large power plants, then transmitted over high voltage transmission lines, after which it is transformed to lower voltages and distributed to smaller customers. Larger industrial customers may take delivery of power directly from the transmission system voltage. Local distributors may also take power from transmission and/or distribution systems and deliver the power to consumers within their service territory.

Most of the utility's assets for generating, transmitting and distributing electricity are common assets, shared by the customer classes served by the utility.

In order to determine prices to be charged to customers for the use of the common assets based on a fair and acceptable methodology, a cost allocation study is traditionally used. A cost allocation study methodology uses commonly accepted criteria to apportion the shared assets and expenses amongst customer classes served by the utility and is a necessary step in establishing prices to be charged to customers based on the assets they use and operating costs incurred in order to serve them. Each class is allocated costs on the basis of the cost causality principle.

Prices charged to customers that are based on asset utilization are considered to be cost-based and this is one of the main criteria used in a cost allocation study methodology.[2] Other criteria that are sometimes used in establishing a cost allocation study methodology are:

- Benefit derived from asset utilization;
- Consistency with government policy, e.g. conservation;
- Matching of the timing of recovery with the timing of the benefits;
- Simplicity; and
- Acceptability.

[2] See National Association of Regulatory Utility Commissioners (January 1992) Electric Utility Cost Allocation Manual, for an detailed discussion of the generally accepted foundational principles and methods of cost allocation.

More than one criterion may also be used in developing an acceptable cost allocation study methodology. For example, a cost allocation study methodology could be developed with cost causality as the main criterion, but also simplicity and acceptability could be criteria that would be considered in developing the methodology.

1.3 GENERALLY ACCEPTED UTILITY RATEMAKING PRINCIPLES

It is generally accepted by regulators and regulated utilities that any utility's cost allocation study methodology and approach to rate design should be based on a set of clearly enunciated and generally accepted principles. These principles then guide the work that is undertaken to allocate assets and expenses to customer groups appropriately and establish rates that recover those costs from customers in a manner that is consistent with the principles.

The most commonly used reference for defining the objectives in utilities' rate setting process is the seminal work of James Bonbright.[3] Chapter 16 of the Second Edition sets out ten "attributes of a sound rate structure":

Revenue-related Attributes:

1. *Effectiveness in yielding the utility's total revenue requirement, under the fair return standard, without socially undesirable expansion of rate base or socially undesirable level of product quality or safety.*
2. *Revenue stability and predictability with a minimum of unexpected changes seriously adverse to utility companies.*
3. *Stability and predictability of the rates themselves, with a minimum of unexpected changes seriously adverse to the ratepayers, and with a sense of historical continuity.*

Cost-related Attributes:

4. *Static efficiency of the use of rate classes and rate blocks in discouraging wasteful use of the service, while promoting all justified types and amounts of use.*
5. *Reflections of all of the present and future private and social costs and benefits occasioned by the service's provision.*

[3] *The Principles of Public Utility Rates*, James C. Bonbright, Albert L. Danielsen, David R. Kamerschen (Second Edition, 1988) Public Utilities Reports, pages 383-4.

6. *Fairness of the specific rates in the apportionment of total cost of service among the different ratepayers, so as to avoid arbitrariness and capriciousness, and to attain equity.*
7. *Avoidance of undue discrimination in rate relationships.*
8. *Dynamic efficiency in promoting innovation and responding economically to changing demand and supply patterns.*

Practical-related Attributes

9. *The related, practical attributes of simplicity, certainty, convenience of payment, economy in collection, understandability, public acceptability, and feasibility of application.*
10. *Freedom from controversies as to proper interpretation.*

It is inevitable that in applying these principles, conflicts arise in trying to apply all of the principles simultaneously. An allocation that is more equitable may well compromise economic efficiency or simplicity. Determining the optimal trade-offs between the principles in developing rates therefore requires judgment. The values and judgments of all stakeholders and experts merit consideration when a regulator determines the methodology to be used by the utilities it regulates. Most important, disagreement is inherent in the judgments that are applied to cost allocation studies both because of conflicting interests and because of the inherent lack of clarity in exactly how a utility's costs are caused.

Elenchus seeks to be as transparent as possible in explaining the rationale for its recommendations so that all participants are able to clearly identify and explain any differences of opinion to the Board.

1.3.1 Revenue Related

Meeting revenue requirement implies that customer rates should be set so as to yield sufficient revenues for the utility to recover its approved costs. The recoverable costs that make up the company's revenue requirement include all operating, maintenance and administration expenses, including amortization, as well as the cost of capital. Operating costs include not only operational staff and equipment, but also fuel and PPA costs. The cost of capital includes both the interest on outstanding debt and a return on equity (or net income) that enables the utility to be financially sound.

Stability and predictability are criteria that deal with the need to use cost allocation and rate design approaches that produce stable results over time and predictable changes as a result of changing circumstances. The purpose of these criteria is to avoid as much as possible approaches that produce sudden and significant changes in cost allocation and rate design as a result of changing circumstances. This is not intended as an impediment to appropriate changes, but rather a recognition that significant changes in the level of charges can be difficult for consumers to absorb in their daily lives. Hence, when circumstances justify changes that may have a significant impact on customer bills, it may be desirable to phase in the changes in a manner that mitigates bill impacts without unduly compromising the other objectives of rate making.

1.3.2 Cost Related

Fairness and equity are understood to mean that the utility's assets and expenses have been apportioned to the customer classes in a manner that has cost causality as the main criterion. The methodologies used to apportion costs follow criteria that can be measured in a fair way and can be understood and accepted by stakeholders. Most of the utility's assets and expenses are shared by the utility's customers and cost causality parameters are developed to assign the assets and expenses to customer classes.

Economic efficiency means that the utility's assets and expenses are being utilized effectively (operational efficiency) and, to the extent practical, the rates charged to customers provide reasonable price signals that allow the utility to develop the power system in a manner that is efficient through time (dynamic efficiency).

Conservation of resources is a further dimension of economic efficiency in that the design of rates ideally should result in price signals that encourage consumers to use power in a manner that maintains a reasonable balance between cost of supplying power to consumers and the value of that power to consumers.

1.3.3 PRACTICAL RELATED

Simplicity and administrative ease are criteria that address the need to use cost allocation and rate design methods that are understandable by stakeholders and customers and are implementable by the utility given its available capabilities and resources.

1.4 THE MOST RELEVANT RATEMAKING PRINCIPLES FOR COST ALLOCATION

Cost allocation is one of the three steps commonly used for ratemaking: (i) determination of the total revenue requirement, (ii) allocation of the total revenue requirement to the rate classes and (iii) the determination of an acceptable rate design. All three steps are required to establish fixed and variable rates that are consistent with generally accepted ratemaking principles.

An appropriate allocation of costs to the customer classes provides information that is necessary in order to design rates that are consistent with the Bonbright Principles listed above not only in terms of the costs recovered from each customer class but also in terms of the fixed/variable split and other aspects of rate design.

Allocating costs using a methodology that reflects the principle of cost causality is the basis generally used to develop a rate design that achieves fairness and avoids undue discrimination. A credible cost allocation methodology is also important to achieving a rate design across customer classes that is publicly acceptable and reasonably free from controversy. To a lesser extent, a customer cost allocation study that embeds the principle of cost causality provides guidance for establishing rates that fully recover costs in a manner that is reasonably consistent with the efficiency principles.[4]

[4] It is generally accepted by economists that rates that are consistent with marginal costs would be more efficient; however, that approach to rate making is rarely used because rates based on marginal costs are unlikely to recover the utility's full revenue requirement and may not result in rates that are deemed to be equitable.

2 OVERVIEW OF STAKEHOLDER PROCESS

From January to December 2024, NS Power held fifteen meetings with stakeholders to discuss COSS matters. These meetings are summarized below.

- Eight stakeholder sessions
- Two mini sessions focused on specific topics
- A modeling review session
- A pre-resolution position session
- A two day in-person resolution session
- A post-resolution stakeholder session.

Table 1 – Stakeholder Session Summary

Date	Session	Length
18-Jan-24	Initial COSS Stakeholder Engagement Session	2 Hours
22-Feb-24	2nd COSS Stakeholder Session	Full Day
13-Mar-24	3rd COSS Stakeholder Session	Half-Day
10-Apr-24	4th COSS Stakeholder Session	Half-Day
29-Apr-24	5th COSS Stakeholder Session	Half-Day
16-May-24	6th COSS Stakeholder Session	Half-Day
27-May-24	COSS Mini-Session Minimum System Method	1 Hour
03-Jun-24	7th COSS Stakeholder Session	Full Day
17-Jun-24	8th COSS Stakeholder Session	Half-Day
16-Jul-24	COSS Modeling Review	Full Day
03-Oct-24	COSS MEU Mini-Session	2 Hours
16-Oct-24	COSS Position Session	Full Day
04-Nov-24	Resolution Session #1	Full Day
05-Nov-24	Resolution Session #2	Full Day
09-Dec-24	Stakeholder Session	Half Day

The sessions provided sufficient time for NS Power and stakeholders to discuss cost of service methodologies in detail across various areas of the cost of service study. Stakeholders were provided opportunities to request information and data, raise concerns

with the current methodology, and present alternative methodologies. In addition to the stakeholder sessions, NS Power had discussions with certain stakeholders to discuss discrete issues.

Over the course of the consultation, NS Power and Elenchus responded to 152 data requests and provided 31 models scenarios to assess the impacts of alternate methodologies.

3 SUMMARY OF NS POWER PROPOSED METHODOLOGY

The following table summarises the methodologies for which NS Power proposes to maintain the status quo and the methodologies NS Power is proposing to change.

Table 2 – Summary of NS Power Proposed Methodology

	Status Quo	Change
Generation	• Allocation except for treatment of purchased power	• No initial classification to energy for environmental and fuel conversion reasons • Use system load factor[5] for classification of all generation, including purchased power • Refunctionalize radial-to-generation from Transmission • Create new storage sub-function • Allocate non-fuel, energy related costs of all purchased power monthly
Transmission	• Bulk Power substations refunctionalized to distribution • Allocation	• Refunctionalize radial-to-generation to Generation • Classify all Transmission as 100% Demand • Create new storage sub-function • No distinction between EHV and HV
Distribution	• Sub-functions • Classification • Allocation	• Create new storage sub-function
Other	• Retail classification & allocation	• General Plant review • Cost allocation applicable to PHP above-the-line[6]

[5] The system load factor is the ratio of the average load (kWhs) on the system to the peak load. The load factor can be defined for the system as a whole, or by customer class or by customer.

[6] NS Power is not proposing to move PHP to an above-to-line rate class in this application but has refined the COSS to facilitate scenarios that allocate costs to PHP if it is moved above the line using a methodology that is consistent with NSP's other interruptible Large Industrial customers and other rate classes.

		• DSM rate rider – all DSM costs assigned directly. No system benefit allocation. • DDA methodology • New line losses

4 GENERATION

4.1 FUNCTIONALIZATION

4.1.1 RATE BASE, DEPRECIATION, AND OM&A

4.1.1.1 NSP CURRENT APPROACH

NS Power sub-functionalizes its rate base, depreciation, and OM&A by type of generation. Sub-functionalizing rate base, depreciation, and OM&A by type of generation allows those accounts to be classified by different methodologies, as NS Power does under its current methodology.

Table 3 – Generation Sub-Functions

Rate Base / Depreciation	OM&A
Steam Plant	Thermal
Hydro Plant	Hydro
Wind Plant	Wind
LM6000	Biomass
Gas Turbine Plant	LM6000
	Combustion Turbine

4.1.1.2 NSP Proposed Approach

NS Power is proposing to classify all generation by the same methodology. This is further discussed in section 4.2.1.2. This proposed change in methodology will eliminate the need to sub-functionalize rate base and OM&A by type of generation. NS Power continues to track costs separately by generation type to maintain separate generation sub-functions within the COSS model.

4.1.1.3 Elenchus Opinion

Elenchus agrees it is appropriate to continue to maintain the current sub-functionalization of rate base and OM&A by type of generation. The primary purpose of sub-functionalizing accounts is to separate costs within a function that have different cost drivers so the appropriate classifications and allocations can be applied. Despite the proposed change to classify these costs with the same classification factor, as Elenchus discusses further in section 4.2.1.3, maintaining separate sub-functions by type of generation provides more clarity and transparency within the cost of service study model than including a single generation function.

4.1.2 Fuel and Purchases

4.1.2.1 NSP Current Approach

Fuel and purchases are sub-functionalized by type of generation or source of energy.

- Fuel Costs
- Imports
- Purchased Power – Biomass
- Maritime Link
- Purchased Power Wind - ERIS
- Purchased Power Wind - NRIS[7]

[7] Wind projects are categorized as either Network Resource Interconnection Service (NRIS) or Energy Resource Interconnection Service (ERIS). NRIS refers to a firm transmission interconnection request with the potential requirement for transmission reinforcement upon completion of the System Impact Study (SIS). ERIS refers to an interconnection request for firm service only to the point where transmission reinforcement would be required.

- Purchased Power other than Biomass and Wind
- Less Export Revenues

4.1.2.2 NSP Proposed Approach

NS Power is proposing to maintain the same fuel and purchases sub-functions.

4.1.2.3 Elenchus Opinion

NS Power's fuel and purchases are sufficiently detailed for the purposes of classifying and allocating those costs so Elenchus agrees that no changes are necessary.

4.1.3 Radial-to-Generation

4.1.3.1 NSP Current Approach

Radial-to-generation is the portion of transmission lines that connect generation units to NS Power's transmission system. Currently, this portion of costs is functionalized fully as transmission and is not included within the generation function.

4.1.3.2 NSP Proposed Approach

NS Power is proposing to re-functionalize the portion of transmission lines that connect generators to NS Power's broader transmission system from the Transmission function to the Generation function. These costs are incurred to service the Generation function and can be considered an extension of the costs that are incurred to generate electricity for NS Power's customers. Therefore, it is appropriate for these transmission costs to be functionalized as Generation so they can be classified and allocated with like generation costs.

4.1.3.3 Elenchus Opinion

Refunctionalizing the portion of transmission costs that serve generation facilities, radial-to-generation, from the Transmission function to the Generation function appropriately recognizes that these costs are incurred to support generation facilities. The costs are not related to NS Power's broader transmission network that may be used for wheeling power

or point to point service so this proposed change better aligns NS Power's transmission costs within its cost of service study with the transmission revenue requirement that is used for the purpose of determining Open Access Transmission Tariff ("OATT") charges. OATTs are transmission tariff schedules that apply to unbundled transmission service in the United States and most Canadian jurisdictions. Elenchus notes that this practice is common in vertically-integrated utilities across Canada and in deregulated markets these transmission costs are incurred by generators and not transmission load customers.

4.1.4 STORAGE

4.1.4.1 NSP CURRENT APPROACH

NS Power does not currently include a Storage sub-function within the Generation function.

4.1.4.2 NSP PROPOSED APPROACH

NS Power is proposing to create a Storage sub-function within the Generation function for any storage that is deemed to serve a generation purpose. NS Power has a grid-scale storage facility that is currently under development. This facility had been included in the Transmission function but will provide primarily a generation function so NS Power is proposing to refunctionalize the project to the new generation storage sub-function. As it is currently under development and not in use, the costs associated with the project are limited to construction work in progress ("CWIP") assets and there is currently no depreciation or OM&A associated with the facility.

4.1.4.3 ELENCHUS OPINION

Elenchus supports creating a separate generation storage sub-function for the costs associated with this project and future generation storage projects.

4.2 CLASSIFICATION

4.2.1 RATE BASE, DEPRECIATION, AND OM&A

4.2.1.1 NSP CURRENT APPROACH

There are two steps to the classification of Generation rate base. First, there is an initial classification of rate base associated with environmental and fuel conversion plant 100% to energy. This initial classification is applicable to Steam plant and Hydro plant.

The remaining plant is classified by either the system load factor, the effective load carrying capability of wind, or 100% to demand.

Table 4 – Generation Classifications

Generation Rate Base	Classification
Steam Plant	System Load Factor
Hydro Plant	System Load Factor
Wind Plant	Effective Load Carrying Capability[8]
LM6000 Plant	System Load Factor
Gas Turbine Plant	100% Demand

Generation OM&A has an initial classification of 16% to energy, representing the portion of OM&A that is considered variable. Remaining generation OM&A, except "Other CT" OM&A, is classified between energy and demand based on the weighted average classification of rate base. Other CT OM&A is classified 100% as demand, consistent with the classification of Gas Turbine net plant.

4.2.1.2 NSP PROPOSED APPROACH

NS Power is proposing to replace the classification of generation rate base and OM&A separately by generation type with an overall classification by the system load factor. As

[8] The effective load carrying capability (ELCC) is a quantification of the capacity that can be attributed to a supply resource such as wind or solar that is intermittent and cannot be relied on to provide its rated capacity during periods of peak demand.

part of its proposal, NS Power will remove the initial classification of environmental and fuel conversion rate base to 100% energy, so all rate base including environmental and fuel conversion rate base will be classified by the system load factor.

Replacing discrete classification factors by type of generation with the system load factor classification factor for all types of generation takes a holistic approach to the classification and allocation of generation costs. NS Power must plan its generation assets to meet its customers' annual energy requirements and meet peak demand requirements in all hours. The current methodology classifies and ultimately allocates costs to rate classes based on NS Power's investment decisions to meet those customer needs. Generation costs are caused by the load profiles of its customers so it is appropriate to use a classification methodology that depends on the characteristics of its customers. This methodology is consistent with the methodology used by most jurisdictions across Canada. Utilities in Canada either use some form of the system load factor approach to classify generation assets and generation OM&A or the classification factors are directed by the regulator. The system load factor is used by SaskPower, Manitoba Hydro, Hydro Quebec, NB Power, NS Power, and Newfoundland Power. BC Hydro's classification is based on a 2007 BCUC order which set demand at the share of costs deemed to develop water pressure. Maritime Electric's classification is based on judgement for three sources of energy: imports from NB Power, combustion generation, and wind. Generation costs in Alberta and Ontario are based on a market so no classification methodology is applied.

NS Power designs and operates its generation assets to minimize the overall costs that must be recovered from its customers, while meeting customer needs in each hour and meeting environmental and other regulatory requirements. As NS Power decarbonizes its system, it is retiring assets that provided both energy and capacity values, such as coal[9] and replacing those assets with wind that provides mostly energy value and combustion turbines that provide capacity value. Under the current methodology, wind

[9] NS Power's decarbonization initiatives may also include convert coal units to other fuel sources and modifying its dispatch practices so that some facilities that were previously used as base load units will be used differently to meet demand needs or when renewables not available

would be primarily classified to energy and combustion turbines would be classified fully to demand, causing materially different rate impacts to different classes depending on when investments in those assets take place.

4.2.1.3 ELENCHUS OPINION

The system load factor method is a simple and pragmatic approach to classifying costs that are functionalized as generation costs as energy- and demand-related in a manner that ignores the cost difference across NS Power's various supply resources reflecting factors such as vintage and current operational considerations. It instead classifies and allocates the total fixed costs of the supply resources based on the overall requirement for capacity and energy as evidenced by class-specific energy and capacity requirements.

Elenchus notes that even if a "perfect" granular allocation of the actual generation costs is derived, the end results will not be free of conceptual concerns about the freedom from controversy of the cost allocation method. There could be significant impacts on the sharing of costs among classes when new facilities are brought into service. For example, a new peaking facility could result in a significant increase in capacity costs, or a new wind facility could result in a significant increase in energy costs. It is arguable that an equitable cost allocation methodology should not be sensitive in the short-term to the phasing in of new facilities and long-term maintenance projects (e.g., refurbishment of major generating stations). Facilities that were intended as peaking facilities can end up being operated as baseload facilities due to unexpected economic and operating considerations, and the capacity value of wind can change over time as more wind investments are made.

Given these complications with applying a more granular approach to classifying the costs that are functionalized as generation, it follows that the choice between the non-granular system load factor and a granular method that applies different classifications to different sources of generation will require judgment with respect to which approach, on balance, is more consistent with the principle of cost causality and producing a just and reasonable allocation of costs. It is the end result of the methodology in terms of establishing just and

reasonable rates that ultimately determines whether the methodology is appropriate for inclusion in the overall rate setting process.

The system load factor approach recognizes that the cost allocation process deals with a very diverse mix of assets that have resulted from NS Power's capital investment decisions over many decades. Consequently, the embedded cost of its generation assets that make similar contributions to its supply resources can differ dramatically based on the vintage and the method of financing the individual resources. Once capital is invested, it becomes a sunk cost, and the resulting embedded costs are allocated to customer classes based on the principle of cost causality. The embedded costs are determined by historic decisions and the prevailing circumstances at the time the decisions were made, not their current use.

4.2.2 Fuel and Purchases

4.2.2.1 NSP Current Approach

Fuel and purchased power are classified as either energy or by the same method that rate base is allocated.

Table 5 – Generation Allocations

Fuel & Purchases	Classification
Fuel	Energy
Imports	Energy
Maritime Link	System Load Factor
Purchased Power – Biomass Fuel	Energy
Purchased Power – Biomass Non-Fuel	Weighted Average Generation Rate Base
Wind – ERIS	Effective Load Carrying Capability
Wind – NRIS	Effective Load Carrying Capability
Export Revenues (cost offset)	Energy

4.2.2.2 NSP Proposed Approach

NS Power is proposing to maintain the classification of fuel, imports, and export revenues to energy. Purchases are proposed to be classified using the system load factor. This methodology aligns with the proposed approach for generation rate base and OM&A.

4.2.2.3 Elenchus Opinion

Classifying fuel, imports, and export revenues to energy is appropriate as those costs are incurred directly to provide energy to customers. This is consistent with common practice and ratemaking principles. Classifying purchases by the system load factor is consistent with NS Power's proposal to classify the total cost of supply resources based on its customers' overall requirement for capacity and energy. It is also consistent with NS Power's practice of applying the same methodology to purchases as it does to its own generation.

4.2.3 Radial-to-Generation

4.2.3.1 NSP Current Approach

As explained in section 4.1.3.1, NS Power's radial-to-generation costs are currently included within its general transmission functions. The EHV and HV sub-functions were classified by the system load factor so radial-to-generation costs were classified on the same basis.

4.2.3.2 NSP Proposed Approach

The new radial-to-generation subfunction NS Power is proposing to create within the overall Generation function will be classified by the system load factor.

4.2.3.3 Elenchus Opinion

Radial-to-generation assets support generation so it is appropriate to classify these costs on the same system load factor basis that is proposed to be applied to all generation.

4.2.4 STORAGE

4.2.4.1 NSP CURRENT APPROACH

NS Power's current methodology does not include a generation storage sub-function hence, there are no generation storage assets in NS Power's COSS.

4.2.4.2 NSP PROPOSED APPROACH

NS Power is proposing to classify Storage, functionalized to generation, in the same manner as other generation assets, using the System Load Factor.

4.2.4.3 ELENCHUS OPINION

Following the overall approach to classify all generation resources based on the overall requirement for capacity and energy assets, the system load factor is the appropriate classification for storage functionalized as generation including the grid-scale storage project that is currently being developed.

4.3 ALLOCATION

4.3.1 RATE BASE, DEPRECIATION, AND OM&A

4.3.1.1 NSP CURRENT APPROACH

Demand-classified generation rate base, depreciation, and OM&A is allocated to rate classes based on the losses-adjusted coincident peak in the three highest demand months of December, January, and February ("3CP").

Energy-classified generation rate base, depreciation, and OM&A is allocated to rate classes based on the losses-adjusted annual energy consumed by each rate class.

4.3.1.2 NSP PROPOSED APPROACH

NS Power is not proposing to change the method to allocate rate base, depreciation, or OM&A to rate classes.

4.3.1.3 ELENCHUS OPINION

The allocation of demand-classified costs using the 3CP method is consistent with the methodologies that are generally used in other jurisdictions in Canada.[10]

4.3.2 FUEL AND PURCHASES

4.3.2.1 NSP CURRENT APPROACH

Demand-classified purchases are allocated to rate classes based on each class's share of 3CP.

Fuel and imports, all of which are classified to energy, are allocated to rate classes based on each class's share of monthly energy consumption. For the purposes of allocating fuel and imports, costs are determined on a monthly basis and those costs are allocated to rate classes based on consumption in each month. Unlike the costs associated with rate base, depreciation, and OM&A, the cost of fuel and imports vary throughout the year. This method more accurately allocates the cost of fuel and imports such that classes that consume relatively more in high-cost months pay more on a per kWh basis than classes that use relatively more in lower-cost months. Likewise, monthly export revenues are allocated to rate classes based on consumption in the months the export revenues are realized.

Non-fuel Energy-classified purchases are allocated to classes based on annual energy consumption. This applies to the non-fuel portion of biomass purchases, Maritime Link purchases, wind purchases, and other non-wind and non-biomass purchases.

4.3.2.2 NSP PROPOSED APPROACH

NS Power is proposing to change the method to allocate the non-fuel, energy related costs of purchases to rate classes from an annual to a monthly based allocation method. The allocation of other costs is proposed to remain as is.

---

[10] NB Power uses a 3CP allocator (Matter No. 552, NBP 2.49 & NBP 2.52), BC Hydro uses a 4CP allocator (F2022 FACOS Study), and SaskPower uses a 6CP allocator (2023 Cost of Service Methodology Review)

4.3.2.3 ELENCHUS OPINION

In Elenchus' view, NS Power's monthly allocations of fuel and imports is reasonable. NS Power's proposal to extend this approach to energy-classified purchases is appropriate. The monthly allocations used for fuel and imports, and now purchases, is more detailed than the allocations used in most jurisdictions across Canada.

4.3.3 RADIAL-TO-GENERATION & STORAGE

4.3.3.1 NSP CURRENT APPROACH

NS Power does not currently functionalize or classify any radial-to-generation or storage to Generation so there is no allocation.

4.3.3.2 NSP PROPOSED APPROACH

NS Power is proposing to allocate demand-classified radial-to-generation and storage that is functionalized to generation, using the 3CP allocator, consistent with the allocator used to allocate all other generation rate base, depreciation, and OM&A. Energy-classified radial-to-generation and storage are proposed to be allocated by annual energy consumption.

4.3.3.3 ELENCHUS OPINION

NS Power's proposed allocators for radial-to-generation and storage are reasonable as they are consistent with the allocators used for other generation sub-functions.

5 TRANSMISSION

5.1 FUNCTIONALIZATION

5.1.1 GENERAL TRANSMISSION

5.1.1.1 NSP CURRENT APPROACH

Transmission rate base, depreciation, and OM&A is functionalized between extra high voltage ("EHV") and high voltage ("HV") sub-functions. As discussed further in this section, EHV and HV are classified and allocated in the same way, so this is equivalent to utilising a single Transmission function. Bulk power substations that are tracked as transmission assets are refunctionalized to the Distribution function.

5.1.1.2 NSP PROPOSED APPROACH

NS Power is proposing to maintain the current practice of classifying and allocating EHV and HV transmission by the same factors. The separation of EHV and HV within the cost of service study model is not necessary so NS Power is proposing to eliminate this sub-functionalization step within the model. NS Power is proposing to continue to refunctionalize bulk power substations from the Transmission function to the Distribution function.

5.1.1.3 ELENCHUS OPINION

Elenchus supports NS Power's proposed methodology for functionalizing general Transmission rate base and revenue requirement.

The distinction that NS Power makes between EHV and HV transmission assets is not common among Canadian utilities. NS Power has indicated that HV assets may ultimately be used to service the few customers that take service at the EHV level, such that those customers may not receive the same level of service if the HV facilities were not in place. In Elenchus' view, the evidence does not support excluding cost responsibility of HV assets to EHV customers and the distinction is not warranted for cost allocation purposes.

Therefore, Elenchus supports removing the distinction and merging EHV and HV within the cost of service study model.

5.1.2 RADIAL-TO-GENERATION

5.1.2.1 NSP CURRENT APPROACH

Radial-to-generation is not specifically identified in NS Power's cost of service study so these costs are implicitly included within the EHV and HV sub-functions.

5.1.2.2 NSP PROPOSED APPROACH

NS Power is proposing to refunctionalize radial-to-generation from the Transmission function to the Generation function. This will allow the cost of transmission that specifically supports generation to be properly classified and allocated with generation assets.

5.1.2.3 ELENCHUS OPINION

As discussed in section 4.1.3.3, Elenchus supports refunctionalizing radial-to-generation from the Transmission function to the Generation function.

5.1.3 STORAGE

5.1.3.1 NSP CURRENT APPROACH

NS Power has one battery storage facility under development which is currently in the Transmission function but is deemed to provide primarily a generation function. Transmission storage is not specifically identified in NS Power's cost of service study so these costs, currently only CWIP, are implicitly included within the EHV and HV sub-functions.

5.1.3.2 NSP PROPOSED APPROACH

NS Power is proposing to create a transmission storage sub-function to record rate base, depreciation, and OM&A associated with storage that is deemed to be transmission storage.

5.1.3.3 ELENCHUS OPINION

Creating a transmission storage sub-function is prudent at this time given developments in the electricity sector since NS Power's last cost of service study review. Storage can be used for many purposes and it is foreseeable that NS Power will develop storage that provides a transmission function.

5.2 CLASSIFICATION

5.2.1 GENERAL TRANSMISSION

5.2.1.1 NSP CURRENT APPROACH

EHV and HV transmission rate base, depreciation, and OM&A is classified to demand and energy using the system load factor.

5.2.1.2 NSP PROPOSED APPROACH

NS Power is proposing to change the classification of transmission costs from the system load factor to 100% demand. Classifying transmission costs by the system load factor is not consistent with cost causality principles or with the methodology used by any other jurisdiction in Canada to classify transmission costs.

The transmission system is designed and operated to meet peak system demand requirements. The costs are caused by peak demands and the amount of energy that is delivered through the transmission system does not materially impact the costs that need to be recovered by ratepayers.

This is recognized by all other vertically-integrated utilities in Canada, in which all transmission costs, aside from radial-to-generation and interconnection costs, are classified 100% as demand. This is also consistent with the pro-forma Open Access OATT in which transmission charges are billed based on peak demands.

5.2.1.3 ELENCHUS OPINION

NS Power's current classification methodology of applying the system load factor to the transmission system is unique in Canada. Aside from radial-to-generation and

interconnections, all other transmission is classified as 100% demand in all other jurisdictions in Canada. This is appropriate because the quantum of costs incurred to provide transmission service is caused by forecasted capacity constraints. The full classification of the Transmission function to demand is consistent with cost causality principles so Elenchus agrees with NS Power's proposal to change this classification.

5.2.2 RADIAL-TO-GENERATION

5.2.2.1 NSP CURRENT APPROACH

Radial-to-generation is not specifically identified in the cost of service study so it is included within EHV and HV transmission accounts and classified according to the system load factor.

5.2.2.2 NSP PROPOSED APPROACH

Despite the proposed change to classify transmission rate base, depreciation, and OM&A as 100% demand, NS Power's proposal to refunctionalize radial-to-generation as a Generation sub-function will maintain the classification of this portion of costs using the system load factor.

5.2.2.3 ELENCHUS OPINION

Following the refunctionalization of generation-to-radial from transmission to generation, it is appropriate to classify these costs on the same basis as generation, as discussed in section 4.2.3.3.

5.2.3 STORAGE

5.2.3.1 NSP CURRENT APPROACH

Transmission storage is not specifically identified in the cost of service study so it is included within EHV and HV transmission accounts and classified according to the system load factor.

5.2.3.2 NSP PROPOSED APPROACH

NS Power proposes to classify transmission storage as 100% demand.

5.2.3.3 ELENCHUS OPINION

Storage facilities that are deemed to be transmission storage primarily serve the function of reducing strain on the transmission system at peak times and avoid capacity-related transmission costs so it is appropriate to classify transmission storage as 100% demand.

5.3 ALLOCATION

5.3.1 GENERAL TRANSMISSION

5.3.1.1 NSP CURRENT APPROACH

Demand-classified EHV and HV transmission is allocated to rate classes using the same 3CP allocator used to allocate demand-classified generation costs.

Energy-classified EHV and HV transmission is allocated to rate classes using the same annual energy allocator used to allocate non-fuel energy-classified generation costs.

5.3.1.2 NSP PROPOSED APPROACH

NS Power is proposing to maintain the allocation of demand-classified transmission costs, which will include all EHV and HV costs. There is no longer a classification of transmission costs to energy.

Within the cost of service study model, the allocations of EHV and HV reference separate allocators that have equivalent allocation factors. The revised cost of service study model will have a single sub-function for EHV and HV and the allocators will likewise be combined.

5.3.1.3 ELENCHUS OPINION

Elenchus supports the continued use of the 3CP allocator to allocate demand-classified costs, which is how NS Power proposes to classify all Transmission costs.

5.3.2 RADIAL-TO-GENERATION & STORAGE

5.3.2.1 NSP CURRENT APPROACH

Radial-to-generation and storage costs are embedded within EHV and HV transmission costs so they are implicitly allocated using the same demand and energy allocators used to allocate EHV, HV, and generation costs.

5.3.2.2 NSP PROPOSED APPROACH

Radial-to-generation is refunctionalized away from transmission so no transmission allocator will apply to radial-to-generation. NS Power is proposing to apply the same 3CP demand allocator that is applied to general transmission assets to the transmission storage function.

5.3.2.3 ELENCHUS OPINION

Elenchus agrees that using the same demand allocator for all transmission costs is appropriate so it supports using the 3CP allocator for transmission storage costs.

6 DISTRIBUTION

6.1 FUNCTIONALIZATION

6.1.1 DISTRIBUTION FUNCTIONALIZATION METHODOLOGY

6.1.1.1 NSP CURRENT APPROACH

NS Power has eight categories of distribution sub-functions:

- Substations
- Poles & Fixtures (primary and secondary)
- Overhead & Underground Lines (primary and secondary)
- Transformers
- Services
- Meters

- Street Lighting
- Land, Easements & Survey, and Other

Substations are refunctionalized from the Transmission function to the Distribution function, and the remaining functions are originally recorded within the distribution function.

6.1.1.2 NSP Proposed Approach

NS Power is proposing to maintain the same sub-functions, and add an additional sub-function for storage. Storage assets may serve a distribution function, such as a battery storage system connected at the distribution level that helps avoid capacity-related distribution costs. Therefore, it is appropriate to create a new sub-function to be used when such an investment is made.

6.1.1.3 Elenchus Opinion

NS Power's functionalization of Distribution to sub-functions is reasonable and consistent with the sub-functions used by other vertically-integrated utilities across Canda. This level of sub-functionalization provides a sufficient degree of separation of assets and expenses so the sub-functions can be properly assigned cost drivers and allocated to rate classes based on cost causality.

Despite there being no current facilities under development, creating a distribution storage sub-function is prudent at this time given developments in the electricity sector since NS Power's last cost of service study review. Storage can be used for many purposes and it is foreseeable that NS Power will develop storage that provides a distribution function. Distribution storage could help NS Power avoid costs related to substations, poles & fixtures, and overhead & underground wires so a classification based on a weighted average of the classifications of those sub-functions is appropriate.

6.2 CLASSIFICATION

6.2.1 GENERAL DISTRIBUTION

6.2.1.1 NSP CURRENT APPROACH

Distribution sub-functions are classified by a range of methods. A summary of the classification methodology of each sub-function is summarized below.

Table 6 – Distribution Classifications

Distribution Sub-Function	Classification Methodology
Substations	100% Demand
Poles & Fixtures (primary and secondary)	Minimum System Method
Overhead & Underground Lines (primary and secondary)	Minimum System Method
Transformers	100% Demand
Services	100% Customer
Meters	100% Customer
Street Lighting	Direct Assignment
Land, Easements & Survey, and Other	Weighted average of Substations, Poles, and Wires classifications

Substations and transformers are classified 100% as demand because the distribution system requires sufficient substation and transformer capacity at peak demands, so the costs are caused by capacity constraints.

Services and meters are classified 100% as customer because the costs vary by the number and type of customers connected to the distribution system.

Poles & fixtures and overhead & underground lines are classified by the minimum system methodology. The minimum system methodology considers the cost of a system with minimal demands to approximate the cost of serving each customer if there were no capacity constraints. This portion of total costs is classified as customer-related. The remaining cost is deemed to be the portion of costs incurred to meet peak demands and

is classified as demand-related. The minimum system methodology is discussed further below.

Street lighting costs are applicable only to the Unmetered rate class so they are directly assigned.

Land, easements & survey, and other costs are driven by the costs of other distribution sub-functions so they are classified to demand and customer based on a weighted average of the classifications of substations, poles & fixtures, and overhead & underground wires.

6.2.1.2 NSP Proposed Approach

NS Power is proposing to maintain the current classification methodologies for its distribution sub-functions.

6.2.1.3 Elenchus Opinion

Elenchus agrees that the classifications applied to each sub-function are appropriate. The cost of substations and line transformer costs are driven by demands and peak times so it is appropriate for those costs to be classified as demand. Services and meters vary based on the number of customers served so it is appropriate for those costs to be classified as customer-related.

6.2.2 Minimum System Methodology

6.2.2.1 NSP Current Approach

The minimum system methodology is used in the cost of service study for the classification of poles & fixtures and overhead & underground lines between customer-related and demand-related. The need to classify distribution costs is described in NARUC Electric Utility Cost Allocation Manual:

> When the utility installs distribution plant to provide service to a customer and to meet the individual customer's peak demand requirements, the utility must classify distribution plant data separately into demand- and customer-related costs.

Classifying distribution plant as a demand cost assigns investment of that plant to a customer or group of customers based upon its contribution to some total peak load. The reason is that costs are incurred to serve area load, rather than a specific number of customers.

The theory of the minimum system methodology is that most distribution costs are driven by a combination of building out the system to reach customers and maintaining sufficient capacity to meet peak demands. Some distribution assets, such as substations, services, and meters, have more distinct purposes and cost drivers but other assets, like poles & figures and wires, have purposes and cost drivers that are not as discrete.

The minimum system methodology compares the cost of a hypothetical minimum system to the total cost of the distribution system. The cost of a hypothetical minimum system is estimated by replacing actual asset costs with the costs of assets with minimum specifications.

The cost of the hypothetical minimum system is classified as customer-related and the difference between the minimum system cost and total system cost is classified as demand-related. All costs incremental to the cost of assets with minimum specifications are assumed to be incurred to meet capacity requirements and are therefore considered demand-related.

A common alternative to the minimum system methodology is the zero-intercept methodology. This methodology is conceptually similar to the minimum system study but it relies on cost data to determine the relationship between installed costs and load carrying capacity. A regression analysis provides a formula for the cost of an asset based on the theoretical cost of the asset with zero demand plus the cost per kW times the asset's load carrying capacity.

Another alternative to classify distribution costs is the basic customer method. This methodology classifies only customer-specific costs as customer-related and the remaining costs are classified as demand-related and/or energy-related.

Customer-specific costs typically include meters, service lines, and billing and collecting costs. Some portion of transformers and lines serving individual customers may also be

considered customer-specific in the basic customer method. Remaining distribution costs are classified as demand-related or classified between demand-related and energy-related using a distribution-specific system load factor or alternate methodology. The key distinction in this methodology is that no costs associated with poles & fixtures or overhead & underground lines, or only a smaller portion of those costs, are classified as customer-related.

6.2.2.2 NSP Proposed Approach

NS Power is proposing to maintain the minimum system methodology for the purpose of classifying poles & fixtures and overhead & underground lines. This methodology appropriately considers the two primary cost drivers of poles & fixtures and overhead & underground lines being customers and demand.

6.2.2.3 Elenchus Opinion

The minimum system method is appropriate for classifying poles & fixtures and overhead & underground lines between demand and customer. These costs have two clear cost drivers: the sprawl of the distribution system that NS Power must build to reach each customer and the peak demand the distribution system must support. The number of poles & fixtures and the length of overhead & underground line that must be installed, based on minimum specifications, provide a good representation of the cost of reaching each customer. Incremental costs that NS Power incurs over the minimum system are driven only by the need to meet peak demands so it is appropriate to consider those costs to be demand-related.

The Minimum System methodology is used by SaskPower, Hydro Quebec, and NL Power. Additionally, the judgement-based classifications used by NB Power and by Ontario distributors are based on analyses of minimum system studies.

This methodology appropriately considers the two cost drivers of these distribution assets and remains the most commonly used method to classify distribution costs in Canada. The zero-intercept methodology in conceptually consistent with cost causality principles, but the need to approximate the cost of hypothetical assets that are unable to serve any

load can create counterintuitive and controversial results that are detached from NS Power's actual costs. The basic customer method classifies costs to demand to a degree that is not consistent with cost causality.

For example, consider the investments NS Power would be required to make to serve either a new subdivision requiring new poles and lines or a new apartment building which would require upgrades to existing infrastructure. The basic customer method would result in the same classification of costs, despite the difference in the nature of the costs that are incurred. The cost to serve the new subdivision are caused by the number of new homes but the costs would be classified only by the demand of those customers. Under the minimum system method, the classification of costs to customer-related would appropriately increase based on the number of new poles and length of wire installed for the subdivision, or the classification of demand-related costs would appropriately increase based on the extent that costs are incurred above the minimum system costs. Elenchus is not aware of any utility in Canada that uses this methodology.

The zero-intercept method is not a preferred alternative because, as the NARUC Cost Allocation Manual notes, the results are often counterintuitive. Some studies have shown negative zero-intercepts or negative coefficients, which suggests the cost of a hypothetical asset with zero load is higher than the asset with loads.

The zero-intercept methodology is conceptually similar to the minimum system method as estimated costs without capacity are considered customer-related and the incremental costs to meet capacity requirements are considered demand-related. While the minimum-system method uses actual costs of minimum-sized assets that would be used if there were no capacity constraints, the zero-intercept method assess the cost of a hypothetical asset that is smaller than any actual asset but can provide no capacity value.

The zero-intercept method is used to some extent by a few Canadian utilities, but it is not the sole basis for classifying costs by any utility. NL Power uses the Zero-Intercept method only for classifying transformer costs (which are classified 100% as demand by NS Power) and NB Power's judgemental 50%/50% was determined following a review of zero-intercept and minimum system analyses.

In Elenchus' view the minimum system method is the method most aligned with cost causality principles so it supports NS Power's continued use of this methodology.

6.2.3 STORAGE

6.2.3.1 NSP CURRENT APPROACH

NS Power's current methodology does not include a distribution storage sub-function.

6.2.3.2 NSP PROPOSED APPROACH

NS Power is proposing to classify storage by the weighted average of the classifications of substations, poles & fixtures, and overhead & underground wires. This is the same methodology used to classify land, easements & survey, and other distribution.

6.2.3.3 ELENCHUS OPINION

Distribution storage facilities could avoid the need for investments in other distribution sub-functions. Using a weighted average of substations, poles & fixtures, and overhead & underground wires would appropriately classify distribution storage costs on the same basis those assets as classified.

6.3 ALLOCATION

6.3.1 DISTRIBUTION ALLOCATION METHODOLOGY

6.3.1.1 NSP CURRENT APPROACH

Demand-classified distribution is allocated by annual non-coincident peak. Non-coincident peak is the peak demand of each rate class irrespective of the system peak. The measure of non-coincident peak applied to each demand-classified distribution sub-function differs based on losses applicable to the sub-function and whether the sub-function includes primary or secondary voltage distribution assets.

Customer-classified distribution is allocated by a customer count or weighted customer count. The customer count applied to sub-functions related to shared assets differs based

on whether the sub-function is primary or secondary. Additionally, weightings apply to certain sub-functions.

Table 7 – Distribution Allocation

Distribution Sub-Function/Classification	Allocation Methodology
Substations - Demand	Primary Non-Coincident Peak (at bulk power station)
Poles & Fixtures (primary) - Demand	Primary Non-Coincident Peak (before substation)
Poles & Fixtures (primary) - Customer	Primary Customer Count
Poles & Fixtures (secondary) - Demand	Secondary Non-Coincident Peak
Poles & Fixtures (secondary) - Customer	Secondary Customer Count
Overhead & Underground Lines (primary) - Demand	Primary Non-Coincident Peak (before substation)
Overhead & Underground Lines (primary) - Customer	Primary Customer Count
Overhead & Underground Lines (secondary) - Demand	Secondary Non-Coincident Peak
Overhead & Underground Lines (secondary) - Customer	Secondary Customer Count
Transformers – Demand	Secondary Non-Coincident Peak
Services – Customer	Service-weighted secondary customer count
Meters – Customer	Meter-Weighted Customer Count
Street Lighting – Direct	Direct Allocation
Land, Easements & Survey, and Other – Demand	Weighted-average demand-classification of substations, poles & fixtures, and overhead & underground wire
Land, Easements & Survey, and Other – Customer	Weighted-average customer-classification of substations, poles & fixtures, and overhead & underground wire

Services are weighted based on an assessment of relative service costs for each rate class. Meters are weighted by the relative meter cost for the meters that serve each customer class. The amounts for Street Lighting that are directly classified and are directly assigned to the Unmetered rate class.

6.3.1.2 NSP PROPOSED APPROACH

NS Power is proposing to maintain the allocation methodology for each distribution sub-function.

The distribution storage sub-function will be included with land, easements & survey, and other distribution to be allocated with the same weighted-average allocation used for those sub-functions.

6.3.1.3 ELENCHUS OPINION

Elenchus agrees with the allocators used to allocate Distribution demand and customer-classified costs. The non-coincident peak (i.e., the individual class peaks is the most commonly used method for allocating distribution-classified demand costs because the distribution system is designed to meet customer peaks in any hour, which may not necessarily be aligned with the system peak.

7 OTHER MATTERS

7.1 RETAIL

7.1.1 CURRENT RETAIL METHODOLOGY

Retail costs include expenses like meter reading, customer service, and billing & collection. These costs are classified fully as customer-related.

Table 8 – Retail Allocation

Retail Sub-Function	Allocation Methodology
Meter reading	85% by number of bills & 15% by class revenues
Electric inspections	Specific assignment to Domestic and remaining allocated by meter reading allocations
Customer experience and solutions	Specific identification
Call centre	85% by number of bills & 15% by class revenues
Billing services	85% by number of bills & 15% by class revenues
Electrical Wiring inspections	Customer count, with an adjustment for seasonal customers
Meter data services	Specific identification
Payment services	Customer count, with an adjustment for seasonal customers
Credit services	Specific assignment to Domestic and remaining allocated by revenue among secondary-connected customers

7.1.2 NSP Proposed Approach

NS Power is proposing to maintain the current allocation of retail costs.

7.1.3 Elenchus Opinion

Meter reading, call centre, and billing services costs are allocated by a weighted allocation factor that consider the costs of these sub-functions are largely driven by the number of customers but there are additional costs and complexities associated with larger customers so a portion of the allocation is based on class revenues. The 85%/15% weighting is based on an analysis of the resources used but also required a degree of

judgement.[11] Allocating these costs typically relies on judgement and Elenchus views this approach as reasonable.

Direct allocations are preferred where it is possible to do so Elenchus supports the attribution of Customer Experience and Solutions and Meter Data Services costs based on specific identification.

Electric wiring inspections and payment services are allocated based on customer count with an adjustment to seasonal customers to account for the average number of months service is active. While most customer-related costs are incurred whether the service is active or not, these costs are related to active customers so Elenchus agrees it is reasonable to make this adjustment.

7.2 GENERAL PLANT

7.2.1 CURRENT GENERAL PLANT METHODOLOGY

General plant is largely overhead-type plant that cannot be identified with any particular function, classification, or rate class. For example, administrative buildings are considered general plant.

General plant is classified to each of the Generation, Transmission, Distribution, and Direct Assignment functions by each function's share of plant in service. Functionalized general plant is then classified among demand, energy, and customer according to the weighted average classification of net plant within each function.

Each functional classification of general plant is then allocated to rate classes based on the weighted average that each function's classified costs are allocated to rate classes. This composite allocation is analogous to grossing-up all net plant with an identifiable function by the same percentage to account for general plant.

[11] M05473 Decision, pages 23-27

7.2.2 NSP Proposed Approach

NS Power proposes to review the items within general plant to more precisely allocate net plant that has an identifiable function. Computer hardware and software is an example of an asset that is typically considered general plant. This has been typical in the industry as hardware and software has typically served an administrative function and has historically comprised a relatively low share of revenue requirements.

NS Power is proposing to separate the amount of net plant and depreciation associated with computer software and communications equipment functionalize those costs more directly within the Generation, Transmission, Distribution, and Retail functions.

7.2.3 Elenchus Opinion

General plant provides support to the generation, transmission, and distribution functions and there generally is no clear cost driver for these costs. The overall approach to classifying and allocating general plant in proportion to the functions it supports is reasonable and consistent with the methodologies used in other Canadian jurisdictions.

It is appropriate for NS Power to periodically review the components of general plant to identify assets that have more identifiable functional drivers. The use of assets and quantum of general plant costs change over time so it is necessary to review the components of general plant to ensure the costs are being properly assigned. The proposal to break out computer software and communications equipment will provide a more precise classification and allocation those costs to rate classes and leave a lower amount of general plant to be spread among other functions and classifications.

7.3 Rate Classifications

7.3.1 Rate Classifications

Port Hawkesbury Paper (“PHP”) is currently the only customer within the Extra Large Industrial Active Demand Control (“ELIADC”) rate class. The ELIADC rate class is considered a below-the-line rate class, in which the costs are attributed to the class based on calculations outside of the cost of service study model. In particular, energy costs are

assigned based on the incremental cost of generation instead of an allocation of total costs based on the class's load characteristics relative to the load characteristics of other classes. The costs attributed to PHP are subtracted from the costs that are allocated to NS Power's above-the-line rate classes. NS Power and PHP are working to determine whether a viable above-the-line tariff can be developed for PHP.

7.3.2 NSP Proposed Approach

NS Power has refined the COSS to facilitate scenarios that allocate costs to PHP as a separate rate class PHP's loads and customer characteristics would be included in the derivation of allocators assigned to each rate class and its costs would no longer be subtracted from the costs allocated among above-the-line rate classes.

PHP is a transmission-connected customer so it would not receive any allocation of distribution costs.

7.3.3 Elenchus Opinion

The load volumes and active demand control characteristics of PHP are sufficiently different from other classes that it is appropriate to treat PHP as a separate rate class if they move above-the-line. NS Power's proposed approach to allocate costs to PHP if they move above-the-line would treat them in a consistent manner as other rate classes with differences in cost allocation arising from the specific load characteristics of the class. In Elenchus' view this is a reasonable approach for PHP and NS Power's other rate classes.

7.4 Line Losses

7.4.1 Updated Line Loss Study

NS Power retained BBA to conduct a line loss study to allocate NS Power's demand and energy line losses to rate classes. The study used a range of load data sources, software simulations, GIS, and industry research to estimate NS Power's transmission line losses, substation losses, distribution transformer losses, primary and secondary distribution line losses, and non-technical losses. The relative share of loads at different voltage service

levels by rate class was used to estimate rate class-specific demand and energy loss factors.

7.4.2 ELENCHUS OPINION

The study conducted by BBA is consistent with, or in many cases more detailed, than line loss studies used in other jurisdictions across Canada. In Elenchus' view the results produced by BBA are appropriate to use in NS Power's cost of service study for the purposes of deriving loss-adjusted energy and demand allocators.

7.5 DECARBONIZATION DEFERRAL ACCOUNT

7.5.1 NSP PROPOSED APPROACH

NS Power is required to retire coal-fired assets and associated marine unloading and fuel delivery facilities by 2030. These assets have not yet reached their end of service life so NS Power will not recover the costs associated with these assets or related decommissioning costs by 2030. NS Power received approval of a Decarbonization Deferral Account ("DDA") to transfer the unrecovered costs associated with those assets. NS Power considers the DDA to be a rate stabilization tool. It is proposing to allocate DDA using the same methodology it has used to allocate prior rate stabilization tools, which is to classify costs based on the weighted average of NS Power's rate base and allocate those classified costs by a weighted average of the allocation of rate base.

7.5.2 ELENCHUS OPINION

This weighted average approach effectively treats DDA costs as overhead-type costs in the same manner as general plant. Though the costs are related to the generation function, the need to recover DDA costs is ultimately due by the need to meet legislated requirements for NS Power to decarbonize its generation fleet. A consequence of the legislation is that NS Power's customers are required to pay for assets they are not using. This raises the question of whether those costs should be recovered based on the asset's original function or if they should be spread on a wider basis to all functions.

There isn't a strong cost causation basis to attribute the full cost of the DDA to customers that are consuming electricity, who will already be responsible for the costs of generating resources that are replacing coal generation. There is no causal link between the costs included in the DDA and the service provided to customers. The costs are ultimately caused by the legislation requiring NS Power to decarbonize and represent an external cost pressure that is not incurred to supply electricity to customers. For this reason, it is Elenchus' view that spreading the cost of the DDA more broadly is appropriate. Spreading the cost among all functions in proportion to rate base is a reasonable methodology to achieve this.

7.6 RATE RIDERS

7.6.1 CURRENT RATE RIDER METHODOLOGY

NS Power applies a DSM rate rider to recover the costs of EfficiencyOne. The rate rider is calculated based on the costs of DSM programs applicable to each class and an assessment of NS Power's avoided costs that are enabled by DSM programs. The rate rider is calculated with a 75%/25% weighting, so 75% of each rate class's DSM rate rider is based on the cost of programs undertaken for the rate class and 25% is based on the system benefit of the programs. The 25% weighting considered as system-benefit was set based on judgement.

7.6.2 NSP PROPOSED APPROACH

NS Power is proposing to change the weighting of the DSM allocation so the rate rider is 100% of costs incurred for each rate class and the system benefit will no longer be considered.

7.6.3 Elenchus Opinion

NS Power conducted an analysis that has indicated there is very little system benefit provided by DSM.[12] Based on this analysis, Elenchus agrees it is appropriate to remove the system-benefit weighting for the allocation of the DSM rate rider.

7.7 Alignment of Bundled and Unbundled Services

7.7.1 Changes to Align Bundled and Unbundled Services

NS Power is proposing to revise the calculation of the transmission revenue requirement underpinning the Open Access Transmission Tariff ("OATT") to make it consistent with the transmission revenue requirement used in the cost of service study. The OATT revenue requirement was based on formulaic adjustments which did not necessarily correspond to changes in the cost of service revenue requirement.

Radial-to-generation costs are not included in the OATT revenue requirement so reclassifying this amount from transmission to generation, as proposed in section 5.1.2, will better align the revenue requirements.

OATT rates are set based only on demand so there is a misalignment in the classification and allocation of those costs between the OATT and cost of service study when the system load factor is used to classify costs. NS Power's proposal to classify transmission as 100% will better align OATT rates with the portion of rates related to the transmission revenue requirement in the COSS.

7.7.2 Elenchus Opinion

Bundled and unbundled rates should be aligned such that customers receiving unbundled service should be charged rates that are consistent with the rates underpinning bundled rates. For example, the portion of bundled rates that are attributable to transmission service should be consistent with OATT rates for the same transmission service.

[12] CA-DR-76

NS Power's proposal to revise both of the OATT revenue requirement and cost of service study revenue requirement such that they are aligned will provide a consistent basis to set transmission rates.

The current classification of transmission by the system load factor is a barrier to aligning unbundled and bundled rates. Customers that receive unbundled service tend to be large volume customers that typically have high load factors. Classes with higher load factors receive a higher allocation of costs when the system load factor methodology is used because those classes receive a higher allocation of energy-related costs than demand-related costs. OATT rates are set by dividing the OATT revenue requirement by demands, which is analogous to a classification based on 100% demand. Customers taking unbundled service would pay lower transmission charges, all else being equal, than they would with bundled service. This inappropriately creates an incentive for customers to select unbundled service over bundled service

8 CONCLUSIONS

As stated in the Introduction the goal of this process was to identify appropriate changes to NS Power's COSS in light of developments including the greater integration of wind and other renewables, the addition of a greater amount of gas-fired generation, the phasing-out of coal-fired generation, the use of grid-scale battery storage, the increased reliance on purchased power agreements, and the integration of bundled and unbundled services, among other issues. None of these developments change the fundamental principles and practices of utility ratemaking in general or, more specifically, cost allocation which is the second of the three steps in establishing just and reasonable utility rates. These foundational principles are briefly summarized in section 1 and are fully developed in the cited literature as well as in the record of decisions of the regulators that have approved rates for electric utilities across Canada over the past half century. What has changed is the nature of the technologies relied on by electric utilities, including NS Power to generate, transmit, and distribute power to their customers while fulfilling related customer service functions.

Given the nature of the considerations that are driving COSS changes, it is not surprising that changes to NS Power's COSS are not radical. The methodology is conceptually consistent with past practice. The changes are best viewed as refinements that are needed to ensure that NS Power's costs are recovered from its customer classes in a manner that equitably assigns costs to customer classes to reflect the costs that are caused by each class. As was the case in the past, most of the utility's costs are common costs – that is, the facilities are generally used by all classes of customers. Few costs can be directly assigned to any customer or class of customers. Common costs continue to be attributed to the classes based on the relevant cost drivers such as demand, energy and customer numbers.

This section briefly summarizes the conclusions of the preceding sections and identifies the thematic drivers of the refinements to NS Power's COSS methodology.

NS Power's existing methodology was developed at a time when the diversity of generation facilities was limited and the role of the different generation technologies was easily identified and stable through time. Specific technologies were closely associated

with meeting the system's base, intermediate and peak demands. However, the integration of intermittent renewable generation technologies, the growing reliance on grid-scale storage and power purchase agreements and the unbundling of services to facilitate customer supply options have contributed to making it impractical to meaningfully define the role of individual generation technologies and facilities. NS Power's entire portfolio of generation assets and other supply options (e.g., PPAs and imports) provide an integrated and flexible supply of power. The proposal to aggregate virtually all generation costs and classify them using the system load factor eliminates reliance on the increasingly impractical past practice of trying to determine distinct allocations for different generation technologies.

Other refinements to the treatment of generation cost to relate to specific issues have arisen as a result of the evolution of NS Power's supply portfolio. In particular, it has been realized that the role of radial transmission facilities in the NS Power system justifies treating their costs as generation-related rather than transmission-related.

Turning to the transmission function, it was noted that NS Power's current classification is not consistent with standard practice across Canada which is to classify these costs as 100% demand. This treatment reflects the operational reality that the cost driver for transmission costs is the peak demand on transmission facilities. Costs are not significantly affected by the amount of energy, number of connected customers, or any other cost driver included in the COSS.

An additional issue related to the generation, transmission and distribution functions has arisen as a result of the growing scale of storage which can be an economic alternative to generation, transmission, and distribution investments. As storage assets increase as a share of NS Power's total rate base and operating costs, it is appropriate to define storage as sub-functions that are handled separately in the COSS.

NS Power is also proposing to review projects within general plant to assess whether they can be more precisely classified and allocated than an overall composite allocator. This approach reflects ratemaking best practices. Overhead-type costs that are included in general plant are often the most difficult costs to assign cost responsibility because they typically support multiple functions and aren't driven by customer characteristics. A review

of the functionalization of projects within general plant will better align support costs with the functions they support and reduce the quantum of costs that are allocated on the basis of composite, rather than specific cost drivers.

Another new COSS issue addressed during this review process derives from the current ability of PHP to take service either above-the-line or below-the-line. This unique situation has created the need to maintain costing approaches for both services. PHP is currently a below-the-line customer, but NS Power has refined the COSS to facilitate scenarios that allocate costs to PHP as a separate rate class. The treatment of this new rate class is aligned with that of other rate classes, ensuring fairness among NS Power's customer classes, with differences in results arising from the distinct load characteristics of PHP.

Another distinct matter addressed in the review process results from NS Power's analysis of the system and customer benefits of DSM. This analysis demonstrated that the weightings for the DSM rate rider have changed over time such that it is now more appropriate to base the riders fully on the customer class receiving the benefit.

A further specific refinement relates to the new line loss study that was conducted by an independent consultant, BBA. It provides a detailed examination of the allocation of line losses among rate classes. Line loss studies are typically performed infrequently with the attribution to rate classes or voltage levels being fixed for a number of cost of service cycles. In Elenchus view, this new study provides an appropriate basis for allocating line losses to rate classes for the purposes of developing losses-adjusted demand and energy allocators.

Based on the reasoning set out above, Elenchus considers the refinements that NS Power is advancing as a result of its COSS review process to result in a revised COSS that better reflects NS Power's current and anticipated operational environment. In the view of Elenchus, the refinements result in an updated COSS methodology that is consistent with generally accepted cost allocation principles and is better aligned with cost drivers that reflect the evolution of the industry and NS Power's current and prospective operational realities. The revisions result in a COSS methodology that more accurately reflects causal costs by rate class as a basis for recovering the utility's total costs from its customers in an equitable manner.

Nova Scotia Power Inc.

Power System Line Loss Study

Technical Report

Methodology to Compute Loss Allocation Factors

BBA Document No. / Rev.: 3245004-000000-47-ERA-0000 / R01

August 20, 2025

FINAL

375 Sir-Wilfrid-Laurier Blvd.
Mont-Saint-Hilaire, QC J3H 6C3
T +1 450.464.2111 **F** +1 450.464.0901
BBA.CA All rights reserved. © BBA

Power System Line Loss Study
Technical Report
Methodology to Compute Loss Allocation Factors

2025-08-20
FINAL

Prepared by:
Cilia Fellah, EIT.
OIQ Member No. 6071328

Prepared by:
Jean-Sébastien Lacroix, P.Eng.
OIQ Member No. 139313

Checked by:
Daryn Thompson, P.Eng.
PEO Member No. 90261132

Reviewed by:
Brendon Henderson, P.Eng.
APENS Member No. 10815

BBA Document No. / Rev.: 3245004-000000-47-ERA-0000 / R01

Power System Line Loss Study
Technical Report
Methodology to Compute Loss Allocation Factors

REVISION HISTORY

Revision	Document Status – Revision Description	Date
R00	Final	2025-04-04
R01	Final	2025-08-20

This document has been prepared by BBA for its Client and may be used solely by the Client and shall not be used nor relied upon by any other party or for any other purpose without the express prior written consent of BBA. BBA accepts no responsibility for losses, claims, expenses or damages, if any, suffered by a third party as a result of any decisions made or actions based on this document.

While it is believed that the information contained herein is reliable under the conditions and subject to the limitations set forth in the document, this document is based on information not within the control of BBA, nor has said information been checked by BBA, and BBA, therefore, cannot and does not guarantee its sufficiency and accuracy. The comments in the document reflect BBA's best judgment in light of the information available to it at the time of preparation

Use of this document acknowledges acceptance of the foregoing conditions.

TABLE OF CONTENTS

1. Introduction 1
2. NS Power system overview 1
3. Definition of terms 2
   3.1 Technical Losses 2
   3.2 Non-technical losses 3
   3.3 Load factor 3
   3.4 Loss factor 3
   3.5 Loss Allocation Factor 4
4. Network loss study 4
   4.1 Transmission losses 4
   4.2 Distribution losses 5
   4.3 Secondary losses 7
   4.4 Non-technical losses 9
5. Network loss summary 10
6. Classification of customers 11
7. Methodology 15
   7.1 Energy loss allocation factors 15
   7.2 Coincident demand loss allocation factors 18
   7.3 Non-coincident demand loss allocation factors 18
8. Analysis 20
9. Conclusion 20

LIST OF TABLES

Table 1: Transmission monthly simulation results 4
Table 2: 2023 peak load flow study 5
Table 3: Distribution loss sensitivity 6
Table 4: Results of the feeder level loss factor 6
Table 5: Distribution annual energy loss 7
Table 6: Secondary energy losses and peak load losses 9

Table 7: 2026 annual energy losses per segment 10
Table 8: Level of contribution to network losses per customer class 13
Table 9: Proportional allocation of losses per customer class 14
Table 10: Proportion recalibration 14
Table 11: Loss allocation factor and energy loss results 17
Table 12: Summary of demand loss allocation factors 18
Table 13: Non-coincident demand loss allocation factor 19
Table 14: Comparison of 2023 forecasted results and 2026 results 20

LIST OF FIGURES

Figure 1: Map of NS Power's major facilities 2
Figure 2: Simplified network diagram 12



Power System Line Loss Study
Technical Report
Methodology to Compute Loss Allocation Factors

1. Introduction

Nova Scotia Power Inc. (NS Power) mandated BBA to develop and implement a comprehensive and industry-aligned methodology for conducting line loss studies that are representative of NS Power systems and appropriate for use in regulatory proceedings. This initiative leverages Advanced Metering Infrastructure (AMI), Supervisory Control and Data Acquisition (SCADA) data, and additional asset information collected at feeders throughout the province. A key focus is to incorporate detailed secondary equipment data and other physical system characteristics, enabling a more accurate and updated line loss model and calculations.

The objective is to transition from NS Power's manual and historical-data-based approach to a more efficient, industry-accepted methodology. This new framework aims to streamline distribution line loss studies, making them more sustainable and operationally efficient, while reducing reliance on manual data processing.

This report outlines the methodologies and processes developed, ensuring a standardized approach to energy and demand loss modelling across the transmission, distribution, and secondary networks, including non-technical losses. It aims at computing energy loss allocation factors and demand power line loss factors per customer type (e.g., domestic).

2. NS Power system overview

NS Power operates a 5,000 km transmission network, ensuring reliable electricity delivery across the province. The system includes AC interconnections with New Brunswick and a DC interconnection with Newfoundland and Labrador.

The transmission network operates at nominal voltages of 345 kV, 230 kV, 138 kV, and 69 kV, supporting efficient power transmission throughout the grid.

A map of major facilities (2024) is presented in Figure 1, illustrating the key infrastructure components of the NS Power system.

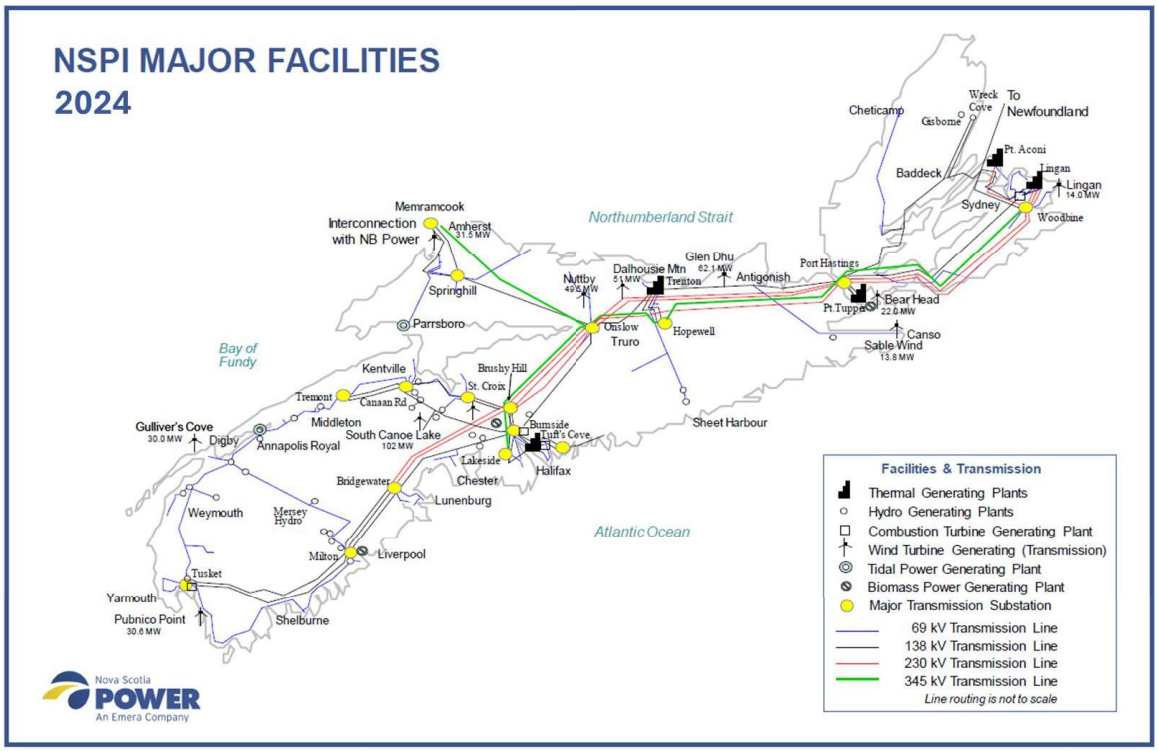


Figure 1: Map of NS Power's major facilities

NS Power operates a vertically integrated utility that generates, transmits, and distributes electricity across the province. The distribution system consists of 31,800 kilometres of power lines, 29,500 transmission towers, 500,000 distribution poles, and 190 substations.

3. Definition of terms

3.1 Technical Losses

Technical losses refer to the energy dissipated within the electrical system components while delivering power to customers. These losses are inherent to the equipment used for transmission, distribution and secondary services. They are due to conductor resistance and transformer losses, which include:

- Conductor losses – Proportional to resistance and square to the current flow.

- Transformer losses – Comprised of load losses, also known as copper losses, due to winding resistance, and no-load losses due to the alternating magnetic field in the core (i.e., hysteresis losses and eddy-current losses).

Power losses are expressed in kilowatts (or as a percentage of peak load losses), while energy losses are measured in kilowatt-hours per year (or as a percentage of total energy sold).

3.2 Non-technical losses

Non-technical losses represent the discrepancy between the total electricity distributed to customers and the amount actually billed and paid for. These losses arise from various factors, including electricity theft, fraud, metre tampering, faulty metering equipment, modelling errors and administrative errors such as incorrect records and estimates, or billing mistakes.

3.3 Load factor

A factor used to convert peak power to average power. It is the ratio of the average power to the peak power.

$$LF = \frac{P_{avg}}{P_{peak}}$$

3.4 Loss factor

The loss factor represents a ratio between the average loss of energy in kilowatts for a specific period and the maximum loss of energy for that specific period. It is calculated based on the equation given below:

$$LSF = k \times LF + (1 - k) \times LF^2$$

Where 'k' is a constant that varies depending on the network level (e.g., feeder and distribution transformer).

(Reference - W. Bayliss and B. Hardy, Transmission and Distribution Electrical Engineering, 4th ed. Oxford, UK: Newnes, 2012.)

3.5 Loss Allocation Factor

The Loss Allocation Factor (LAF) is a calculated ratio used to allocate annual energy losses across customer classes based on their relative energy sales (consumption). It reflects the average amount of energy loss attributable of each kilowatt-hour sold within a class. This factor is a representation of the proportionate distribution of losses according to how each class utilizes the network. It is calculated using the following equation:

$$Loss\ Allocation\ Factor = \frac{Annual\ Energy\ Loss}{Energy\ Sales}$$

4. Network loss study

4.1 Transmission losses

The calculation of transmission system losses relies on a detailed modelling approach using PSS/E software. This process incorporates hourly (8760) SCADA data, allowing for a comprehensive assessment of real-time system conditions, including breaker status and load variations. The transmission model includes detailed information about transmission lines, power transformers and additional apparatus such as capacitors and reactors.

The annual transmission energy losses are derived through monthly simulations, where each month's peak loss is recorded as shown in Table 1. The highest peak loss over the 12-month period is used to estimate the total annual losses, providing an accurate representation of energy dissipation within the transmission network. These results are based on 2023 models.

Table 1: Transmission monthly simulation results

Month	Energy (MWh)	Peak (MW)	Peak Loss (MW)	Energy Loss (MWh)
January	1,112,409	1,921	82	30,858
February	1,118,927	2,403	102	33,090
March	1,114,369	1,909	58	27,086
April	864,685	1,723	52	18,010
May	817,315	1,447	55	19,106
June	719,041	1,423	30	13,140
July	845,437	1,452	35	15,732
August	841,338	1,415	36	15,153
September	783,881	1,417	30	12,685
October	814,919	1,459	45	17,248
November	980,174	1,767	50	22,599
December	1,100,122	2,008	58	27,804
Total	11,112,618	2,403	102	252,511

4.2 Distribution losses

NS Power relies on a combination of Georeferenced Information System (GIS) data, CYME Power System Engineering software, SCADA monitoring, and metering data from AMI and MV90 systems. A key component of the distribution loss modelling process is the GIS-based distribution primary network model, which is integrated with CYME software to perform load flow simulations. This model provides a detailed representation of the distribution system, but certain constraints affect its completeness, including:

- SCADA coverage is limited to approximately 50% of feeders, reducing real-time visibility into system operations.
- AMI data is not fully integrated into CYME, though it is used for single-interval load models at critical points such as peak demand conditions.
- Model does not include secondary cabling.

To assess the losses occurring during the peak system demand, NS Power conducted a load flow study on all of NS Power's 174 distribution networks, using the CYME software and 2023 peak data. The peak load model was developed from AMI and MV90 metre data.

This study estimated total distribution demand losses at 52.55 MW, representing 2.93% of the total 1,794 MW distribution demand load.

Additionally, a sensitivity analysis was performed using premise-level AMI data to adjust the demand of each customer class by ±10% as shown Table 3. This allowed for the calculation of marginal demand losses across different customer segments.

Table 2: 2023 peak load flow study

	DLine 2023 Peak CYME Results				
Customer Class	Modeled kW	Customer Count	10%+ incr loss (kW)	10%- incr loss (kW)	Marginal Demand Loss %
DOMESTIC	1,132,870	512,963	8,355	-7,561	7.0%
SMALL GENERAL	60,099	27,247	314	-315	5.2%
GENERAL	373,496	11,279	1,466	-1,403	3.8%
GENERAL LARGE	39,814	19	91	-91	2.3%
SMALL INDUSTRIAL	34,570	2,090	253	-246	7.2%
MEDIUM INDUSTRIAL	63,685	183	314	-281	4.7%
LARGE INDUSTRIAL (Dist)	76,594	28	244	-208	2.9%
MUNICIPAL/BUTU	8,142	1	58	-52	6.8%

The results indicated that marginal demand losses varied depending on the customer class, with large general customers as low as 2.3%, while domestic customers as high as 7.0%.

The marginal demand losses were used to proportionally allocate the total demand losses of 52.55 MW.

Table 3: Distribution loss sensitivity

	Distribution Loss Sensitivty			
Customer Class	Marginal Demand Loss %	Modeled kW	Allocated Demand Loss %	Demand Loss (kW)
DOMESTIC	7.0%	1,132,870	3.47%	39,358
SMALL GENERAL	5.2%	60,099	2.59%	1,555
GENERAL	3.8%	373,496	1.90%	7,093
GENERAL LARGE	2.3%	39,814	1.13%	449
SMALL INDUSTRIAL	7.2%	34,570	3.57%	1,233
MEDIUM INDUSTRIAL	4.7%	63,685	2.31%	1,471
LARGE INDUSTRIAL (Dist)	2.9%	76,594	1.46%	1,117
MUNICIPAL/BUTU	6.8%	8,142	3.36%	273

Using the method in Section 3.3 to calculate the load factor and the data of the 2023 study, a total distribution system load factor of 52.75% was calculated. To translate demand losses into annual energy losses, an industry-accepted loss factor calculation methodology was used as presented in Section 3.4 with an industry standard value for "k" of 0.15.

$$LSF_d = 0.15 \text{ x } LF + 0.85 \text{ x } LF^2$$

This resulted in a calculated loss factor of 31.57%. To validate the accuracy of this estimation, a secondary verification process was performed using CYME simulations of 8,760-hour data for 2023 on seven feeders, which yielded a 49.3% load factor and a 28.3% loss factor.

Applying the empirical formula to the 49.3% load factor from the hourly simulation yields a loss factor of 28.1%. This closely aligns with the 28.3% loss factor that was directly calculated in the simulation, reinforcing the reliability of the loss factor formula applied to the total distribution loss calculations.

Table 4: Results of the feeder level loss factor

Annual Peak Load (PL) (kW)	Energy in a year (kWh)	Load Factor (LF) %	Loss Factor (Feeder Level) %	Loss Factor (Service Level) %
1,794,284	8,291,795,086	52.75%	31.57%	35.31%

Using the peak demand loss values and the calculated loss factor, the total annual distribution energy losses were then computed. The calculation followed the formula:

$$52.55 \text{ x } 0.316 \text{ x } 8760 = 145\ GWh$$

This corresponds to 1.75% of total annual energy consumption, providing a quantifiable estimate of the distribution system energy loss.

In addition to distribution system load losses, substation transformer no-load losses were estimated separately based on asset inventory data, as they were not directly accounted for in CYME's loss modelling. These no-load losses amounted to 1,780 kW, contributing 0.10% of the demand loss and 0.19% of the total annual energy loss as shown in Table 5. Although these losses are relatively small, they play a role in the overall efficiency of the distribution system and were factored into final calculations.

Table 5: Distribution annual energy loss

Peak Losses (kW)	Substation NLL Peak (kW)	Substation NLL Energy (kWh)	Annual Energy Loss - Distribution (kWh)	Annual Energy Loss %
52,550	1,780	15,592,800	145,320,400	
2.93%	0.10%	0.19%	1.75%	1.94%

4.3 Secondary losses

Given limited GIS data and initial software constraints, a structured approach was implemented using GIS data, AMI metering, CYME simulations, and historical load research to improve modelling accuracy with typical configurations.

The estimation process required developing typical secondary network configurations based on available data and NS Power's line construction standards. Key parameters included the number of customer connections per transformer, secondary conductor characteristics and length, and transformer loss values (both load and no-load losses). This structured approach ensures that losses are properly distributed based on real system conditions.

Additionally, secondary networks were classified by service type to align loss calculations with customer load behaviours.

For residential customers, configurations included:

- Rural pole-mounted systems;
- Suburban and urban pole-mounted systems;



- Multi-unit pad-mounted services.

For commercial and industrial customers, configurations included:

- Pole-mounted transformers for smaller loads;
- Pad-mounted transformers for larger underground networks;
- Vault transformers for high-density urban and industrial applications.

Loss allocation was further refined using billing data and GIS analysis to determine the proportion of customers connected at secondary voltage levels. This approach ensured that each customer class was assigned losses reflective of actual consumption patterns.

Typical configurations were modelled in the CYME Low Voltage Secondary Distribution (LVSD) module. It captures single-phase centre-tapped transformers and service drop cable models (e.g., Triplex) for advance modelling. The typical length was used for voltage drop and loss calculations.

To calculate loss factors, historical load research was used, ensuring losses were accurately represented. Again, the methodology was used as presented in Section 3.4 with an industry standard value for "k" of 0.30.

$$LSF_s = 0.30 \text{ x } LF + 0.70 \text{ x } LF^2$$

The annual secondary energy losses were estimated using:

- Peak losses for each typical secondary configuration, including conductor and service transformer load losses;
- Typical service transformer no-load losses;
- Customer class load factors from 2023 load shapes;
- Proportion of secondary connections by class;
- Demand losses calculated by multiplying the peak load loss percentage by the coincident demand and adding service transformer no-load losses;
- Energy losses calculated by multiplying the peak load loss percentage by the non-coincident demand and loss factor and adding the service transformer no-load losses to get the average loss in kilowatts. This result was multiplied by 8,760 hours to get annual energy losses.

The secondary energy losses by secondary configuration are presented below:

Table 6: Secondary energy losses and peak load losses

Customer Class	Secondary Configuration	Annual kWh Sec	Non-Coincident Demand Sec (kW)	Coincident Demand Sec (kW)	Loss Factor %	Peak Load Loss %	NLL (kW)	Demand Losses (kW)	Energy Loss %	Energy Losses (kWh)
DOMESTIC	Padmount	214,016,494	62,170	54,017	29.70%	3.03%	273	1,908	3.40%	7,287,046
	Pole Mounted	4,972,825,509	1,444,557	1,255,113	29.70%	2.95%	5,207	42,260	3.15%	156,564,513
	Vault	26,934,962	7,824	6,798	29.70%	0.68%	50	96	2.13%	573,483
SMALL GENERAL	Padmount	78,760,411	17,981	15,267	36.20%	2.20%	135	471	3.09%	2,435,762
	Pole Mounted	263,498,318	60,157	51,078	36.20%	2.07%	503	1,560	3.17%	8,355,568
	Vault	11,174,987	2,551	2,166	36.20%	0.68%	16	31	1.73%	193,648
GENERAL	Padmount	1,263,681,698	235,648	221,644	48.90%	2.20%	1,953	6,840	3.12%	39,365,254
	Pole Mounted	594,985,660	110,951	104,358	48.90%	2.07%	1,029	3,187	3.17%	18,839,820
	Vault	236,452,281	44,093	41,473	48.90%	0.68%	303	585	1.67%	3,938,569
SMALL INDUSTRIAL	Padmount	117,316,236	19,727	16,722	50.10%	2.20%	147	516	2.73%	3,199,685
	Pole Mounted	125,650,380	21,129	17,910	50.10%	2.07%	177	547	2.76%	3,464,148
	Vault	2,479,802	417	353.47	50.10%	0.68%	3	5	1.41%	35,067
MEDIUM INDUSTRIAL	Padmount	228,854,318	39,738	29,482	58.40%	2.20%	260	910	2.95%	6,757,794
	Pole Mounted	6,832,432	1,186	880.17	58.40%	2.07%	9	27	2.95%	201,515
	Vault	27,025,435	4,693	3,481	58.40%	0.68%	25	49	1.43%	386,076

4.4 Non-technical losses

Non-technical losses were allocated to distribution and secondary network components only, where the risk of theft and metering uncertainty is more prevalent. No allocation was made to transmission level losses, due to the lower likelihood of theft or unmetered consumption at higher-voltage levels.

Quantifying non-technical losses is challenging, and published figures vary across different regions. A document published as part of a distribution line loss study in Ontario estimates that they represent 1.2% of the energy sold (Reference - Hydro-One, Distribution Line Loss, 2005).

As a reference point, we initially adopted this given benchmark of 1.2% for non-technical energy losses. This value was adjusted as the modelling information improved to a final value of 0.74%.

The non-technical demand losses were estimated based on the ratio between technical demand and energy losses by class and adjusted to align with the total system coincident demand.

The total system contributions of non-technical energy and demand losses were approximately 0.8% and 2.3% respectively.

5. Network loss summary

Following the detailed 2023 network loss assessment, an additional step was required to project the annual energy losses for 2026. Since energy losses vary based on system conditions, demand growth, and infrastructure changes, a scaling approach was applied to estimate future losses based on the 2023 study results.

To achieve this, a ratio was calculated by comparing the forecasted 2026 system demand and energy consumption to the values observed in 2023. This ratio was then applied to the annual energy losses for each network segment (transmission, distribution, secondary) to obtain projected 2026 energy losses.

Table 7: 2026 annual energy losses per segment

Network segments		Peak power (delivered by component) (MW)	Annual energy (delivered by component) (GWh)	Power loss at peak (MW)	Power loss at peak (% of total)	Annual energy loss (GWh)	Annual energy loss (% of total)	Annual energy loss as % of total energy sold
Transmission	Transmission line	2,403	11,102	102	4.2%	258	34%	2.43%
Distribution	Substation transformers and distribution line losses	1,794	9,707	52.5	2.9%	149	20%	1.40%
	Substation no-load losses	1,794	9,707	52.5	2.9%	17	2%	0.16%
Secondary	Secondary line – Load and no-load losses	1,550	8,550	39.6	3.2%	254	34%	2.39%
Non-technical	Non-technical	1,794	9,707	42.52	2.37%	79	10%	0.74%
Total		2,403	11,102	289	12%	757.6	100%	7.13%

6. Classification of customers

The level at which customers are connected to the network significantly impacts the energy losses associated with electricity delivery. Losses vary depending on the voltage level at which electricity is supplied, the length of distribution lines, and the number of transformation stages before reaching the end user.

1. Transmission system customers

Customers connected at the transmission level receive electricity at higher voltages, typically between 345 kV and 69 kV. At these voltage levels, energy losses are relatively lower. Because electricity is transmitted at high voltage, currents are lower for the same power delivery, and transmission-class customers experience lower energy losses per unit of energy delivered compared to those connected to lower voltage systems.

2. Primary distribution customers

Customers in this category are connected to primary distribution lines operating at voltages ranging from 25 kV to 4.16 kV. At these lower voltage levels, energy losses increase.

Customers connected through distribution substations also experience load and no-load losses through the transformers. Primary distribution losses are incremental to the transmission losses.

3. Secondary distribution customers

At the lowest-voltage level, secondary distribution customers receive electricity that has passed through several stages of transformation, eventually reaching voltages ranging from 600 V to 240/120 V. Energy losses in this segment are higher due to multiple factors, including the operation of pole-mounted, pad-mounted, underground transformers, and secondary cable configurations.

These transformers often operate at lower load factors, meaning they continue consuming energy even when the demand is low (no load losses), leading to higher losses relative to the energy delivered. Additionally, secondary distribution lines themselves contribute to energy losses due to their longer distances and higher current per kilowatt of power delivered.

The customer classification is described in Figure 2:

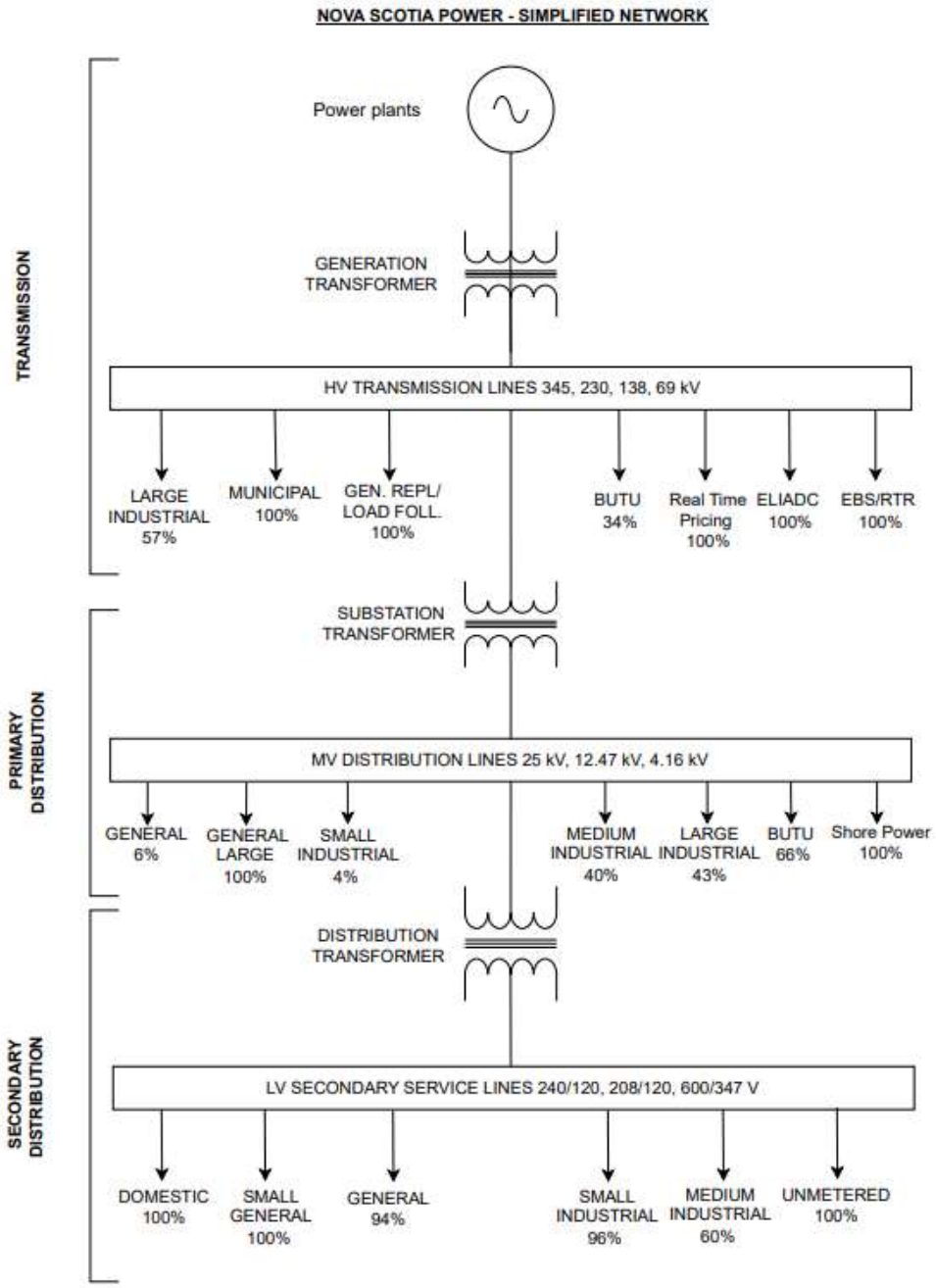


Figure 2: Simplified network diagram

After defining the customer classification, a proportional allocation method is used to distribute losses among the different customer groups. The Table 8 represents the percentage contribution of each customer class to secondary, primary, and transmission losses, as well as non-technical losses.

Customers connected at lower voltage levels tend to contribute more significantly to energy losses, due to the higher secondary currents and the in-line transformers. For example, Small General customers account for a higher proportion of total losses compared to Municipal customers, who receive electricity at higher voltages with minimal transformation.

Table 8: Level of contribution to network losses per customer class

Class	Secondary	Primary	Transmission
(1) Domestic	100%	0%	0%
(5) Small General	100%	0%	0%
(8) General	94%	6%	0%
(11) General Large	0%	100%	0%
(12) Small Industrial	96%	4%	0%
(13) Medium Industrial	60%	40%	0%
(14) Large Industrial	0%	43%	57%
(15) Municipal	0%	0%	100%
(17) Unmetered	100%	0%	0%
(19) GEN.REPL/LOAD FOLL	0%	0%	100%
(20) BUTU	0%	66%	34%
(21) Real Time Pricing	0%	0%	100%
(22) ELIADC	0%	0%	100%
(23) Shore Power	0%	100%	0%
(24) EBS/RTR	0%	0%	100%

However, when considered as an end-to-end system, each customer contributes to the total of the losses of the supplying systems. For example, a domestic customer connected at the secondary distribution level also relies on primary distribution and transmission networks to receive electricity. As a result, this class contributes to losses at all three levels.

Table 9 below indicates the proportion of each customer class that is taking energy from each voltage network.

Table 9: Proportional allocation of losses per customer class

Class	Secondary	Primary	Transmission	Non-Technical
(1) Domestic	100%	100%	100%	100%
(5) Small General	100%	100%	100%	100%
(8) General	94%	100%	100%	100%
(11) General Large	0%	100%	100%	100%
(12) Small Industrial	96%	100%	100%	100%
(13) Medium Industrial	60%	100%	100%	100%
(14) Large Industrial	0%	43%	100%	43%
(15) Municipal	0%	0%	100%	0%
(17) Unmetered	100%	100%	100%	100%
(19) GEN.REPL/LOAD FOLL	0%	0%	100%	0%
(20) BUTU	0%	66%	100%	66%
(21) Real Time Pricing	0%	0%	100%	0%
(22) ELIADC	0%	0%	100%	0%
(23) Shore Power	0%	100%	100%	100%
(24) EBS/RTR	0%	0%	100%	0%

The initial allocation table was developed to illustrate how each customer class contributes to energy losses across the different system segments. However, these values represent relative contributions per segment rather than final weighted percentages that could be directly applied in loss allocation calculations. To address this, a recalibration was performed by normalizing the class segment-level contributions to the proportional energy consumption of each class. This adjustment ensures that each class's overall contribution is accurately represented while preserving the structure of the original distribution.

Table 10: Proportion recalibration

Class	Secondary	Primary	Transmission	Non-Technical
(1) Domestic	63.3%	56.4%	49.1%	56.4%
(5) Small General	4.3%	3.8%	3.3%	3.8%
(8) General	25.3%	24.0%	20.9%	24.0%
(11) General Large	0.0%	3.9%	3.4%	3.9%
(12) Small Industrial	3.0%	2.8%	2.4%	2.8%

(13) Medium Industrial	3.2%	4.8%	4.1%	4.8%
(14) Large Industrial	0.0%	3.3%	6.6%	3.3%
(15) Municipal	0.0%	0.0%	0.4%	0.0%
(17) Unmetered	0.9%	0.8%	0.7%	0.8%
(19) GEN.REPL/LOAD FOLL	0.0%	0.0%	0.1%	0.0%
(20) BUTU	0.0%	0.2%	0.3%	0.2%
(21) Real Time Pricing	0.0%	0.0%	0.1%	0.0%
(22) ELIADC	0.0%	0.0%	7.6%	0.0%
(23) Shore Power	0.0%	0.01%	0.01%	0.01%
0(24) EBS/RTR	0.0%	0.0%	0.9%	0.0%
Total	**100%**	**100%**	**100%**	**100%**

7. Methodology

7.1 Energy loss allocation factors

The calculation of annual energy losses is based on the contribution of each customer class to energy losses across different network segments (Transmission, Distribution, Secondary and Non-Technical).

Since customers are connected at different voltage levels, the total annual losses incurred by each class must be determined by summing its contribution to losses in each segment.

To determine the losses associated with each customer class at a specific network level, the following formula is applied:

$$Segment\ Loss = Customer\ Class\ Contribution\ \% \ \times \ Total\ Annual\ Loss\ for\ the\ Segment$$

This formula ensures that each customer class is allocated a portion of the total energy losses within a given segment based on its proportional energy consumption at that voltage level. For example, a residential customer connected at the secondary distribution level contributes to secondary, primary, transmission losses and non-technical losses, as electricity flows through all these segments before reaching the end user.

An industrial customer connected at the primary distribution level contributes only to primary, transmission and non-technical losses, since energy is not routed through the secondary network.

A transmission-connected customer only contributes to transmission losses, as they receive electricity at high voltage without passing through the distribution system.

Once the segment losses are calculated, the total annual energy loss for each customer class is obtained by summing the losses across all network segments:

$$Total\ Energy\ Losses = \sum Segment\ Losses$$

The Loss Allocation Factor (LAF), as previously defined in section 3.5, is then applied to quantify the proportion of the annual energy losses relative to the annual energy sales of each customer class.

In the Table 11 below are the results of energy losses for each customer class:

Table 11: Loss allocation factor and energy loss results

	(1) kWH SALES	(5) ANNUAL ENERGY LOSS PER CLASS (GWh)	(6) LOSS ALLOCATION FACTOR (%)	(7) TRANSMISSION ENERGY LOSS (GWh)	(8) TRANSMISSION ENERGY LOSS (%)	(9) DISTRIBUTION ENERGY LOSS (GWh)	(10) DISTRIBUTION ENERGY LOSS (%)	(11) SECONDARY ENERGY LOSS (GWh)	(12) SECONDARY ENERGY LOSS (%)	(13) NON-TECHNICAL ENERGY LOSS (GWh)	(14) NON-TECHNICAL ENERGY LOSS (%)
(1) DOMESTIC	5 213 776 964	429.66	8.24%	126.88	2.43%	93.98	1.80%	164.43	3.15%	44.37	0.85%
(5) SMALL GENERAL	353 433 715	28.96	8.19%	8.60	2.43%	6.37	1.80%	10.98	3.11%	3.01	0.85%
(8) GENERAL	2 219 406 397	175.04	7.89%	54.01	2.43%	40.01	1.80%	62.14	2.80%	18.89	0.85%
(11) GENERAL LARGE	358 568 276	18.24	5.09%	8.73	2.43%	6.46	1.80%	0.00	0.00%	3.05	0.85%
(12) SMALL IN DUSTRIAL	255 141 808	19.68	7.71%	6.21	2.43%	4.60	1.80%	6.70	2.63%	2.17	0.85%
(13) MEDIUM INDUSTRIAL	438 584616	29.66	6.76%	10.67	2.43%	7.91	1.80%	7.35	1.68%	3.73	0.85%
(14) LARGE INDUSTRIAL	697 602 851	24.94	3.57%	16.98	2.43%	5.41	0.78%	0.00	0.00%	2.55	0.37%
(15) MUNICIPAL	42 642 865	1.04	2.43%	1.04	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(17) UNMETERED	77 274 626	6.36	8.23%	1.88	2.43%	1.39	1.80%	2.43	3.14%	0.66	0.85%
(11) SUB-TOTAL	9 656 432 118	733.57	7.60%	234.99	2.43%	166.12	1.72%	254.03	2.63%	78.42	0.81%
(19) GEN.REPL./LOAD FOLL.	15 043328	0.37	2.43%	0.37	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(20) BUTU	29 947 726	1.25	4.18%	0.73	2.43%	0.36	1.19%	0.00	0.00%	0.17	0.56%
(21) REAL TIME PRICING											
(22) ELIADC											
(23) Shore Power											
(24)EBS/RTR	95 657 972	2.33	2.43%	2.33	2.43%	0.00	0.00%	0.00	0.00%	0.00	0.00%
(16) TOTAL	10 622 050 373	757.63	7.13%	258.49	2.43%	166.50	1.57%	254.03	2.39%	78.60	0.74%

7.2 Coincident demand loss allocation factors

The coincident demand loss can be calculated for each customer class by multiplying the class contribution to peak demand by the results of the class demand loss percentage for each network segment.

Transmission demand losses were obtained from PSS/E 8,760-hour load flows and applied as a common percentage for all classes. Sensitivity analysis on marginal demand losses yielded inconsistent results for smaller rate classes and was excluded from loss allocation.

Distribution demand losses were calculated using a peak load model in CYME and allocated based on marginal demand losses by class (see Table 2: 2023 peak load flow study).

Secondary demand losses were derived from typical configuration models by applying inventory analysis and CYME secondary load flow analysis.

A summary of demand loss allocation factors by class is shown in the table below:

Table 12: Summary of demand loss allocation factors

Class	Coincident Demand (kW)	Demand Loss %	Demand Loss (kW)	Transmission Demand Loss %	Transmission Demand Loss (kW)	Distribution Demand Loss %	Distribution Demand Loss (kW)	Secondary Demand Loss %	Secondary Demand Loss (kW)	Non-Technical Demand %	Non-Technical Demand (kW)
(1) RESIDENTIAL	1,315,928	13.90%	182,951	4.22%	55,575	3.57%	47,023	3.36%	44,264	2.74%	36,088
(5) SMALL GENERAL	68,512	12.19%	8,351	4.22%	2,893	2.69%	1,840	3.01%	2,061	2.27%	1,556
(8) GENERAL	389,273	10.95%	42,643	4.22%	16,440	2.00%	7,779	2.73%	10,611	2.01%	7,813
(11) GENERAL LARGE	44,117	6.73%	2,967	4.22%	1,863	1.23%	542	0.00%	0.00	1.27%	562
(12) SMALL INDUSTRIAL	36,368	13.74%	4,996	4.22%	1,536	3.67%	1,333	2.94%	1,068	2.91%	1,059
(13) MEDIUM INDUSTRIAL	56,500	10.69%	6,041	4.22%	2,386	2.41%	1,361	1.74%	986	2.31%	1,307
(14) LARGE INDUSTRIAL	77,775	5.59%	4,346	4.22%	3,285	0.67%	521	0.00%	0.00	0.70%	541
(16) MUNICIPAL	8,780	4.22%	371	4.22%	371	0.00%	0.00	0.00%	0.00	0.00%	0.00
(17) UNMETERED	10,903	13.90%	1,516	4.22%	460	3.57%	390	3.36%	367	2.74%	299
(18) SUB-TOTAL	2,008,156	12.66%	254,182	4.22%	84,810	3.03%	60,789	2.96%	59,358	2.45%	49,225
(19) GEN.REPL./LOAD FOLL.	67	5.78%	4	4.22%	3	1.56%	1	0.00%	0.00	0.00%	0.00
(20) BUTU	32,224	8.89%	2,865	4.22%	1,361	2.29%	738	0.00%	0.00	2.38%	766
(21) REAL TIME PRICING											
(22) ELIADC											
(23) SHORE POWER											
(24) EBS/RTR	49,894	4.22%	2,107	4.22%	2,107	0.00%	0.00	0.00%	0.00	0.00%	0.00
(25) TOTAL	2,155,341	12.15%	261,903	4.22%	91,026	2.85%	61,528	2.75%	59,358	2.32%	49,991

7.3 Non-coincident demand loss allocation factors

NS Power's cost of service methodology considers three categories for non-coincident demand losses:

- Secondary voltage: includes service transformer and secondary conductor;
- Primary voltage: includes primary distribution lines and equipment;
- Bulk power transformers: include power transformers that step down voltage for distribution.



These non-coincident demand loss allocation factors were derived from the results for coincident demand losses. The following formula was applied to account for the square relationship of losses to current flow:

$$L_{non-coin} = L_{coin} \times (\frac{D_{non-coin}}{D_{coin}})^2$$

It was also determined from the distribution peak analysis in CYME that approximately 20% of the total distribution loss is related to transformer losses. An 80/20 factor was applied to the distribution demand loss results to differentiate between primary voltage and bulk power transformers.

The results of the non-coincident demand loss allocation factor calculations by class are shown below:

Table 13: Non-coincident demand loss allocation factor

Cutomer class	Secondary Non-coin Demand Loss %	Primary Non-coin Demand Loss %	Bulk Power Tx Non-coin Demand Loss %	Total
Domestic	3.54%	3.82%	0.96%	8.32%
Small General	4.17%	2.41%	0.60%	7.19%
General	3.08%	1.97%	0.49%	5.55%
Large General	0.00%	0.52%	0.13%	0.65%
Small Industrial	4.09%	2.06%	0.51%	6.66%
Medium Industrial	3.17%	0.81%	0.20%	4.18%
Large Industrial	0.00%	0.61%	0.15%	0.76%
Municipal	0.00%	0.00%	0.00%	0.00%
Unmetered	3.54%	3.82%	0.96%	8.32%

8. Analysis

To assess the evolution of system losses, a comparison is made between the forecasted 2023 results and the projected 2026 energy losses across all network segments, as represented in the table below:

Table 14: Comparison of 2023 forecasted results and 2026 results

Class	Energy Line Loss (2023) %	Demand Line Loss (2023) %	Energy Line Loss (2026) %	Demand Line Loss (2026) %
(1) RESIDENTIAL	9.10%	15.90%	8.24%	13.90%
(5) SMALL GENERAL	8.40%	12.70%	8.19%	12.20%
(8) GENERAL	5.70%	8.30%	7.89%	11.00%
(11) GENERAL LARGE	5.90%	5.90%	5.09%	6.70%
(12) SMALL INDUSTRIAL	5.80%	6.80%	7.71%	13.70%
(13) MEDIUM INDUSTRIAL	5.50%	6.60%	6.76%	10.70%
(14) LARGE INDUSTRIAL	4.60%	4.00%	3.57%	5.60%
(16) MUNICIPAL	4.00%	4.00%	2.43%	4.20%
(17) UNMETERED	8.20%	15.90%	8.23%	13.90%
(18) SUB-TOTAL	7.60%	13.20%	7.60%	12.70%
(19) GEN.REPL./LOAD FOLL.	4.00%	4.00%	2.43%	5.80%
(20) BUTU	5.40%	5.40%	4.18%	8.90%
(21) REAL TIME PRICING	4.00%	0.00%	2.43%	0.00%
(22) ELIADC	2.00%	2.00%	2.43%	4.20%
(23) SHORE POWER	4.00%	0.00%	5.09%	0.00%
(24) EBS/RTR	4.00%	4.00%	2.43%	4.20%
(25) TOTAL	7.10%	12.50%	7.13%	12.20%

9. Conclusion

In conclusion, the evaluation of network losses by segment to determine loss allocation factors and demand line losses provides valuable insights on the impact of each customer on the NS Power network. Transmission, distribution and secondary information were leveraged from several data sources to support the overall estimation. The developed methodology will serve as a foundation for cost-of-service assessment.