



March 1, 2023

REDACTED

Crystal Henwood
Regulatory Affairs Officer/Clerk
Nova Scotia Utility and Review Board
1601 Lower Water Street, 3rd Floor
P.O. Box 1692, Unit "M"
Halifax, NS B3J 3S3

Re: Extra Large Industrial Active Demand Control (ELIADC) Tariff – 2022 Annual Report

Dear Ms. Henwood:

Nova Scotia Power Incorporated (NS Power, Company) applied to the Nova Scotia Utility and Review Board (NSUARB, Board), on September 27, 2019, for approval of the Extra Large Industrial Active Demand Control (ELIADC) Tariff, under which Port Hawkesbury Paper LP (PHP) would take service from NS Power. On March 26, 2020, the Board provided approval of the ELIADC Tariff, which included the following requirement to file an annual report:

Annually, NS Power shall report to the Board to confirm the dollar value of system savings that have been achieved through Active Demand Control of PHP's load under the Protocol, taking account of the impacts of any variances by PHP from the dispatch schedules issued to it by NS Power and any adjustments arising from schedule variances if required. NS Power shall endeavor to submit this report no later than 60 days after the end of a tariff year.

The ELIADC Tariff 2022 Annual Report (Annual Report) is provided under cover of this letter.

In summary, the ELIADC Tariff resulted in a benefit to other customers of \$3.83 million in 2022, which is the minimum payment amount required under the Tariff, e.g. \$4/MWh multiplied by the PHP load of 957 GWh.

As specifically noted in the FAM Quarterly Reports during 2022, following the calculation

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of the CBL Energy Charge of \$57.99/MWh for 2022, NS Power did not reforecast the indicative ADC differential that may be available for 2022. Significant and unprecedented volatility in commodity prices continued throughout the year with the geopolitical landscape, which increased the actual cost to serve PHP well above the CBL Energy Charge that was calculated using a flat PHP load prior to the start of 2022.

Therefore, while actual load shifting benefits continued to be realized on account of the ADC service to reduce overall system costs, the calculated difference between the forecast CBL Energy Charge and the actual cost to serve does not create a positive value for 2022 due to the significantly higher than forecast cost of the fuel sources used to serve PHP. For purposes of the ELIADC Tariff calculations, this unprecedented increase in commodity pricing negated the possibility of showing any calculated system savings achieved through the Active Demand Control of PHP's load under the Protocol. In such circumstances, PHP is obligated to pay the full actual cost to serve, inclusive of the additional costs arising from any variances by PHP from the dispatch schedules issued to it by NS Power, and the "Minimum Payment" section of the ELIADC Tariff applies. It states:

The ELIADC Tariff requires that a minimum payment shall be made by PHP in respect of each tariff year, which shall not be less than the sum of:

- (a) NS Power's actual total incremental cost of serving PHP during the year (including the cost of fuel and purchased power, line losses, variable operating costs and variable capital costs for NS Power's incremental generation and delivery of electricity to the customer), plus
- (b) \$4.00 multiplied by the total number of MWh supplied in the year.

Any adjustments required to achieve this minimum payment amount will be determined and charged to PHP after year end.

Please refer to the attached Annual Report for further details.

As noted in the FAM Q2 report, the degree of fuel market volatility raised uncertainty in the calculation of the indicative cost to serve PHP based on forward replacement pricing. As further noted in the FAM Q3 report and repeated in the FAM Q4 report, "While forward replacement fuel pricing is used in this report, NSPI has also been calculating the cost to serve PHP at a more granular level based on actual fuel consumption excluding financial hedges. It has been found that the use of forward replacement fuel pricing in 2022 is not representative of, and overstates the cost of the actual fuel consumed, due to previously mentioned unprecedented fuel volatility."

As indicated in the FAM Q3 report, NS Power reviewed the details of the comparison

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between forward replacement fuel pricing and the actual cost of fuel consumed at the Q4 2022 FAM SWG meeting, NS Power also prepared and circulated a Draft Procedure ELIADC Cost to Serve to the FAM SWG on January 27, 2023, and responded to subsequent questions from the Board's consultant, Bates White, and the Small Business Advocate ("SBA"). As NS Power noted in its response to the SBA, "...forward replacement pricing no longer correlated with the actual fuel costs to serve PHP as a result of significant and unprecedented market volatility in the forward pricing that occurred in 2022. As a result, it no longer reflects the actual costs to serve PHP." The use of forward replacement fuel pricing in 2022 would result in a total cost to PHP (inclusive of adders) of \$160.7 million, or \$167.92/MWh, on its load of 957 GWh. As this overstates the cost of the actual fuel consumed, the previously mentioned methodology was used to determine the cost of the actual fuel consumed, as provided below.

NS Power's year end calculation of the actual cost to serve PHP at a more granular level based on actual fuel consumption excluding financial hedge and inclusive of adders is \$109.8 million, or \$114.70/MWh. NS Power has reviewed this calculation with PHP and understands that PHP is in agreement with this calculation of the actual cost to serve PHP's load in 2022. Further to the consultation with the FAM SWG and materials provided as noted above, NS Power's intention is to bill PHP for 2022 on the basis of this calculation of the actual cost to serve PHP, inclusive of adders, of \$109.8 million.

NS Power intends to include the required adjustment on PHP's upcoming bill in one week's time (March 8, 2023) to provide opportunity for any additional comments from interested parties before moving forward on this basis.

In recognition of the significant rise in the calculation of the actual cost to serve PHP as actively discussed between NS Power and PHP starting in Q2, PHP began making additional payments to NS Power beginning on July 1, 2022, which have totaled \$38.2 million in 2022. The final bill adjustment is therefore expected to be approximately \$10.7 million.

NS Power and PHP will continue to work in a collaborative manner with the goal of achieving continued benefits for all customers as a result of PHP remaining on the ELIADC Tariff for 2023 and continuing to provide its load flexibility to the system in the current challenging circumstances.

Consistent with the 2021 ELIADC Annual Report, NS Power is seeking confidential treatment for certain information in the attached 2022 Annual Report as it is information that is understood to be commercially sensitive to PHP. NS Power's proposed Confidential Undertaking (CU) for this matter is also attached. NS Power respectfully requests approval of the treatment of redacted information as confidential as well as approval of the CU.

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Yours truly,



Blake Williams
Senior Regulatory Counsel

Nova Scotia Power Inc. Annual FAM Reporting ELIADC Tariff Revenue For the Year Ended December 31, 2022		
	YTD Dec \$	YTD Dec MWh
ELIADC in Annual FAM Report (reported on A3)	\$ 163,099,738	956,809
ADC Adjustment ⁽¹⁾	(108,702,084)	
VOM Adjustment ⁽²⁾	(98,770)	
CBL Energy Charge	\$ 54,298,884	956,809

ELIADC Report																		
	CBL Energy Charge (\$)					CBL Adder (\$)												
Month	Fuel & Purchased Power Charge	Variable Operating & Maintenance Charge	Fixed Cost Recovery	Total Delivered Energy (MWh)	Target Energy (MWh)	Fixed Cost Recovery (\$)	Var Capital Adder (\$)	Total Billed Charge (\$)	Incremental cost to serve PHP (\$)	ADC Load Shifting Differential (\$) ⁽³⁾	ADC Load Shifting Benefit (\$/MWh)	# of Hours Cause Code 1	# of Hours Cause Code 2	# of Hours Cause Code 3	# of Hours Cause Code 4	# of Hours Cause Code 5	Total Hours in Period	Comments
January 2022	\$ 3,967,635	\$ 74,109	\$ 12,585	69,914		\$ 267,073	\$ 126,545	\$ 4,447,946	\$ 9,034,368	\$ (4,992,623)	\$ (71.41)	23	27	39	25	190	744	
February 2022	\$ 4,038,030	\$ 75,424	\$ 12,808	71,155		\$ 271,811	\$ 128,790	\$ 4,526,863	\$ 8,989,832	\$ (4,876,377)	\$ (68.53)	51	50	104	75	75	672	
March 2022	\$ 4,630,005	\$ 86,481	\$ 14,685	81,586		\$ 311,659	\$ 147,671	\$ 5,190,501	\$ 6,552,158	\$ (1,835,671)	\$ (22.50)	58	27	97	37	26	744	
April 2022	\$ 5,082,230	\$ 94,928	\$ 16,120	89,555		\$ 342,099	\$ 162,094	\$ 5,697,470	\$ 9,967,865	\$ (4,790,708)	\$ (53.49)	60	25	67	20	0	720	
May 2022	\$ 4,900,171	\$ 91,527	\$ 15,542	86,347		\$ 329,844	\$ 156,287	\$ 5,493,372	\$ 9,737,853	\$ (4,746,154)	\$ (54.97)	63	10	106	45	7	744	
June 2022	\$ 3,961,331	\$ 73,991	\$ 12,565	69,803		\$ 266,648	\$ 126,344	\$ 4,440,878	\$ 5,923,696	\$ (1,888,374)	\$ (27.05)	66	13	102	103	9	720	
July 2022	\$ 5,089,667	\$ 95,067	\$ 16,143	89,686		\$ 342,600	\$ 162,331	\$ 5,705,808	\$ 10,772,934	\$ (5,588,200)	\$ (62.31)	78	23	80	69	78	744	
August 2022	\$ 4,847,882	\$ 90,551	\$ 15,377	85,425		\$ 326,324	\$ 154,620	\$ 5,434,753	\$ 9,798,347	\$ (4,859,915)	\$ (56.89)	66	88	43	75	36	744	
September 2022	\$ 4,347,819	\$ 81,210	\$ 13,790	76,614		\$ 292,664	\$ 138,671	\$ 4,874,154	\$ 5,683,406	\$ (1,254,377)	\$ (16.37)	101	25	55	87	3	720	
October 2022	\$ 4,624,747	\$ 86,383	\$ 14,669	81,493		\$ 311,305	\$ 147,503	\$ 5,184,607	\$ 9,003,419	\$ (4,292,288)	\$ (52.67)	203	68	74	18	6	744	
November 2022	\$ 4,406,831	\$ 82,313	\$ 13,978	77,653		\$ 296,636	\$ 140,553	\$ 4,940,309	\$ 8,102,054	\$ (3,612,911)	\$ (46.53)	114	59	37	142	28	720	
December 2022	\$ 4,402,538	\$ 82,232	\$ 13,964	77,578		\$ 296,347	\$ 140,416	\$ 4,935,497	\$ 10,625,522	\$ (6,140,752)	\$ (79.16)	177	39	122	55	8	744	
2022 total	\$ 54,298,885	\$ 1,014,217	\$ 172,226	956,809		\$ 3,655,009	\$ 1,731,823	\$ 60,872,160	\$ 104,191,455	\$ (48,878,352)	\$ (51.08)	1060	454	926	751	466	8760	

Cause Code 1 - NUP - NSP Energy System Operator initiated ramp Up
Cause Code 2 - NDN - NSP Energy System Operator initiated ramp Down
Cause Code 3 - PFL - PHP Failure to Load due to equipment or process constraints
Cause Code 4 - PNA - PHP and NSP Agreement to new dispatch
Cause Code 5 - PDN - PHP Decision to vary from schedule.

(1) The ADC Adjustment is comprised of quarterly provisions for estimated ADC benefit payable to PHP. The difference between the provisional amounts and the final determined amount of ADC benefit payable to PHP will be recorded in 2023.
(2) The VOM adjustment is a provision for the difference between the forecasted VOM used for recording ELIADC revenue, and the estimated actual VOM Rate associated with serving ELIADC load in 2022 as of year-end. The difference between the provisional amount and the actual VOM will be recorded in 2023.
(3) The difference between the ADC Load Shifting Differential and ADC Differential on Benefit Breakdown, represents the FCR of \$0.18/MWh required for the minimum \$4/MWh

Nova Scotia Power Inc.
Annual FAM Reporting
ELIADC Benefit Breakdown
For the Year Ended December 31, 2022

Month	Generation Cost	Purchase Cost	Sale Revenue	Start Cost	PHP Load	CBL Energy Charge	Cost to Serve ⁽¹⁾	ADC Differential \$/MWh	ADC Differential	Off Schedule Charge
1/1/2022	6,514,799	3,048,807	-	(529,239)	69,914	\$ 57.99	\$ 129.22	\$ (71.23)	\$ (4,980,039)	\$ -
2/1/2022	7,597,029	1,644,586	-	(251,783)	71,155	\$ 57.99	\$ 126.34	\$ (68.35)	\$ (4,863,570)	\$ -
3/1/2022	5,704,099	1,165,962	-	(317,903)	81,586	\$ 57.99	\$ 80.31	\$ (22.32)	\$ (1,820,986)	\$ -
4/1/2022	10,273,296	92,039	-	(397,470)	89,555	\$ 57.99	\$ 111.30	\$ (53.31)	\$ (4,774,588)	\$ -
5/1/2022	8,638,526	1,349,364	-	(250,037)	86,347	\$ 57.99	\$ 112.78	\$ (54.79)	\$ (4,730,612)	\$ -
6/1/2022	5,839,529	532,517	-	(448,350)	69,803	\$ 57.99	\$ 84.86	\$ (26.87)	\$ (1,875,810)	\$ -
7/1/2022	10,424,239	594,451	-	(245,756)	89,686	\$ 57.99	\$ 120.12	\$ (62.13)	\$ (5,572,057)	\$ -
8/1/2022	9,857,432	566,911	-	(625,996)	85,425	\$ 57.99	\$ 114.70	\$ (56.71)	\$ (4,844,538)	\$ -
9/1/2022	5,714,907	187,627	-	(219,128)	76,614	\$ 57.99	\$ 74.18	\$ (16.19)	\$ (1,240,587)	\$ -
10/1/2022	8,910,619	532,237	-	(439,437)	81,493	\$ 57.99	\$ 110.48	\$ (52.49)	\$ (4,277,620)	\$ -
11/1/2022	7,170,810	1,252,076	-	(320,831)	77,653	\$ 57.99	\$ 104.34	\$ (46.35)	\$ (3,598,934)	\$ -
12/1/2022	7,735,693	3,312,298	-	(422,468)	77,578	\$ 57.99	\$ 136.97	\$ (78.98)	\$ (6,126,788)	\$ -
Annual Total	94,380,977	14,278,876	-	(4,468,398)	956,809	\$ 57.99	\$ 108.89	\$ (50.90)	\$ (48,706,127)	\$ -

⁽¹⁾ Cost to Serve includes \$0.5595/MWh, related to GHG emission purchases as part of the NS Cap and Trade Compliance program, final amounts to be determined in 2023

Nova Scotia Power Inc.
Annual FAM Reporting
ELIADC Offschedule Details
For the Year Ended December 31, 2022

Date	HE	Metered Load	Expected Load	Off Schedule MW	Cause Code	Paid by PHP	Hour Cost to serve	Cost to PHP
1/11/2022	13	103.467	20	83.466	PDN			
1/11/2022	14	103.357	20	83.358	PDN			
1/11/2022	15	100.275	20	80.274	PDN			
1/11/2022	16	102.687	20	82.688	PDN			
1/11/2022	17	104.076	20	84.076	PDN			
1/11/2022	18	70.264	20	50.253	PDN			
1/11/2022	19	63.686	20	43.686	PDN			
1/11/2022	20	63.826	20	43.826	PDN			
1/11/2022	21	63.568	20	43.568	PDN			
1/11/2022	22	63.789	20	43.789	PDN			
1/11/2022	23	63.174	20	43.174	PDN			
1/11/2022	24	63.043	20	43.043	PDN			
1/12/2022	1	63.216	20	43.216	PDN			
1/12/2022	2	63.361	20	43.361	PDN			
1/12/2022	3	62.823	20	42.822	PDN			
1/12/2022	4	62.056	20	42.056	PDN			
1/12/2022	5	62.537	20	42.537	PDN			
1/12/2022	6	61.960	20	41.960	PDN			
1/12/2022	7	59.869	20	39.863	PDN			
1/12/2022	8	35.306	20	15.305	PDN			
1/12/2022	9	35.220	20	15.220	PDN			
1/12/2022	10	33.756	20	13.756	PDN			
1/12/2022	11	34.810	20	14.810	PDN			
1/12/2022	12	34.187	20	14.186	PDN			
1/12/2022	13	35.801	20	15.802	PDN			
1/12/2022	14	67.980	20	47.990	PDN			
1/12/2022	15	79.617	20	59.622	PDN			
1/12/2022	16	91.137	20	71.145	PDN			
1/12/2022	17	126.936	20	106.936	PDN			
1/12/2022	18	127.738	20	107.737	PDN			
1/12/2022	19	118.887	20	98.886	PDN			
1/13/2022	6	97.337	91	6.586	PDN			
1/13/2022	10	33.887	20	13.887	PDN			
1/13/2022	11	34.963	20	14.965	PDN			
1/13/2022	12	60.208	20	40.214	PDN			
1/13/2022	13	63.117	20	43.117	PDN			
1/13/2022	14	97.449	20	77.459	PDN			
1/13/2022	15	102.428	20	82.429	PDN			
1/13/2022	16	102.386	20	82.386	PDN			
1/13/2022	17	102.058	20	82.058	PDN			
1/13/2022	18	100.209	20	80.210	PDN			
1/13/2022	19	100.668	20	80.668	PDN			
1/13/2022	20	102.689	20	82.689	PDN			
1/13/2022	21	93.993	20	74.000	PDN			
1/13/2022	22	126.615	20	106.616	PDN			
1/13/2022	23	127.248	20	107.248	PDN			
1/13/2022	24	126.266	20	106.271	PDN			
1/14/2022	1	165.436	120	45.442	PDN			
1/14/2022	10	104.051	95	9.051	PDN			
1/14/2022	11	103.786	95	8.787	PDN			
1/14/2022	12	103.688	95	8.688	PDN			
1/14/2022	13	104.310	95	9.310	PDN			
1/14/2022	14	103.172	95	8.171	PDN			
1/14/2022	17	105.243	45	60.244	PDN			
1/14/2022	18	128.187	45	83.193	PDN			
1/14/2022	19	127.702	45	82.701	PDN			
1/14/2022	20	127.754	45	82.754	PDN			
1/14/2022	21	128.334	45	83.335	PDN			
1/15/2022	7	166.975	120	46.975	PDN			
1/15/2022	8	166.640	120	46.641	PDN			
1/15/2022	9	166.568	120	46.568	PDN			
1/15/2022	10	151.260	45	106.242	PDN			
1/15/2022	11	102.692	45	57.691	PDN			
1/15/2022	12	102.169	45	57.169	PDN			
1/15/2022	13	86.425	20	66.415	PDN			
1/15/2022	14	61.853	20	41.853	PDN			
1/15/2022	15	61.532	20	41.532	PDN			
1/15/2022	16	62.433	20	42.433	PDN			
1/15/2022	17	38.551	20	18.543	PDN			
1/15/2022	18	32.909	20	12.906	PDN			
1/15/2022	19	22.075	20	2.072	PDN			
1/18/2022	9	62.205	20	42.205	PDN			
1/18/2022	10	62.530	20	42.530	PDN			
1/18/2022	11	63.459	20	43.460	PDN			
1/18/2022	12	67.321	20	47.321	PDN			
1/18/2022	13	81.743	20	61.759	PDN			
1/18/2022	14	126.358	20	106.359	PDN			
1/18/2022	15	126.884	20	106.883	PDN			
1/18/2022	16	126.593	20	106.594	PDN			
1/18/2022	17	110.339	20	90.320	PDN			
1/18/2022	18	61.552	20	41.551	PDN			
1/18/2022	19	40.690	20	20.683	PDN			
1/18/2022	20	35.786	20	15.787	PDN			
1/18/2022	21	38.021	20	18.021	PDN			
1/18/2022	22	49.026	20	29.039	PDN			
1/18/2022	23	97.966	93	4.903	PDN			
1/20/2022	7	156.137	119	37.631	PDN			
1/20/2022	8	77.554	20	57.542	PDN			
1/20/2022	9	59.945	20	39.945	PDN			
1/20/2022	10	59.927	20	39.927	PDN			
1/20/2022	11	59.297	20	39.297	PDN			
1/20/2022	12	58.748	20	38.746	PDN			
1/20/2022	13	25.138	18	6.905	PDN			
1/20/2022	22	20.410	20	0.521	PDN			
1/20/2022	23	28.245	20	8.247	PDN			

Nova Scotia Power Inc.
Annual FAM Reporting
ELIADC Offschedule Details
For the Year Ended December 31, 2022

Date	HE	Metered Load	Expected Load	Off Schedule MW	Cause Code	Paid by PHP	Hour Cost to serve	Cost to PHP
1/20/2022	24	33.951	20	13.952	PDN			
1/21/2022	1	35.523	20	15.523	PDN			
1/21/2022	2	36.910	20	16.910	PDN			
1/21/2022	3	83.327	20	63.350	PDN			
1/21/2022	4	123.275	20	103.277	PDN			
1/21/2022	5	125.291	20	105.290	PDN			
1/21/2022	6	108.771	20	88.758	PDN			
1/21/2022	7	30.394	19	11.630	PDN			
1/24/2022	8	58.563	20	38.562	PDN			
1/24/2022	9	58.960	20	38.961	PDN			
1/24/2022	10	57.972	20	37.971	PDN			
1/24/2022	11	57.661	20	37.662	PDN			
1/24/2022	12	57.754	20	37.754	PDN			
1/24/2022	13	49.356	20	29.350	PDN			
1/24/2022	14	52.649	20	32.656	PDN			
1/24/2022	15	86.158	20	66.175	PDN			
1/24/2022	16	123.308	20	103.309	PDN			
1/24/2022	17	122.536	20	102.536	PDN			
1/24/2022	18	122.570	20	102.570	PDN			
1/24/2022	19	122.568	20	102.567	PDN			
1/24/2022	20	123.849	20	103.849	PDN			
1/24/2022	21	122.508	20	102.507	PDN			
1/25/2022	8	98.910	45	53.909	PDN			
1/25/2022	9	98.493	45	53.493	PDN			
1/25/2022	10	97.381	45	52.380	PDN			
1/25/2022	11	97.787	45	52.787	PDN			
1/26/2022	8	96.975	95	1.964	PDN			
1/26/2022	9	96.172	95	1.269	PDN			
1/26/2022	10	96.734	95	1.733	PDN			
1/26/2022	11	96.641	95	1.642	PDN			
1/26/2022	12	96.036	45	51.027	PDN			
1/26/2022	13	92.380	45	47.396	PDN			
1/26/2022	14	120.638	45	75.638	PDN			
1/26/2022	15	119.983	45	74.982	PDN			
1/26/2022	16	120.525	45	75.526	PDN			
1/26/2022	17	120.342	45	75.342	PDN			
1/26/2022	18	119.670	45	74.670	PDN			
1/26/2022	19	121.657	20	101.657	PDN			
1/26/2022	20	114.110	20	94.107	PDN			
1/26/2022	21	102.747	20	82.747	PDN			
1/26/2022	22	102.086	20	82.086	PDN			
1/26/2022	23	106.840	20	86.841	PDN			
1/26/2022	24	109.389	20	89.391	PDN			
1/27/2022	1	110.581	20	90.581	PDN			
1/27/2022	2	113.183	20	93.184	PDN			
1/27/2022	3	93.880	20	73.869	PDN			
1/27/2022	4	75.802	20	55.801	PDN			
1/27/2022	5	76.597	20	56.598	PDN			
1/27/2022	6	19.318	17	1.898	PDN			
1/27/2022	21	21.901	19	3.206	PDN			
1/27/2022	22	30.020	20	10.021	PDN			
1/27/2022	23	29.977	20	9.977	PDN			
1/27/2022	24	38.655	20	18.656	PDN			
1/28/2022	10	119.182	119	0.203	PDN			
1/28/2022	11	119.631	119	0.185	PDN			
1/28/2022	12	117.100	117	0.224	PDN			
1/28/2022	13	119.030	119	0.451	PDN			
1/28/2022	14	123.026	45	78.027	PDN			
1/28/2022	15	124.055	45	79.054	PDN			
1/28/2022	16	123.637	120	3.639	PDN			
1/28/2022	17	124.420	120	4.419	PDN			
1/28/2022	18	124.507	120	4.507	PDN			
1/28/2022	19	125.260	45	80.259	PDN			
1/28/2022	20	124.474	45	79.474	PDN			
1/28/2022	21	123.828	95	28.829	PDN			
1/28/2022	22	125.022	120	5.022	PDN			
1/28/2022	23	123.951	120	3.952	PDN			
1/28/2022	24	125.879	120	5.879	PDN			
1/29/2022	1	122.902	120	2.900	PDN			
1/29/2022	2	123.166	120	3.167	PDN			
1/29/2022	3	124.166	120	4.166	PDN			
1/29/2022	4	125.290	120	5.290	PDN			
1/29/2022	5	126.147	120	6.147	PDN			
1/29/2022	6	125.463	120	5.463	PDN			
1/29/2022	7	124.078	120	4.077	PDN			
1/29/2022	8	124.128	120	4.128	PDN			
1/29/2022	9	124.3127203	120	4.312	PDN			
1/29/2022	10	123.5519491	120	3.553	PDN			
1/29/2022	11	124.2332143	120	4.233	PDN			
1/29/2022	12	123.0179812	120	3.017	PDN			
1/29/2022	13	122.5859052	120	2.586	PDN			
1/29/2022	14	123.437446	120	3.438	PDN			
1/29/2022	15	122.5308624	120	2.530	PDN			
1/29/2022	16	122.4194232	95	27.419	PDN			
1/29/2022	17	122.434805	95	27.434	PDN			
1/29/2022	18	122.3171986	95	27.318	PDN			
1/29/2022	19	121.8571728	120	1.858	PDN			
1/29/2022	20	123.5980286	120	3.598	PDN			
1/29/2022	21	123.8442187	120	3.844	PDN			
1/29/2022	22	123.8123055	120	3.812	PDN			
1/31/2022	17	37.65107038	36	1.331	PDN			
1/31/2022	19	43.67856562	40	3.408	PDN			
1/31/2022	20	56.08892817	45	11.091	PDN			
1/31/2022	21	60.86723828	45	15.867	PDN			
1/31/2022	22	61.18032708	45	16.180	PDN			

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Date	HE	Metered Load	Expected Load	Off Schedule MW	Cause Code	Paid by PHP	Hour Cost to serve	Cost to PHP
2/1/2022	17	31.60176177		19	12.744 PDN			
2/1/2022	18	42.82892681		20	22.829 PDN			
2/1/2022	19	43.74658726		20	23.747 PDN			
2/1/2022	20	44.53507054		20	24.535 PDN			
2/1/2022	21	45.38562246		20	25.386 PDN			
2/1/2022	22	49.92384182		20	29.926 PDN			
2/1/2022	23	57.6601813		20	37.663 PDN			
2/1/2022	24	59.21236016		20	39.212 PDN			
2/2/2022	6	61.4412726		45	16.441 PDN			
2/2/2022	7	60.82740672		45	15.827 PDN			
2/2/2022	8	61.60080494		45	16.602 PDN			
2/2/2022	9	62.44663505		45	17.447 PDN			
2/2/2022	10	83.75621207		45	38.773 PDN			
2/2/2022	11	99.80398393		45	54.804 PDN			
2/2/2022	12	124.3612416		45	79.361 PDN			
2/2/2022	13	123.674364		45	78.674 PDN			
2/5/2022	6	169.883852		120	49.885 PDN			
2/5/2022	7	140.8904036		114	26.799 PDN			
2/5/2022	8	103.2617337		45	58.261 PDN			
2/5/2022	9	101.7954308		45	56.795 PDN			
2/5/2022	10	102.2427785		20	82.243 PDN			
2/5/2022	11	62.45909973		20	42.447 PDN			
2/5/2022	12	60.72406278		20	40.724 PDN			
2/5/2022	13	61.57401705		20	41.575 PDN			
2/5/2022	14	61.72127244		20	41.721 PDN			
2/5/2022	15	62.61476798		20	42.615 PDN			
2/5/2022	16	62.80551697		20	42.806 PDN			
2/5/2022	17	63.20242868		20	43.202 PDN			
2/5/2022	18	62.21380101		20	42.214 PDN			
2/5/2022	19	61.72748901		20	41.727 PDN			
2/5/2022	20	62.97790629		20	42.978 PDN			
2/5/2022	21	63.09725722		20	43.098 PDN			
2/5/2022	22	62.82199942		20	42.822 PDN			
2/5/2022	23	63.975429		20	43.975 PDN			
2/5/2022	24	63.58303283		20	43.583 PDN			
2/6/2022	1	63.97040889		20	43.971 PDN			
2/6/2022	2	63.80542007		20	43.806 PDN			
2/6/2022	3	63.38699734		20	43.386 PDN			
2/6/2022	4	43.69831674		20	23.691 PDN			
2/6/2022	5	36.30754084		20	16.307 PDN			
2/6/2022	6	33.57726874		20	13.577 PDN			
2/6/2022	7	34.72929892		20	14.729 PDN			
2/6/2022	8	34.16248299		20	14.163 PDN			
2/6/2022	9	33.08213537		20	13.082 PDN			
2/6/2022	10	34.35926367		20	14.359 PDN			
2/6/2022	11	33.64949296		20	13.650 PDN			
2/6/2022	12	35.5827886		20	15.583 PDN			
2/6/2022	13	77.4136846		58	18.927 PDN			
2/6/2022	15	88.573157		80	8.133 PDN			
2/6/2022	16	82.39339016		69	13.607 PDN			
2/6/2022	17	81.53278422		20	61.533 PDN			
2/6/2022	18	80.96566522		20	60.966 PDN			
2/6/2022	19	80.9032544		20	60.903 PDN			
2/6/2022	20	80.82057951		20	60.820 PDN			
2/6/2022	21	80.56893681		20	60.569 PDN			
2/14/2022	8	63.78433501		20	43.781 PDN			
2/14/2022	9	63.61861086		20	43.618 PDN			
2/14/2022	10	63.66263898		20	43.663 PDN			
2/14/2022	11	62.81708903		20	42.817 PDN			
2/14/2022	12	63.69232439		20	43.692 PDN			
2/14/2022	13	63.05472863		30	32.946 PDN			
2/14/2022	14	63.06267442		20	43.063 PDN			
2/14/2022	15	63.87295457		20	43.873 PDN			
2/14/2022	16	73.5544094		50	23.510 PDN			
2/15/2022	8	38.07310855		20	18.066 PDN			
2/15/2022	9	36.04887469		20	16.049 PDN			
2/15/2022	10	34.03304885		20	14.033 PDN			
2/15/2022	11	34.22515895		20	14.225 PDN			
2/15/2022	12	35.22825878		20	15.228 PDN			
2/15/2022	13	34.5142379		20	14.514 PDN			
2/28/2022	18	64.22050137		45	19.220 PDN			
2/28/2022	19	63.66778833		45	18.668 PDN			
2/28/2022	20	61.96721565		45	16.966 PDN			
2/28/2022	21	62.30497912		45	17.305 PDN			
2/28/2022	22	63.04109156		45	18.048 PDN			
3/3/2022	15	22.29307848		17	5.047 PDN			
3/3/2022	16	43.22884033		20	23.229 PDN			
3/3/2022	17	45.76091882		20	25.762 PDN			
3/3/2022	18	46.783553		20	26.783 PDN			
3/3/2022	19	46.94920594		20	26.949 PDN			
3/3/2022	20	47.07371962		20	27.074 PDN			
3/3/2022	21	46.97536728		20	26.975 PDN			
3/3/2022	22	46.67490315		20	26.675 PDN			
3/4/2022	6	112.5166987		20	92.499 PDN			
3/4/2022	7	40.74482935		20	20.737 PDN			
3/4/2022	8	35.92876793		20	15.929 PDN			
3/4/2022	9	35.19562832		20	15.196 PDN			
3/4/2022	10	35.68883628		20	15.689 PDN			
3/4/2022	11	34.98888127		20	14.989 PDN			
3/4/2022	12	34.84310962		20	14.843 PDN			
3/4/2022	13	34.68062072		20	14.681 PDN			
3/4/2022	14	36.03843335		20	16.038 PDN			
3/29/2022	8	85.27831082		45	40.248 PDN			
3/29/2022	9	63.8061881		45	18.807 PDN			
3/29/2022	10	63.0393307		45	18.039 PDN			

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Date	HE	Metered Load	Expected Load	Off Schedule MW	Cause Code	Paid by PHP	Hour Cost to serve	Cost to PHP
3/29/2022	11	62.64691614	45	17.647	PDN			
3/30/2022	8	62.92744768	45	17.917	PDN			
3/30/2022	9	62.19016144	45	17.190	PDN			
3/30/2022	10	61.72011671	45	16.720	PDN			
3/30/2022	11	63.3741183	45	18.374	PDN			
3/30/2022	12	62.9674593	45	17.968	PDN			
5/7/2022	8	67.3785456	45	22.368	PDN			
5/7/2022	9	65.52176574	45	20.521	PDN			
5/7/2022	10	65.59054707	45	20.591	PDN			
5/7/2022	11	64.22869199	45	19.229	PDN			
5/8/2022	21	170.7112681	120	50.712	PDN			
5/8/2022	22	171.4205729	120	51.421	PDN			
5/8/2022	23	172.3774864	120	52.377	PDN			
6/23/2022	11	98.99285262	45	53.993	PDN			
6/23/2022	12	99.68380948	45	54.684	PDN			
6/23/2022	13	99.02397727	45	54.023	PDN			
6/23/2022	14	91.09587964	45	46.092	PDN			
6/23/2022	15	85.01370107	45	40.014	PDN			
6/23/2022	16	88.70411882	45	43.705	PDN			
6/23/2022	17	94.41820049	45	49.421	PDN			
6/23/2022	18	98.56971065	45	53.569	PDN			
6/23/2022	19	97.2288044	45	52.229	PDN			
7/13/2022	10	57.30192319	45	12.302	PDN			
7/13/2022	11	56.32723441	45	11.328	PDN			
7/13/2022	12	58.36672033	45	13.366	PDN			
7/13/2022	13	61.77733101	45	16.779	PDN			
7/13/2022	14	60.54084718	45	15.540	PDN			
7/13/2022	15	59.89715743	45	14.897	PDN			
7/13/2022	16	56.68173083	44	12.298	PDN			
7/13/2022	17	59.25730832	45	14.258	PDN			
7/13/2022	18	59.14460918	45	14.145	PDN			
7/13/2022	19	59.18222974	45	14.182	PDN			
7/13/2022	20	60.31605961	45	15.317	PDN			
7/13/2022	21	60.97317779	45	15.973	PDN			
7/13/2022	22	77.82258658	45	32.834	PDN			
7/14/2022	9	119.5350783	45	74.516	PDN			
7/14/2022	10	101.190195	45	56.191	PDN			
7/14/2022	11	99.22390844	45	54.223	PDN			
7/14/2022	12	100.0602383	45	55.061	PDN			
7/14/2022	13	100.5774075	45	55.577	PDN			
7/14/2022	14	100.0693711	45	55.070	PDN			
7/14/2022	15	101.095495	45	56.096	PDN			
7/14/2022	16	101.2299834	45	56.230	PDN			
7/14/2022	17	100.7495495	45	55.750	PDN			
7/14/2022	18	100.4629438	45	55.463	PDN			
7/14/2022	19	102.4343194	45	57.435	PDN			
7/14/2022	20	123.5388828	45	78.545	PDN			
7/14/2022	21	127.5986218	45	82.598	PDN			
7/14/2022	22	128.3694209	120	8.372	PDN			
7/21/2022	9	100.089234	45	55.070	PDN			
7/21/2022	10	85.80247475	45	40.791	PDN			
7/21/2022	11	59.26405704	20	39.265	PDN			
7/21/2022	12	59.84122622	20	39.841	PDN			
7/21/2022	13	60.14529716	20	40.145	PDN			
7/21/2022	14	61.45506492	20	41.455	PDN			
7/21/2022	15	61.13515051	20	41.136	PDN			
7/21/2022	16	61.20090036	20	41.201	PDN			
7/21/2022	17	61.09586331	20	41.096	PDN			
7/21/2022	18	62.3234343	20	42.324	PDN			
7/21/2022	19	62.99067007	55	8.009	PDN			
7/21/2022	20	72.96917026	68	5.235	PDN			
7/22/2022	9	170.648038	120	50.648	PDN			
7/22/2022	10	170.1110034	120	50.111	PDN			
7/22/2022	11	154.0213341	116	37.652	PDN			
7/22/2022	12	102.0581231	45	57.058	PDN			
7/22/2022	13	99.54276956	45	54.541	PDN			
7/22/2022	14	97.05270955	45	52.053	PDN			
7/22/2022	15	80.14032333	45	35.131	PDN			
7/22/2022	16	58.16260833	45	13.303	PDN			
7/22/2022	17	60.50881686	45	15.508	PDN			
7/22/2022	18	60.72706532	45	15.727	PDN			
7/22/2022	19	61.37455899	45	16.374	PDN			
7/22/2022	20	62.11652794	45	17.117	PDN			
7/22/2022	21	64.23934496	45	19.240	PDN			
7/23/2022	11	62.85108256	45	17.851	PDN			
7/23/2022	12	63.24611746	45	18.246	PDN			
7/23/2022	13	63.11435427	45	18.114	PDN			
7/23/2022	14	63.27841022	45	18.278	PDN			
7/23/2022	15	58.65467897	45	13.653	PDN			
7/23/2022	16	58.84309117	45	13.845	PDN			
7/23/2022	17	94.80474509	45	49.816	PDN			
7/23/2022	18	100.8606592	45	55.861	PDN			
7/23/2022	19	95.1977222	45	50.186	PDN			
7/23/2022	20	60.64045894	45	15.641	PDN			
7/23/2022	21	62.21542394	53	8.783	PDN			
7/24/2022	10	123.1043783	45	78.085	PDN			
7/24/2022	11	104.5724474	45	59.572	PDN			
7/24/2022	12	104.5610471	45	59.561	PDN			
7/24/2022	13	104.2170837	45	59.217	PDN			
7/24/2022	14	104.4922583	45	59.493	PDN			
7/24/2022	15	103.9416175	45	58.941	PDN			
7/24/2022	16	104.3821283	45	59.382	PDN			
7/24/2022	17	103.0682171	45	58.068	PDN			
7/24/2022	18	101.7914016	45	56.791	PDN			
7/24/2022	19	101.5227794	45	56.523	PDN			

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7/24/2022	20	102.8105877		45	57.810 PDN			
7/24/2022	21	102.3178972		45	57.318 PDN			
7/30/2022	16	121.4301665		111	10.293 PDN			
7/30/2022	17	133.1350273		118	15.512 PDN			
7/30/2022	18	132.8208853		45	87.822 PDN			
8/3/2022	8	139.1863335		45	94.172 PDN			
8/3/2022	9	62.07814884		45	17.061 PDN			
8/3/2022	10	60.70332883		45	15.702 PDN			
8/3/2022	11	60.7759746		45	15.777 PDN			
8/3/2022	12	51.10110301		42	9.208 PDN			
8/4/2022	7	171.9616388		120	51.960 PDN			
8/4/2022	8	105.7642718		45	60.746 PDN			
8/4/2022	9	60.47829845		45	15.467 PDN			
8/4/2022	10	59.04422534		45	14.044 PDN			
8/4/2022	11	55.08620337		44	11.313 PDN			
8/4/2022	13	31.7126426		20	11.712 PDN			
8/4/2022	14	29.12341129		20	9.320 PDN			
8/5/2022	1	202.7127563		184	19.132 PDN			
8/5/2022	2	207.0095985		185	22.009 PDN			
8/5/2022	3	205.1651798		185	20.155 PDN			
8/5/2022	4	197.9625117		182	15.743 PDN			
8/5/2022	5	199.2466334		184	15.570 PDN			
8/5/2022	6	203.9912251		185	18.991 PDN			
8/5/2022	7	203.5831096		185	18.582 PDN			
8/5/2022	8	187.0824776		177	9.608 PDN			
8/5/2022	9	166.0210119		120	46.019 PDN			
8/5/2022	10	70.11394863		45	25.085 PDN			
8/5/2022	11	57.37591747		45	12.376 PDN			
8/5/2022	12	58.59770071		45	13.598 PDN			
8/5/2022	13	58.57690176		45	13.577 PDN			
8/5/2022	14	44.0586477		40	4.011 PDN			
8/5/2022	16	30.6126442		30	0.609 PDN			
8/8/2022	9	84.43908559		80	4.325 PDN			
8/8/2022	10	57.03025726		20	37.030 PDN			
8/8/2022	11	56.7130389		20	36.713 PDN			
8/8/2022	12	44.67682272		20	24.671 PDN			
8/8/2022	13	32.4498685		20	12.449 PDN			
8/8/2022	14	31.10201638		20	11.101 PDN			
8/27/2022	12	59.81440193		45	14.814 PDN			
8/27/2022	13	59.92686699		45	14.927 PDN			
8/27/2022	14	60.9982319		45	16.001 PDN			
9/8/2022	10	63.56623031		20	43.566 PDN			
9/8/2022	11	62.26114681		20	42.262 PDN			
9/8/2022	12	81.31888407		20	61.330 PDN			
10/6/2022	11	31.86696685		20	11.866 PDN			
10/25/2022	16	100.6832032		45	55.683 PDN			
10/25/2022	17	103.6493367		45	58.650 PDN			
10/25/2022	18	103.1709123		45	58.171 PDN			
10/25/2022	19	104.1881777		45	59.189 PDN			
10/25/2022	20	106.1326221		45	61.132 PDN			
11/9/2022	19	21.09417592		21	0.324 PDN			
11/9/2022	20	21.36966734		21	0.147 PDN			
11/9/2022	21	20.05047059		19	0.989 PDN			
11/15/2022	8	101.8596683		45	56.860 PDN			
11/15/2022	9	101.4110226		45	56.411 PDN			
11/15/2022	10	78.22205112		45	33.210 PDN			
11/15/2022	11	58.69621994		45	13.696 PDN			
11/15/2022	12	59.52287981		45	14.523 PDN			
11/15/2022	13	59.18601672		45	14.185 PDN			
11/15/2022	14	56.03364671		45	11.036 PDN			
11/15/2022	15	62.12901998		45	17.129 PDN			
11/15/2022	16	60.77386276		45	15.774 PDN			
11/15/2022	17	41.41868227		38	3.101 PDN			
11/18/2022	13	59.07380552		45	14.074 PDN			
11/18/2022	14	58.96643562		45	13.966 PDN			
11/18/2022	15	59.19295798		45	14.193 PDN			
11/18/2022	16	58.61448168		45	13.614 PDN			
11/18/2022	17	61.04389767		45	16.044 PDN			
11/18/2022	18	50.87563927		42	9.117 PDN			
11/19/2022	9	60.15115785		45	15.151 PDN			
11/19/2022	10	62.32185442		45	17.322 PDN			
11/19/2022	11	62.31561212		45	17.315 PDN			
11/19/2022	12	61.67136559		45	16.671 PDN			
11/19/2022	13	66.00767938		45	21.018 PDN			
11/19/2022	14	100.7463731		45	55.746 PDN			
11/19/2022	15	101.4376214		45	56.438 PDN			
11/19/2022	16	73.82170068		45	28.812 PDN			
11/19/2022	17	52.16352448		42	9.706 PDN			
12/11/2022	12	58.51430122		45	13.514 PDN			
12/11/2022	13	58.77913509		45	13.778 PDN			
12/11/2022	14	58.69260063		45	13.694 PDN			
12/11/2022	15	57.70587949		45	12.706 PDN			
12/11/2022	16	44.6473978		40	5.014 PDN			
12/12/2022	8	46.16151066		41	5.378 PDN			
12/28/2022	8	97.12277064		70	27.123 PDN			
12/28/2022	9	96.44001182		70	26.439 PDN			