

NOVA SCOTIA UTILITY AND REVIEW BOARD

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

IN THE MATTER OF: Nova Scotia Power Incorporated 2024 Load Forecast Report

INFORMATION REQUESTS

To: Nova Scotia Power, Inc. (NSPI)
From: NS SBA
Responses Due: Wednesday June 19, 2024
Copies: 1 electronic copy (PDF searchable)
Contact Person: E.A. Nelson Blackburn, K.C.
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Issued at Bedford, Nova Scotia on this 29th day of May 2024

REQUEST IR-01:

Please provide workpapers, with formula intact, in Excel format, for all Figures/Charts presented in the load forecast report.

REQUEST IR-02:

- a) Other than residential EV charging and batteries, what other assets from the Smart Grid Nova Scotia (SGNS) Project were used in the load forecast Report?
- b) Please provide workpapers showing the impact of SGNS asset classes (other than residential EV charging and batteries) that were used in load forecast on peak demand and energy, by year, for the forecast period.
- c) Please provide rationale for excluding the SGNS asset classes that were not used in load forecast.

REQUEST IR-03:

- a) Please clarify if a probabilistic analysis of DER penetration/adaptation under different scenarios (i.e., low, medium, and high penetration rate) has been performed for the forecast period.
- b) If so, please provide results and workpapers; if not please explain why such analysis was not completed.

REQUEST IR-04:

- a) Please confirm if the impact of energy efficiency under different DER penetration scenarios (low, medium, and high penetration) has been studied.
- b) If so, please provide results and workpapers; if not please explain why such analysis was not completed.

REQUEST IR-05:

- a) Please clarify if the impact of reactive power on load has been studied.
- b) If so, please provide results and workpapers; if not please explain why such analysis was not completed.

1 **REQUEST IR-06:**

2 a) Please clarify if the impact of net-zero energy-ready (NZER) code on load and
3 demand has been studied.

4 b) If so, please provide results and workpapers; if not please explain why such
5 analysis was not completed.
6

7 **REQUEST IR-07:**

8 Refer to page 8, Figure 2. Historical and Predicted Annual System Peak. While system
9 peak load has been flat for the period 2014-2021, there have been substantial spikes in
10 peak demand in 2022 and 2023.

11 a) Please describe the main drivers of the significant increases in 2022 and 2023
12 peak demands, broken down by the contribution of each factor.

13 b) Please quantify the impact of the factors that drove peak demand substantially
14 higher in 2022 and 2023, compared to previous years, on near-term and long-term
15 peak demand forecasts.
16

17 **REQUEST IR-08:**

18 Refer to page 33, Figure 20: Heat Pump Energy and Peak Comparison. Please describe
19 the main drivers of the substantial differences between NS power and E3 estimations.
20

21 **REQUEST IR-09:**

22 Refer to page 34, Figure 21: Heat Pump Forecast. Please describe the methodology used
23 and provide workpapers for forecasts shown in Figure 21.
24

25 **REQUEST IR-10:**

26 Refer to page 40, Figure 26: EV Impact to Energy and Peak Forecasts (cumulative).
27 Please clarify whether the load and peak at 0.9 kW/vehicle forecast is based on E3
28 estimations or the results of Smart Grid Nova Scotia (SGNS) Project.
29