



1701 HOLLIS ST, SUITE 1200, HALIFAX, NS, B3J 3M8

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TO: The Nova Scotia Energy Board ("Board")
Date: June 24, 2025
RE: **M12247 - NS Power: Evergreen IRP Action Plan and Roadmap Update**

To whom it may concern,

Please consider this letter our formal Information Requests in the above matter.

1. For the years 2024, 2030 and 2035, please share the total installed generation capacity, and hourly supply-mix, on the: i) winter peak day, and the day prior and following; and on the ii) day of the highest renewable curtailment, and the day prior and following. Please include hourly imports and exports, renewable curtailment, and net-load reductions from demand-side measures.
2. Please describe the current IRP results for installed wind power generation capacity in 2030 and 2035. How do the scenarios relate to the province's Clean Power Plan? What is the current shortfall between operating and contracted wind power projects, and the amount of operating capacity expected in 2030 and 2035? What amount of wind power generation facility retirements are expected from today to 2030 and 2035?
3. Please describe the current IRP results for installed energy storage capacity (e.g., Battery Energy Storage Systems (BESS), Pumped Storage Hydro (PSH), and Long Duration Energy Storage (LDES) (MW and MWh) in 2030 and 2035. How do the scenarios relate to the province's Clean Power Plan? What is the current shortfall between operating and contracted energy storage projects, and the amount of operating capacity expected in 2030 and 2035? Have sensitivity analyses related to PSH and LDES been undertaken to assess their viability under certain circumstances? If yes, please describe.
4. Please share the assumptions used for: cost (capital, operating, life-span etc.); technical requirements (ancillary services, inertia support, etc.), and operational parameters (factors affecting charging and discharging, etc.), used in the IRP analysis for Battery Energy Storage Systems (BESS), Pumped Storage Hydro (PSH), and Long Duration Energy Storage (LDES). Have these assumptions changed in recent years? If yes, please describe.



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5. What factors, related to the technical capabilities of an energy resource, affect its selection by the model? For example, does a resource's ramp-rate, or capability to provide inertia support affect its dispatch order? If yes, please describe.
6. Please describe how the province's needs for load variation, frequency regulation, and other ancillary services (including black-start) are expected to change from today to 2030 and 2035? To the extent possible, please provide a qualitative and quantitative response.
7. Does the IRP model consider the operation of Synchronous Condensers? If yes, please describe their operational profile.

Thank you for this opportunity.

Sincerely,

A handwritten signature in blue ink that reads "meg morris". The signature is written in a cursive, lowercase style.

Meg Morris
Lead Project Manager
Natural Forces

