Feedback Form

Regional Electricity Planning in the North of Dryden Addendum – July 30, 2025

Feedback Provided by:

Name: Alessia Dawes

Title: Sr. Manager, Transmission System Planning - North

Organization: Hydro One Inc.

Email: [redacted] Click or tap here to enter text.

Date: August 12, 2025

To promote transparency, feedback submitted will be posted on the North of Dryden Addendum engagement webpage unless otherwise requested by the sender.

Following the North of Dryden Addendum regional planning webinar held on July 30, 2025, the Independent Electricity System Operator (IESO) is seeking feedback on the results of the options analysis and draft recommendations. A copy of the presentation as well as recording of the session can be accessed from the engagement web page.

Please submit feedback to engagement@ieso.ca by August 13, 2025.

Topic	Feedback
What feedback do you have regarding the results of the detailed options analysis?	• Please elaborate on why Options 1, 2, and 3 were considered insufficient. Is it based on meeting the reference load forecast or the high growth forecast? • Please provide a timeline showing when Red Lake Pocket high growth and extreme growth needs are expected to emerge. • Please assess the feasibility of meeting the high growth needs by converting the existing E4D line into a 230kV line. • For Option 3 Double, does the cost account for a extra circuit terminations at Dryden, Ear Falls & Red Lake station and/or potential new greenfield stations. • We suggest including a map highlighting the load centers to visualize the geographical impact of each option. Potentially map each load to 230 kV, 115 kV or distribution system location. To determine the amount, size and location of autotransformers.
What feedback do you have on the draft recommendations?	We agree with the recommendation to ultimately build two 230kV circuits between Dryden and Ear Falls and between Ear Falls and Red Lake, if needs emerge. However, a staging plan should be developed to align with or transition from Reference growth to the high growth scenario timeline. With the addition of double 230kV lines, a light load study should be conducted to assess the potential needs for reactive support in the area, as a FACTS device could cost between $50M and $100M. Make note that typically, two single-circuit 230kV lines provide better reliability than a single double-circuit line. In this specific case, since E4D serves one distribution station, it is feasible to convert E4D to 230kV once the new line is in service. We recommend additional studies for reinforcement of the Pickle Lake side. The draft recommends building a 230kV circuit parallel to E1C, which would form a 230kV loop with the backbone 230kV system. Dynamic studies are needed to determine whether the new 230kV ExC should be operated as normally open.

Topic	Feedback
How can the IESO continue to engage with communities and stakeholders as these recommendations are implemented, or to help prepare for the next planning cycle?	Click or tap here to enter text.

General Comments/Feedback

- There is some confusion of what load forecast recommendations are based on. Recommend a staging plan. Closer look at where to place autotransformers, reactive support for both peak and light loading periods. Recommend another look at how best to support the Pickle Lake load pocket. Recommend mapping of mines to practical connection voltages to refine the plan. Thank you.