

BY EMAIL AND RESS

December 17, 2025

Mr. Ritchie Murray
Acting Registrar
Ontario Energy Board
Suite 2700, 2300 Yonge Street
P.O. Box 2319
Toronto, ON M4P 1E4

Dear Mr. Murray,

EB-2025-0319 – Amending the Electricity Transmission Licence of Hydro One Networks Inc. (“Hydro One”) to Require it to Develop and Seek Approvals for New 500 kV Transmission Line from Bowmanville to the Greater Toronto Area (“GTA”) – Recommendations Received from the IESO

On November 25, 2025, the OEB amended Hydro One’s transmission licence¹ to include a requirement for Hydro One to develop and seek all necessary approvals for a new transmission line from Bowmanville to the GTA as per the Ministerial Directive issued to the OEB on November 21, 2025, under section 28.6.1 of the OEB Act, and approved by the Lieutenant Governor in Council on October 23, 2025 as Order in Council No. 1376/2025.²

As outlined in the Order in Council, the Bowmanville to GTA Transmission Line is a new 500 kV double-circuit transmission line from Bowmanville Switching Station (“SS”) to either Parkway Transformer Station (“TS”), Claireville TS, or Cherrywood TS, including associated station facility expansions or upgrades required at the terminal stations (cumulatively hereafter referred to as the Project).

In its Decision and Order³, the OEB required Hydro One to provide to them a copy of any recommendations and / or directives received from the Independent Electricity System Operator (“IESO”) related to the scope and timing of the development of the Project identified in the licence amendment.

Hydro One acknowledges that the IESO continues to develop, evaluate and recommend solutions for priority bulk system transmission plans. In December 2024, the IESO recommended a set of early actions to the government to accelerate the pace of future upgrades by reducing development lead times for new projects when there is sufficient confidence in their necessity and/or risk in delaying implementation. Among these early actions, that were proposed and included in the Ministry’s Integrated Energy Plan⁴, was the new 500 kV double-circuit transmission line from Bowmanville to the GTA.

¹ ET-2003-0035 – Hydro One’s Transmission Licence: <https://www.rds.oeb.ca/CMWebDrawer/Record/922870/File/document>

² Order in Council No. 1376/2025 and Minister’s Directive: <https://www.ontario.ca/orders-in-council/oc-13762025>

³ EB-2025-0319 – OEB Decision and Order – Amending Hydro One’s Electricity Transmission Licence, dated November 25, 2025: <https://www.rds.oeb.ca/CMWebDrawer/Record/922871/File/document>

⁴ Ontario’s Integrated Energy Plan, dated June 2025, p. 70. <https://www.ontario.ca/files/2025-07/mem-energy-for-generations-en-2025-07-18.pdf>

In addition to this recommendation, the IESO continues to provide further updates and direction through its planning process, which informs Hydro One’s development of the Project, namely;

1. 2025 Annual Planning Outlook (April 2025)⁵; and
2. Quarterly Bulk Update: South and Central Bulk Plan Study (December 2025)⁶.

In the 2025 Annual Planning Outlook, the IESO made reference to the general need and timing of the Project in *Section 5.2.2.2 - East GTA Bulk Transmission* (page 53), as outlined below:

“The addition of small modular reactors at Darlington NGS and development of other provincial supply options east of the GTA have prompted the IESO to identify the need for an additional double-circuit 500 kV transmission line from Bowmanville–Toronto, to be in-service before the second small modular reactor at Darlington NGS can be connected (currently planned for the early 2030s). The [South and Central Ontario Bulk Plan] plan will determine specific attributes of this line, including determining a suitable termination point in the GTA.”

Subsequently in the December 2025 Quarterly Bulk Update presentation, the IESO reaffirmed this need and timing of the Project, highlighting an estimated in-service date of 2032. The IESO also provided an updated draft recommendation with respect to the scope and termination point of the new 500 kV transmission line as follows:

“Terminate the new 500 kV lines into the two circuits currently supplying Parkway TS from Cherrywood TS, while still bypassing Cherrywood TS”, and thus “[n]o Parkway TS expansion and build out [required at this time]”. Furthermore, the recommendation is for “[t]he new double circuits [to] extend from Bowmanville to Cherrywood TS, following the existing right of way”.

The IESO expects to issue its final report with recommendations regarding this Project in the second quarter of 2026, as outlined in December 2025 Quarterly Bulk Update presentation.

Hydro One trusts this satisfies the reporting requirement defined in the aforementioned Decision and Order.

Sincerely,



Pasquale Catalano

C/ Musab Qureshi, Manager, Generation & Transmission

⁵ 2025 Annual Planning Outlook, dated April 2025, p. 53.

<https://www.ieso.ca/-/media/Files/IESO/Document-Library/planning-forecasts/apo/2025/2025-Annual-Planning-Outlook.pdf>

⁶ Quarterly Bulk Update: South and Central Bulk Studies, dated December 12, 2025, pp. 53-57.

<https://www.ieso.ca/-/media/Files/IESO/Document-Library/engage/bulk-planning/BP-20251212-presentation.pdf>