# Feedback Form

## Regional Electricity Planning in Toronto – September 25, 2025

### Feedback Provided by:

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Date: 10/9/2025

To promote transparency, feedback submitted will be posted on this engagement webpage unless otherwise requested by the sender.

Following the Toronto Region electricity planning engagement webinar held on September 25, 2025, the Independent Electricity System Operator (IESO) is seeking feedback on the options analysis and draft recommendations. A copy of the presentation as well as a recording of the session can be accessed from the engagement web page.

**Please submit feedback to engagement@ieso.ca by October 9, 2025.**

| Topic | Feedback |
|---|---|
| What feedback is there on the options analysis? | Click or tap here to enter text. |
| What feedback is there on the draft recommendations? | Click or tap here to enter text. |
| What information needs to be considered regarding these draft recommendations? | Click or tap here to enter text. |
| What should be considered regarding the third supply line before the regional plan is released? | Click or tap here to enter text. |
| 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

Downtown Toronto 3rd Line options analysis and recommendation

- The submarine option pushes back on flows into the Toronto load center and avoids potential upgrade needs at Cherrywood and Leaside. This includes the potential need for additional 500 kV/230 kV Transformation at Cherrywood and 230 kV/115 kV Transformation at Leaside. Costs for station work would be additive, requiring detailed Hydro One engineering estimates. There are also physical limitations at these stations for expansion that will drive up cost and disturbance.
- Adding new overhead and underground cables introduces additional charging to an area that already experiences high voltage challenges in shoulder season, which is managed by removing Cherrywood-to-Leaside circuits from services which ultimately weakens load supply capability to the area in question. As such, the new overhead and underground cable options may need to be accompanied by reactive control devices (estimate not available and analysis would be required to determine size). The VSC based submarine HVDC not only avoids adding charging to the system but also provides voltage control that mitigates high voltage concerns.
- Adding new overhead and underground circuits connecting to Cherrywood TS, Leaside TS and Hearn SS can exacerbate existing short circuit limitations at Cherrywood TS and Leaside TS. Submarine HVDC Option offers added benefits.
- A 900 MW injection in the downtown Toronto core pushes back on flows across the GTA, freeing up capacity to enable growth, facilitate maintenance outages and defer future upgrades in the area.
- The HVDC option can be configured to connect to both the Manby and Leaside sides of the downtown Toronto network. This would provide operational flexibility, serving as an enabler of maintenance outages in an aging downtown core, and to help potential restoration efforts through

black start capability should either of the other downtown supplies be lost.

- The HVDC submarine route provides geographic supply diversity supporting resiliency and response to extreme weather events relative to reinforcing exiting supply points.
- The HVDC submarine option avoids adding transmission in challenging high-density areas which would slow down approvals processes, leading to additional expenses and potential schedule delays based on our analysis of the three Downtown Toronto 3rd line options.