

Feedback Form

Regional Electricity Planning in the Peterborough to Kingston Area – April 1, 2025

Feedback Provided by:

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Date: April 15, 2025

To promote transparency, feedback submitted will be posted on [the Peterborough to Kingston engagement webpage](#) unless otherwise requested by the sender.

The Independent Electricity System Operator (IESO) is seeking feedback on the scoping assessment report. A copy of the report and a narrated video presentation can be accessed from the [engagement web page](#).

Please submit feedback to engagement@ieso.ca by April 15, 2025.

Topic	Feedback
What additional information should be considered as part of the Scoping Assessment?	The IESO is expected to procure significant amounts of new resources to meet future power system needs, including potentially over 1,000+ MW of Long-Lead Time Resources such as Long-Duration Energy Storage; 14 TWh of new energy resources and 1,600 MW of new capacity

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	<p>resources through the LT2 RFP; and potentially significant additions of nuclear resources. Currently, the Scoping Assessment does not consider the significant addition of new resources to the Ontario power system or the benefits they may add. This has the unfortunate effect of planning the regional system as an isolated power system that is not influenced by the addition of these resources potentially within the region. The siting and attributes of the new resources will impact the regional power systems. As an example, Hydrostor is developing the Quinte Energy Storage Centre (ESC) – a 500 MW/4,000+ MWh Advanced Compressed Air Energy Storage Project to be interconnected at the Lennox Transformer Station with a targeted COD in the early 2030s. Long-Duration Energy storage (LDES) resources like our Quinte ESC can provide significant value to the power system while also meeting provincial/bulk power system procurement objectives, and can also act as a Non-Wires Alternative. The Scoping Assessment must consider what resources may be developed within the region to meet the mandated provincial procurement objectives and determine how those resources could provide value to the regional power system. To incorporate the additional information, the IESO should arrange a Resource Technical Working Group to work in parallel to the TWG to inform the IESO of the attributes and design options for different resources under development in the region. The Resource Technical Working Group would also give an opportunity for the IESO to provide critical system information and analysis to help guide resource development in the region.</p>
<p>What additional considerations, based on local developments, should be taken into account for the areas identified as requiring further study?</p>	<p>In addition to establishing a Resource Technical Working Group, the Scoping Assessment should consider how to address what upgrades may be required to enable new resource development including LDES projects like the Quinte ESC in the region. The upgrades could address known constraints to new resource connections (e.g., short-circuit, thermal or voltage stability issues). The upgrades identified do not need to be initiated or funded, but can be critical information to help inform future procurement initiatives by the IESO and offer valuable insight for resource developers.</p>

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What other areas or specific considerations should be examined through regional planning?	<p>Reiterating feedback from above, regional planning would be enhanced through better examining the implications of new resource additions – and specifically LDES resources. LDES projects being developed in the region such as Hydrostor’s Quinte ESC can provide significant benefits to the transmission grid, including the ability to offer non-wires alternatives to relieve congestion and curtailment and increase the use of the existing transmission infrastructure. Furthermore, the long life of these assets makes their increased duration more valuable as baseload and variable generation is added to the grid.</p>

General Comments/Feedback

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