

Peterborough to Kingston Regional Electricity Planning Public webinar #2 – July 28, 2021

Response to feedback received

The IESO hosted a public webinar for the Peterborough to Kingston long-term electricity plan – Integrated Regional Resource Plan (IRRP) – on July 28, 2021 to seek input on early options screening and range of potential solutions to be examined as part of the IRRP. The presentation material and recorded webinar are available on the [engagement webpage](#).

Feedback was received from the following parties and the full submission can be viewed on the engagement webpage:

- Baldwin Electric Ltd.

The section below summarizes the themes that emerged from the feedback submitted and IESO responses. The IESO appreciates the feedback received, which has been considered by the Peterborough to Kingston IRRP Technical Working Group¹ as potential options to meet the region's future electricity needs continue to be evaluated.

Theme 1: Consideration of Electrification in Load Forecast Development

Feedback: Demand projected in the high growth scenario for electric vehicle (EV) charging appears to be about 12 MW over the next 20 years. It's understood that charging – particularly residential – will occur at different times and therefore limit impact on demand. However, fast chargers are rated 350 kW per station and are more likely to be used on demand in transportation corridors. Experts in the transportation industry indicate that the best way to coordinate capacity with demand is a collaboration between EV charging infrastructure suppliers and utilities. It seems like the plan should look to accommodate more than three dozen fast chargers in the long term.

IESO response: The IESO and Technical Working Group recognizes the increasing impact of electrification on the transmission system for the region. The high-growth demand forecast scenario that the Technical Working Group put together aims to capture the growing interest and implementation plans for electrification for the mid- to long-term outlook. In between formal planning cycles, the IESO and Elexicon will continue to monitor the load growth in the area, and

¹ The Peterborough to Kingston IRRP Technical Working Group consists of the IESO, Eastern Ontario Power, Elexicon Energy, Kingston Hydro, Lakefront Utilities, Peterborough Utilities, Hydro One Networks, and the IESO

will conduct an updated assessment and evaluation of the demand forecast and capacity needs as part of the next planning cycle. Planning cycles are conducted every five years at minimum, and can be triggered to commence earlier should the need to do so emerge. Although not included in the scope of the 2021 Peterborough to Kingston IRRP, the Working Group has already started to take an early look towards potential options for further reinforcement beyond the needs identified in the current planning cycle to ensure that decisions made now don't limit viable options for further capacity reinforcement down the road if needed.