

# Integrated Regional Resource Plan: Toronto Region

Proposed Recommendations for Review and  
Comment

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July 11, 2019

# Purpose and objective

- The purpose of this material is to seek input on the proposed recommendations to be included in the Integrated Regional Resource Plan (IRRP) for Toronto
- All interested parties are invited to review and provide comment on the proposed recommendations

Send feedback to [engagement@ieso.ca](mailto:engagement@ieso.ca) by July 25, 2019

# Background

- The IESO held an engagement meeting on May 22, 2019 to provide an overview of electricity planning for Toronto and an opportunity for attendees to ask questions and provide comment to inform the draft recommendations for the IRRP
- The meeting attracted over 150 participants (in person and via webinar) and included a diverse group of individuals including:
  - Municipal representatives
  - Consultants
  - Technology developers
  - Consumers (large and small)
  - Service providers
  - Government agencies
  - Utilities
- The recorded meeting captures the discussion and is available on the [Toronto IRRP engagement webpage](#)
- No written feedback was received following the meeting

# Your feedback is important

- Please consider these questions for input into the proposed IRRP recommendations:
  - What additional information needs to be considered in these recommendations?
  - Understanding Toronto’s longer-term electricity supply needs (see [May 22 presentation](#)):
    - What information would help you prepare for discussions related to longer-term electricity supply options for the next IRRP process?
    - What other considerations should be taken to meet Toronto’s future electricity needs?
  - How can the IRRP Working Group (including the IESO, Toronto Hydro, Hydro One) continue to engage with the community as these recommendations are implemented, or to help prepare for the next planning cycle?

All comments are welcomed and are not limited to the above questions – submit feedback to [engagement@ieso.ca](mailto:engagement@ieso.ca)

# PROPOSED RECOMMENDATIONS FOR TORONTO'S INTEGRATED REGIONAL RESOURCE PLAN

# Results of Toronto's electricity planning assessments\*

1

Recent investments in the electricity system have had a positive impact (e.g., ability to connect loads, better resilience)

2

There is capacity to accommodate growth in electrification (e.g. space and water heating, transportation, etc.)

3

Some capacity needs are starting to emerge in the early to mid-2030s or later (e.g., capacity to supply growth)

\*See May 22, 2019 [presentation](#) and [recorded discussion](#) for more detail

# Proposed recommendations for Toronto IRRP

1. Continue with implementation of the previous IRRPs
  - This plan re-affirms previous regional plans; and in particular, the need to reinforce the 230 kV transmission supply corridor into Central Toronto (Richview to Manby transformer stations)
2. Replace end-of-life transmission assets
  - The assessments confirm the system value of existing infrastructure reaching end-of-life in the near-term, and the need to renew them
  - Transmission assets reaching end-of-life in the medium-term will require further planning and coordination among the IESO, Hydro One and Toronto Hydro to determine the scope and timing of replacement, including assessing the merits of changes to the size of facilities to accommodate future load growth
  - The Working Group screened out non-wires alternatives as an option for addressing these end-of-life needs

# Proposed recommendations – cont'd.

3. Maintain adequate supply capacity by planning to address emerging needs in the longer term period
  - The planning assessments indicate that demand growth will exceed the capacity of some local transformers to supply the load in the 2030s
  - There are also regional transmission supply capacity needs emerging at the end of the study period (e.g., 2040)
    - Close monitoring of growth and continued planning will be required (for example, Basin TS in the Port Lands area)
    - Wires and non-wires solutions will be evaluated as options to address or defer these needs
    - Immediately begin collecting information and engaging with the community on long-term options to address these needs



# 5. ENGAGEMENT AND NEXT STEPS

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# Engagement activities to date

- 2016 – 2018: feedback from stakeholders on previous plan and setting the groundwork for this plan
- December 2017: IESO hosted a discussion panel, to get input on the electricity demand outlook (at MARS)
- Feb, March, June 2018: meetings with City of Toronto staff to discuss local plan and factors that influence demand
- April 2019: meeting with City staff to further discuss planning and preliminary findings
- May 22, 2019: public engagement meeting and webinar to provide overview of the planning assessments for the Toronto region IRRP

# Next steps

- Invite input on draft recommendations on July 11, 2019 (*this document*)
- Feedback due July 25 (to be posted on webpage)
- IESO to consider feedback and respond by August 9
- IESO to post final IRRP document on August 9
- IESO to keep interested parties informed about progress and implementation of recommendations within IRRP – subscribe to updates here <http://www.ieso.ca/subscribe>

# Thank you for your participation – stay in touch



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