

Stakeholder Feedback and IESO Response

Distributed Energy Resources (DER) Roadmap – October 20, 2021

Following the October 20, 2021 public webinar on the DER Roadmap, the Independent Electricity System Operator (IESO) received feedback from participants on the objectives and initiatives proposed for inclusion in the DER Roadmap and the associated timelines, as well as on the format and approach to information sharing.

The IESO received feedback from:

- [Bob Bach](#)
- [Coalition of Large Distributors \(CLD\)](#)
- [Electricity Distributors Association \(EDA\)](#)
- [Elson Advocacy](#)

The presentation materials and stakeholder feedback submissions have been posted on the [DER Roadmap webpage](#). Please reference the material for specific feedback as the below information provides excerpts and/or a summary only.

Notes on Feedback Summary

The IESO appreciates the feedback received from stakeholders. The IESO has provided a summary below, which outlines specific feedback or questions for which an IESO and/or OEB response was required at this time

IESO DER Roadmap objectives, initiatives and timing

The EDA submission affirmed that the information proposed for inclusion in the IESO's DER Roadmap (objectives, initiatives, timing) is helpful for stakeholders to understand the progress IESO is making on DER integration and that the identified initiatives will enable the IESO to achieve its objectives. Elson Advocacy provided additional points with respect to timing for consideration, which are summarized in the table below.

Feedback	IESO
<p>Elson Advocacy suggested to prioritize areas where there would be lost opportunities with respect to current technologies (e.g. bi-directional electric vehicle (EV) charging), and suggested this could be accomplished by prioritizing pilots for those technologies, doing specific RFPs for those technologies, or putting work on those technologies up front in each of the initiatives.</p>	<p>Identifying the types of DERs that are cost-effective and/or are likely to emerge in the near-to mid-term is a key input for the IESO's DER integration efforts.</p> <p>The IESO is undertaking a DER Potential Study, with objectives to:</p> <ul style="list-style-type: none">- Identify the key DER technologies most relevant to the Ontario context- Assess the technical, economic and achievable potential for these DERs over the next 10 years- Develop recommendations on focus areas, priorities, timing and key considerations for DER integration efforts in Ontario <p>Among the many DERs being studied in this project are light, medium, and heavy-duty EVs, including with managed charging, vehicle-to-building, and vehicle-to-grid applications. The outcomes of the DER Potential Study are expected to be input into the DER Market Vision & Design Project.</p> <p>Through its Grid Innovation Fund the IESO is also investing in three EV integration projects that will test two-way capabilities to manage this emerging resource type, to provide flexibility to the grid, and to reduce greenhouse gas emissions. At the same time, the projects are expected to help understand EV owner preferences and behaviours that will influence the take up of vehicle-to-grid technologies.</p> <p>The IESO will continue to consider other opportunities with EVs within existing and potential future initiatives.</p>

Feedback	IESO
<p>Recognizing IESO’s resource constraints, Elson recommended the IESO move the entire timeline forward, and suggested that additional investments in IESO planning would likely be highly cost-effective.</p>	<p>In recent years, the IESO has identified a number of opportunities to retain or enhance resources’ contributions to system reliability, flexibility, and market competition. With finite human resources and budget, the IESO must carefully consider if, how, and when it implements high-value enablement opportunities to ensure the value of ratepayer investments are maximized and avoid compromising the delivery of critical operations and projects.</p> <p>The IESO recently published the Enabling Resources Program work plan, which outlines the sequencing, timing and scope of activities to be undertaken by the IESO to enable resources to provide electricity system services in the post-Market Renewal market that they cannot, or cannot fully, provide under current market design.</p>

Information sharing

The EDA submission affirmed that the format/approach to sharing the IESO’s objectives, initiatives and timing is helpful for keeping up to date with the progress IESO is making on DER integration.