



APRIL 22, 2026

Enabling Resources Program (ERP)

Distributed Energy Resources (DER) Integration Project

Independent Electricity System Operator

Disclaimer

This presentation and the information contained herein is provided for informational purposes only.

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Territory Acknowledgement

The IESO acknowledges the land we are delivering today's webinar from is the traditional territory of many nations including the Mississaugas of the Credit, the Anishnawbe, the Chippewa, the Haudenosaunee and the Wendat peoples and is now home to many diverse First Nations, Inuit and Métis peoples. We also acknowledge that Toronto is covered by Treaty 13 with the Mississaugas of the Credit First Nation.

As we have attendees from across Ontario, the IESO would also like to acknowledge all of the traditional territories across the province, which includes those of the Algonquin, Anishnawbe, Cree, Oji-Cree, Huron-Wendat, Haudenosaunee and in addition to the Métis and Inuit peoples.

Engagement Principles

This engagement is conducted in accordance with the IESO's [External Engagement Framework](#), which includes the following principles:

- **Purposeful** – Initiate meaningful conversations that move the sector forward
- **Inclusive** – Invite many voices and diverse perspectives to the table
- **Timely** – Seek input and insight when it can have the most impact
- **Accessible** – Ensure we meet people where they are on their energy journey
- **Traceable** – Allow everyone to follow the path that is being taken
- **Transparent** – Show how engagement helped shape the final outcome

Shared Commitment to Respectful Participation

To support a focused and constructive discussion:

- We will take questions one at a time; please use the raise-hand feature to enter the speaking queue
- We encourage concise and focused comments to allow time for multiple perspectives
- Participants are encouraged to raise relevant points during the discussion and provide more detailed feedback through the written submission process
- We ask that all participants maintain a respectful and professional tone throughout the session
- Facilitators will guide the discussion and manage participation to stay aligned with today's focus and agenda
- Where necessary, we may disable a participant's microphone to manage participation

Information Session Recording and Webpage

- Today's session will be **recorded** and available for viewing online
- **Meeting materials** are posted on the Public Information Session webpage created for this topic
- Please visit the Public Information Session's webpage [here](#)

Meeting Logistics and Participation

- For questions and comments, click on the “**raise hand**” icon (hand symbol) at the top of the application window. This will indicate to the host you would like to speak
- To **unmute** audio, click on the microphone icon at the top of the application window
- Audio should be **muted** when not speaking
- **Connection issues** contact engagement@ieso.ca or Microsoft Office Support directly

Purpose and Agenda

Purpose: To provide the sector with an update on the IESO's ERP DER Project which includes the following components

Agenda:

- DER Integration Project overview
- Data Sharing Plan
- Upcoming DER Technical Sessions
- Next Steps and Key Dates

Enabling Resources Program Overview

The Enabling Resources Program (ERP) is a set of integrated projects that will further enhance the renewed market.

ERP's proposed changes will unlock new opportunities for storage, hybrid, and distributed energy resources to compete, helping to meet system needs in a reliable and cost-effective manner.

ERP will benefit the sector by supporting grid reliability, increasing economic efficiency and encouraging resource innovation.

Resource Types



Electricity Storage
("Storage")



Hybrid Generation-
Storage Pairings
("Hybrids")



Distributed Energy
Resources (**DERs**)

DER Integration Project

Drivers for change:



As demand for electricity grows, DERs can play an important role in **cost effectively meeting system needs**.



Policy direction set by Ministry of Energy and Mines to **plan, acquire, and enable DERs**.

The initiative creates opportunities for DER operators and Local Distribution Companies (LDCs) to drive local energy solutions while contributing valuable services that strengthen the provincial grid and deliver long-term benefits.

Phase 1

- ✓ Report back on Integrated Energy Plan Directive 14.1
- ✓ Bi-directional operational visibility

Phase 2

- ✓ New market participation models, including transmission-distribution operational coordination
- ✓ Static planning data

Project Overview

As the DER Integration Project enters its design phase, ERP intends to:

Collaborate with LDCs

to identify DER data sharing requirements, determine appropriate exchange mechanisms, and jointly develop transmission-distribution coordination protocols, along with transition plan considerations

Continue ongoing collaboration with the OEB

to identify opportunities to align regulatory requirements with emerging DER data sharing needs, including timing and transition plan considerations

Complete the ERP DER data sharing and participation model design,

including detailed requirements and mechanisms for implementation



DER Data Sharing Plan

Data Sharing - Report Back on IEP Directive 14.1

Integrated Energy Plan

[Implementation Directive for the IESO](#)

The IESO reported to the Ministry on opportunities to advance DER data sharing in Ontario. Specifically, the report back outlined:

- ✓ High priority, near-term operational and planning data sharing needs and proposals for how to address them.
- ✓ Articulated a plan for data sharing within the IESO's Enabling Resources Program.
- ✓ Was informed by input from electricity distributors and other stakeholders, as appropriate.



Report back filed March 31, 2026

Data Sharing Principles

ERP's DER Data Sharing Plan aims to advance near-term data sharing among the IESO, LDCs, and DER/A Providers to:

- Maintain transmission system reliability.
- Support distribution system reliability.
- Facilitate wholesale market participation and access for DERs.

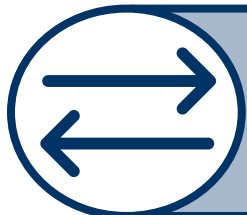
The DER Integration Project will align with other leading related but distinct IESO data sharing initiatives.

High-Priority, Near-Term Data Sharing Needs



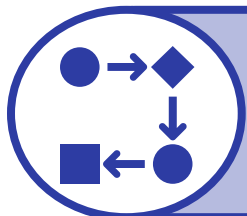
Static Planning Data

Infrequently changing resource and system data is needed by the IESO to forecast demand and model the bulk system. These needs will grow as DER activity and local opportunities increase to maintain accurate bulk system models and forecasts.



Bi-Directional Operational Visibility

Two-way, real-time communication of material system conditions between the IESO and LDCs enables both to maintain situational awareness and independently take action to prevent or mitigate cascading impacts from adjacent system events.



Operational Coordination

Shared protocols and procedures between the IESO and LDCs will support coordinated real-time operations while allowing each to maintain authority over their own systems, markets, and/or programs.

Data Sharing Plan

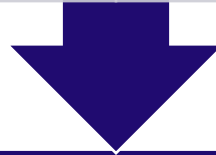
Develop TD coordination framework and near-term data sharing requirements

Near-term Approach

Focus on technical capabilities, operational needs, and communication interfaces between functional entities

Long-term Flexibility

Provides space for the regulatory framework to evolve, informed by the OEB, LDCs, and DER stakeholders



Advance and enable TD coordination and near-term data sharing

Near-term Approach

Leverage and adapt existing IESO tools and processes

Long-term Flexibility

Allows future sector development and adoption of advanced data sharing solutions

Functional Model for TD Coordination

ERP's Data Sharing Plan approaches TD coordination through a functional lens

- Will introduce a set of functional entities for coordination & data sharing, each fulfilling a distinct purpose
- Explore the “what”, “when”, and “why”, without prescribing “who” or “how”

ERP will remain agnostic to TDWG's proposed coordination models; these are expected to be further examined through the OEB's DSO Capabilities consultation.

Market Coordinator Entity

Functions as the point of contact between the IESO and a DER/A market resource

- Submits dispatch data and communicates emergent operating issues for a DER/A
- Provides flexibility to accommodate different allocations of roles for TD coordination, including both “dual participation” and “market facilitator” DSO models



DER Technical Sessions

Engagement Approach for ERP's DER Project

The DER Project receives sector feedback via multiple engagement channels, including:



Targeted Outreach or Technical Sessions with LDCs, DER developers, DER aggregators, and industry associations in a 1:1 or small group format to inform the IESO's approach and understand stakeholder needs.



Public engagement meetings obtain feedback on the proposed DER data sharing plan from the broader stakeholder community.

ERP's DER Technical Sessions

IESO has been working with the EDA, LDCs, aggregators and other service providers who have expertise in the technical matters in scope for these sessions to help answer specific design questions for the DER design and participation models.

The focus of the Technical Sessions will include:

1. DER data sharing
2. Transmission-Distribution coordination
3. Market Settlements for DER/As

Purpose: DER Technical Sessions

Engage with LDCs early to ensure that they are aware of ERP's activities and have sufficient opportunity to inform ERP's decision-making process

- Discuss technical capabilities needed to meet operational needs while considering applicability and/or materiality
- Ensure design encompasses mutually beneficial structure to support Tx/Dx reliability with fair and open access to wholesale market participation
- Ensure design is technically feasible and implemented alongside a transition plan which considers distribution sector and regulatory evolution
- Outcomes will be included in the DER Integration Project public engagement sessions



Next Steps

Feedback and Next Steps

Today's session was intended to share information with participants on DER activities and next steps. If participants have feedback or comments on today's topics, please use the feedback form on the [ERP DER Project engagement webpage](#) and submit to IESO Engagement at engagement@ieso.ca by **May 8, 2026**.

Upcoming Timeline:

- May 1, 2026: Introductory DER Technical Session
- May-October: Additional DER Technical Sessions
- Q3-2026: Next DER Project Public Engagement Session

Thank You

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