



DECEMBER 8, 2023

TDWG Meeting #9 Introduction

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Today's Agenda

The agenda for today's meeting is:

- Introduction materials ('housekeeping') [5 min]
- Deliverable B2: Current state of communication / data exchange [45 min]
- Break [10 min]
- Deliverable B4: Workshop on key definitions for TDWG Deliverables [1.5 hour]

As usual, TDWG will have an opportunity to provide feedback during and following the meeting.

Action Log

Date	Action	Resolution
Oct 27, 2023	IESO to circulate meeting notes among TDWG members by Nov 3, 2023	Notes circulated Nov 3, 2023
Oct 27, 2023	TDWG members to provide comments and send to engagement@ieso.ca by Nov 17, 2023	2 submissions received
Oct 27, 2023	IESO to post all meeting materials to the TDWG webpage by Nov 24, 2023	Materials posted on Nov 21, 2023
Dec 8, 2023	IESO to circulate meeting notes among TDWG members by Dec 15, 2023	
Dec 8, 2023	TDWG members to provide comments and send to engagement@ieso.ca by Jan 5, 2024	
Dec 8, 2023	IESO to post all meeting materials to the TDWG webpage by Jan 12, 2024	

TDWG Overview (Recap)

- T-D coordination is needed to better integrate distributed energy resources and aggregators (DER(A)) in the IESO's wholesale market and system operations as well as in distribution networks
- Local distribution companies (LDCs), DER(A) participants, and IESO will need to share information in a timely manner and ensure there is sufficient awareness (e.g., with respect to outages, limits on DER(A), and dispatch of DER(A), etc.) among the parties
- In this context, the IESO launched the Transmission-Distribution Coordination Working Group (TDWG) in 2022 to work closely with LDCs and other stakeholders
- TDWG's objective is to support the development of operational coordination protocols
- The coordination protocol(s) are expected to form the basis of new rules and/or manuals for the IESO's wholesale market that will support the DER(A) participation

T-D Protocol Scenarios (Recap)

- The protocols will detail the actions to be taken and data to be shared by the parties, ensuring the effective and reliable operation as DER(A):
 - participate in IESO's wholesale market (i.e., day-ahead and real-time markets post-MRP*)
 - may provide services to the distribution system as non-wires alternatives (NWA)
- The TDWG aims to outline operational coordination for the following scenarios:

1. DER(A) providing **wholesale services** as per the IESO Market Vision Project

2. DER(A) providing services to the distribution system as **distribution NWAs**

3. DER(A) that provide **both** wholesale and distribution **services**

4. DERs that are **not** actively **participating** in any services

* Market Renewal Program (MRP)

Past TDWG Meetings

Meeting #	Date	Major Topic(s)
1	Jan 2022	Introductory and background materials
2	May 2022	T-D definition and coordination models
3	Jun 2022	Override, outage, and IESO market processes
4	Sep 2022	New York's coordination manual
5	Nov 2022	Draft protocol for a Dual Participation model
6	Feb 2023	Draft protocol for a Total DSO model
7	Jun 2023	DSO operational functions workshop
8	Oct 2023	Draft Deliverables statements of work

Mtg #8 Feedback – Meeting Recordings

Feedback

Recording or transcription is welcomed if it supports a more descriptive note taking process and is not shared publicly.

Deliverable Leads' Responses

Thank you for the additional feedback. The IESO team will start recording the TDWG sessions for informational purposes of the Deliverable Leads in developing the Deliverables. The recordings will not be made public. A TDWG member's comments will only be attributed in the Deliverables products with their explicit consent.

Mtg #8 Feedback – General Comments

Feedback	Deliverable Leads' Responses
<p>The definitions that relate to the 'unit' for T-D coordination need clarification, e.g., 'Local Distribution Area,' 'Service Territory,' or 'Transmission Supply Point'. A consideration that requires great attention is that multiple distributors may be represented at the T-D interface.</p>	<p>Thank you for highlighting this important point. The related definitions will be discussed in detail at the workshop today.</p>

TDWG Expected Deliverables

By the end of 2024, the TDWG will work to achieve the following:

Deliverable	Description	Leads	Sub-Group
A. Coordination Protocols	Develop implementation-ready protocols for Total DSO and Dual Participation coordination models	IESO	Hydro One, Essex, Alectra
B1. Functional Assessment	Analyze distributors' operational functions, capabilities, and costs across multiple dimensions	Toronto Hydro + Alectra	Elexicon, Rodan, NSWG*, IESO, Powerconsumer
B2. Communication Assessment	Map coordination interfaces and data exchanges for each coordination model	Hydro One	Alectra, Essex, IESO, NSWG
B3. Shared Platform Concept	Develop concept for a "one-stop" shop data sharing platform for coordination	Alectra	Hydro One, IESO, Rodan, Powerconsumer
B4. Architectural Assessment	Assess coordination models from market design, architectural, and flexibility perspectives	IESO	Essex, Alectra, Rodan

* Non-wires Solutions Working Group (NSWG), represented by Power Advisory

Mtg #9 Feedback Questions

For Deliverable B2: Current state of communication / data exchange

- Are there other communication methods and protocols that you are using, that were not identified in this presentation?
- Does your company have a defined IT roadmap looking ahead 10+ years?
- Does your utility currently have ICCP linkages with IESO, Hydro One or other utilities?

For Deliverable B4: Workshop on definitions for TDWG Deliverables

- Do you have detailed comments on any of the definitions in the “Working Terms and Definitions” document?

Please use the feedback form found under the Dec 8, 2023 entry on the TDWG webpage to provide feedback and send to engagement@ieso.ca by Jan 5, 2024

Thank You

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