

Feedback Form

Transmission-Distribution Coordination Working Group (TDWG) – June 29, 2022

Feedback Provided by:

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Following the May 16th Transmission-Distribution Coordination Working Group meeting, the IESO is seeking feedback on a number of questions related to transmission-distribution coordination.

Please provide feedback by July 20th, 2022 to engagement@ieso.ca. Please use subject header: *TDWG*. To promote transparency, this feedback will be posted on the [TDWG webpage](#) unless otherwise requested by the sender.

The IESO will work to consider and incorporate comments as appropriate and provide responses at the next TDWG meeting. Thank you for your contribution.

Specific Questions for Comment/Feedback

Topic	Feedback
Any suggestions for additional topics needed in order to develop the TDWG deliverable (which was described in greater detail today)?	We believe that the TDWG has not yet had the opportunity to provide constructive input, which will affect the deliverable. In future sessions we need to find ways to collaborate and develop / augment existing processes or frameworks to support the deliverable. This collaboration could be in the form of group brainstorming or storyboarding activities etc.
<i>What existing/new processes could distributors use to communicate distribution "override" conditions to customers with DER facilities and DER aggregators that are participating in the wholesale market?</i>	A new process could be developed, that would include the Sub-transmitter aggregating data (MW flows) from the downstream LDC's (at D-D interface), and provide the IESO with any constraints. If constraints are realized within the embedded LDC's, this constraint message could be sent through the Sub-transmitter and cascaded to IESO or could be sent directly to IESO. In this model, all constraints along the system (Substation-> Sub-transmission feeders -> LDC) would be considered. At the D-D interface, there is typically a meter. This meter could be SCADA enabled to send values back to the Sub-transmitter. Some LDC's already have SCADA interfaces (ICCP) to the Sub-transmitter, so these would just be additional data points.
The ESIG example of DER De-Rate Notification is expected to inform the IESO's drafting of conceptual T-D coordination protocols for discussion at a future TDWG session. Any considerations you advise we bear in mind?	In the ESIG example it mentions "...and may subject the DERA to uninstructed deviation charges". Would this mean that the DER would pay a penalty, even though their inability to produce was caused by an equipment outage within the host LDC?
Can the approach described in the ESIG example of DER De-Rate Notification be extended (with tweaks/additions) to address coordination of DERs "stacking" distribution and wholesale services?	We feel this could be possible, but more specific examples would need to be discussed.

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<p><i>The conceptual T-D coordination protocols for enabling DERs to "stack" services may involve the distribution-level decision to use DERs for NWAs taking place in advance of the IESO's day-ahead market and real-time market processes. How would this align with distribution-level processes/needs?</i></p>	<p>DER services and NWA's could alleviate physical constraints (thermal, voltage etc) within LDC's territory. Reliability of NWA's would need to be discussed in detail to assure DER services are available to the LDC and Transmitter when required.</p> <p>It was mentioned that the D-D interface will only be discussed during override conditions, but will not be discussed or considered for "DER Stacking" of services. We believe that the D-D interface must be considered for all TDWG topics. The D-D interface could impact the value stacking, if the Sub-transmitter begins to rely on the DER services within the LDC, to mitigate capital investment on the Sub-transmission system. For example if the DER penetration offsets or lowers the load within an embedded LDC, this will help lower the load on the Sub-transmitters system, and could negate further enhancements/ investments on the Sub-transmitters system.</p>

General Comments/Feedback