

Ongoing TSO/DSO Coordination Project Update

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Background – Project Description

- Throughout the multi-year DER effort, the NYISO has worked closely with the Joint Utilities (JU) of New York to develop processes that will facilitate DER participation in the wholesale markets. The NYISO recognizes that bulk system and distribution system operational coordination and situational awareness are necessary to successfully integrate DER. The NYISO must continue working with the JU as well as Long Island Power Authority (LIPA), New York Power Authority (NYPA), Municipal Utilities, and Electric Cooperatives to finalize coordination details in preparation for DER participation in Q4 2022
- This project will ensure that the NYISO and the New York transmission operators will have the proper tools, communication protocols, and procedures in place to maintain reliability as the penetration of DER on the grid increases.

Coordination Efforts

Transmission Nodes

- **The NYISO has been working with the applicable Member System individually to identify Transmission Nodes**
- **At this time, the total number of Transmission Nodes identified in the NYCA is 115**
 - The NYISO does not expect the final number of Transmission Nodes to change significantly prior to implementing the participation model

Transmission Nodes (cont'd)

- **The NYISO and Member Systems have been considering the following (but not limited to) system conditions when identifying Transmission Nodes:**
 - Transmission and/or distribution operational load pockets
 - Thermal limits of lines and protective equipment
 - Franchise demarcations between Member System service territories
 - Concentration of Load relative to total average system Load
 - Distribution area substation topology
- **The list of Transmission Nodes will be presented in Q1 2022**
 - The NYISO does not expect the final number of Transmission Nodes to change significantly from the number listed on this slide prior to implementing the participation model

Load Zone	Transmission Nodes
A	17
B	9
C	19
D	3
E	18
F	22
G	5
H	2
I	3
J	10
K	7

Enrollment and Review Periods

- **The NYISO and Joint Utilities have discussed the dynamics of the 60-day Distribution Utility review process extensively**
- **Provided that the FERC accepts the NYISO's proposed 60-day review period for Distribution Utilities, automated timelines in the NYISO's aggregation management systems reflect the 60-day duration**
 - Actual review of individual DER may not necessarily require the entire 60-day period to complete.
 - The NYISO continues to require a 30-day review period immediately following the DU review period

Enrollment and Review Periods (cont'd)

- **NYISO and the Joint Utilities have discussed an up to four-month facility enrollment timeframe to wholesale market participation**
- **Pework**
 - Customer (Aggregator) Registration
 - Individual Facility (DER) Interconnection (NYISO or Utility)
- **Month 1 – Aggregation Formation in NYISO System**
 - Facility and Aggregation Data Upload
 - Assignment of Facilities to Aggregation
- **Month 2 & 3 – 60 Day Utility Review**
 - Applicable DU reviews Aggregation based on enrollment data and existing interconnection agreements
- **Month 4 – NYISO Review Period**
 - Duplication, Classification (CLR/ELR), and NYISO staff review
 - Aggregation Communication Testing
- **Market Participation**

Duplicative Compensation

- The NYISO and the Joint Utilities have worked together to create a framework to prohibit the participation of resources through an Aggregator that are receiving compensation for the same services as part of another program
- NYISO's Order No. 2222 compliance filing proposed to effectuate this requirement via an Aggregator self-attestation that its DER are not providing the same service(s) in a retail market and/or program

Duplicative Compensation (cont'd)

- NYISO is collaborating with the Joint Utilities to develop a services compatibility document identifying retail market services that conflict with wholesale market services to prevent double counting

Example compatibility Matrix

		ISO and DSO Programs/Services				
		DSO_P1	DSO_P2	DSO_PX	ISO_P1	ISO_P2
ISO and DSO Programs/ Services	DSO_P1					
	DSO_P2	Compatible				
	DSO_PX	Compatible	Incompatible			
	ISO_P1	Partial	Compatible	Incompatible		
	ISO_P2	Compatible	Partial	Incompatible	Compatible	
	ISO_PX	Compatible	Incompatible	Incompatible	Compatible	Incompatible

Source: EPRI TO/DSO WG

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- **The NYISO has been contributing to ongoing efforts at the New York Department of Public Service to consider a Distribution System Platform to help enable a retail DER marketplace**
- **The NYISO has supported these efforts by providing background information on current and planned wholesale market rules and advocating for distribution designs consistent with the ISO's core mission of maintaining a reliable grid and efficient markets**

2022 Plans

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- **NYISO DER deployment is still anticipated for Q4 of 2022**
 - The DER deployment timeline may be impacted by FERC Order(s) on the NYISO's Order No. 2222 compliance filing
- **This project and current coordination efforts will continue in 2022 with a focus on:**
 - Facility enrollment
 - Metering and communications infrastructure and configurations
 - NYISO administrative and operational manuals
 - Aggregation program manual and supporting modifications to existing manuals

Questions?

Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system

