

DER Aggregation Manual - Transmission Nodes

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Today's Meeting

- **Overview of the Aggregation Manual, Transmission Node sections**
- **Attachments**
 - Identified Transmission Nodes
 - Generator Node proxy prices

Aggregation Manual

- **The Aggregation Manual is a new ISO Manual that will cover topics and information specific to Aggregations**
 - Coordination roles and responsibilities DAM/RTM
 - Aggregation operations
 - Operations timeline
 - Registration & enrollment guidance
 - Roles & responsibilities
- **Today's discussion is limited to the section on Transmission Nodes posted along with this presentation**

Transmission Nodes Manual Sections

- **Transmission Node identification**
 - System topology considerations
- **Transmission Node changes**
 - Transmission Node change timeline
- **Facility Designation to a Transmission Node**
- **Aggregator Responsibilities**

Transmission Node Identification

- **Transmission Node shall be limited to a single Member System service territory and shall have at least one identified Transmission Node.**
- **The distribution system topology considerations identified below, along with each Member System's good utility practices, will guide Transmission Node identification:**
 - Transmission and/or distribution load pockets
 - Thermal limits of lines and protective equipment
 - Boundaries between Transmission Districts
 - Concentration of load relative to total average system load
 - Distribution area substation topology
- **The topology of each Member System is unique and therefore not all factors may apply**
- **Transmission Nodes shall be named for the substation of the identified Load bus along with the voltage class of the station**

Transmission Node Changes

- **The NYISO may add Transmission Nodes when there is a change in the underlying system topology within the electrical area that requires dividing the electrical facilities behind a single Transmission Node into two (or more) Transmission Nodes**
- **Two or more Transmission Nodes may be consolidated to a single Transmission Node when the NYISO and applicable Member System determine that underlying system conditions have changed such that the existing Transmission Nodes are no longer needed to represent the system's electrical characteristics**

Transmission Node Change Timeline

- **The NYISO will annually review the identified Transmission Nodes with each Member System to determine whether changes are necessary. The results of the annual review will be published at least 90 days prior to the beginning of the Capability Year and effective on the first day of the capability year**
 - Pursuant to the rules accepted in the Commission's 2020 DER Order, the NYISO will post any changes to the set of Transmission Nodes at least ninety days prior to the start of a Capability Year. This timing may change depending on the Commission's Order in Docket No. ER21-2460

Facility Designation to a Transmission Node

- **The applicable Member System for the territory to which the DER is interconnected will designate the appropriate Transmission Node for the DER.**
- **Member Systems shall provide Aggregators with an explanation of why a DER is attributed to a particular Transmission Node.**

Aggregator Responsibilities

- **Aggregators will work with the applicable Member System to determine the ISO-identified Transmission Node, to which each individual DER is connected.**
 - The Aggregator is responsible for certifying their Aggregations and each associated DER are designated to the correct Transmission Node
- **After the ISO modifies the list of Transmission Nodes, the Aggregator may re-enroll affected DER in a new Aggregation utilizing the applicable Transmission Node.**
- **Any disputes arising out of the designation of a DER to a Transmission Node shall be resolved pursuant to Services Tariff Section 11.**

Posted Nodes and Proxy Generator Nodes

- **Posted with this presentation is the list of the Transmission Nodes for the deployment of the DER and Aggregation Participation Model**
- **Accompanying the Transmission Nodes is also a list of generator nodes that can be used as a proxy for the Transmission Node LBMP**
 - This list is informational and is no guarantee of future Transmission Node LBMPs

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Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation

Questions?