

Metering, LBMP Calculation, and Creditworthiness Tariff Amendments for DER

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Agenda

- **Review Tariff Revisions for DER in**
 - Market Services Tariff Section 13
 - Review MSE Design
 - Market Services Tariff Section 17
 - Market Services Tariff Section 26
- **Additional procedures and processes will be included in the ISO Procedures where necessary**
- **Note: Services Tariff posted along with this presentation has text in it that is highlighted in gray, this is language that was filed for Energy Storage Resources**

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Metering: MST 13

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Review: MSE Construct Background

- Services Tariff Section 13 establishes the basic metering requirements for all Customers taking service from the ISO
- NYISO is revising Section 13 to include rules that will allow DER and Demand Side Resource Aggregators and Curtailment Service Providers (CSPs) to use either (i) the applicable Member System, or (ii) a Meter Services Entity
 - Metering constructs for all other Resources remain the same
- New rules will replace the existing MSP/MDSP constructs used for the NYISO's demand response programs
- Aggregators and CSPs may use authorized MSEs to provide metering and meter data services for its Aggregations, and will be responsible for any financial compensation paid to the MSE for the services it provides

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Tariff Revisions

■ General Requirements (Sec. 13.1)

- Will require Aggregations and individual resources within an Aggregation to have adequate metering for reliable operation of the NYS Power System
 - Matches existing requirement for Generators and Loads

Tariff Revisions (cont'd)

- **Requirements Pertaining to Customers (Sec. 13.2)**
 - Customers are required to provide meter data and information to the ISO as needed for the ISO to fulfill its responsibilities under the Services Tariff and in accordance with the Market Power Monitoring Program
 - Revisions establish that real-time telemetry will be included in the meter data required by the ISO
 - Real-time telemetry shall be provided every 6 seconds

Tariff Revisions (cont'd)

- **Third Party Metering Services (Sec. 13.2.3)**
 - Section deleted; replaced by new Sec. 13.3
- **Metering Requirements for Aggregations and Demand Side Resources (Sec. 13.3)**
 - New Section that establishes the responsibilities for:
 - Metering and Meter Data Services for Aggregations and Demand Side Resources; and
 - Meter Services Entities

Tariff Revisions (cont'd)

- **Meter and Meter Data Services for Aggregations and Demand Side Resources (Sec. 13.3.1)**
 - Market Participant must obtain metering and meter data services from either the applicable Member System or authorized MSE
 - Market Participant will be able to serve as its own MSE if it meets eligibility requirements
 - Market Participant will be responsible for ensuring all data required by the ISO's tariffs and Procedures are provided to the ISO, and will be responsible for any penalties or sanctions issued as a result of metering or meter data deficiencies
 - Market Participant will be responsible for any payments for metering and/or meter data services provided by the MSE or Member System
 - New Rate Schedule 9 will establish the cost recovery mechanism for the costs of administering the MSE rules
 - Market Participants will be responsible for covering their portion of MSE costs

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Tariff Revisions (cont'd)

- **Meter Services Entity Requirements (Sec. 13.3.2)**
 - An entity must be authorized as an MSE prior to providing metering and/or meter data services (Sec. 13.3.2.1.1)
 - NYISO will review each entity's application to determine whether the entity meets the basic requirements to be a MSE
 - MSE will have opportunity to amend its application or provide additional supporting information if necessary to meet requirements

Tariff Revisions (cont'd)

- **Meter Services Entity Requirements (Sec. 13.3.2) (cont'd)**
 - Section 13.3.2.1.2 identifies the information required to establish MSE eligibility, including
 - General business and financial requirements,
 - MSE-specific criteria, such as Validation, Estimation, and Editing (VEE) plans, security plans, a description of testing facilities, and
 - the entity's agreement to be subject to NYISO audit and oversight
 - Once authorized, a MSE must inform the NYISO of material changes to the information establishing its eligibility (Sec. 13.3.2.1.3)
 - NYISO shall inform registered MSEs of any changes to eligibility requirements, and work with MSEs to ensure compliance with changes (Sec. 13.3.2.1.4)

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Tariff Revisions (cont'd)

- **Meter Services Entity Requirements (Sec. 13.3.2) (cont'd)**
 - MSEs are obligated to treat all customers on a non-discriminatory basis (Sec. 13.3.2.2)
 - NYISO (or its designate) will have the authority to audit, inspect, or test MSE metering facilities, meters, and/or meter data records to ensure compliance (Sec. 13.3.2.3.1)
 - If the NYISO determines that a MSE is not in compliance it will have the authority to suspend or revoke the MSE's authorization (Sec. 13.3.2.3.2)

LBMP Calculation: MST 17

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Revisions Throughout MST 17

- **Ministerial edits were made to incorporate the concept of Aggregations**
 - Includes changing some instances of “Generator” to “Supplier,” or;
 - “Inject” or “generating” with “provide” or “providing”
 - “Generation” with “supply”
 - Adding “...and Aggregations...”
 - Adding “...and Transmission Nodes...”

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MST 17.1.3

- This section discusses the Day-Ahead LBMP Calculation Procedures
 - Inclusion that all Aggregations (and ESRs) are blocked on at the dispatch determined in Pass 1 of SCUC for passes 2-4
 - Pass 1 is a least cost *commitment* and dispatch to meet *Bid* Load
 - Pass 2 is a least cost *commitment* and dispatch to meet *forecast* Load that minimizes the cost of Minimum Generation and Start Up Bids given the revenues calculated in Pass 1
 - Pass 3 is reserved
 - Pass 4 is a least cost *dispatch* to *forecast* Load used for operational purposes providing a dispatch to Fixed Block Units, Imports, Exports and non-Fixed Block Units where Incremental Import Capacity committed in Pass 2 is re-evaluated

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Creditworthiness: MST 26

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Revisions Throughout MST 26

- Removal of “Demand Side Resource” / DSR specific program requirements
 - DADRP/DSASP

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Feedback?

- Email additional feedback to:
DER_Feedback@nyiso.com



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- Planning the power system for the future
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