

DER Market Design – 205 Filing Concepts Discussion Continued

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Agenda

- **Background & Overview**
- **DER 205 Filing Concepts**
- **Next Steps**

Background & Overview

- The NYISO filed its DER Market Design on June 27, 2019.
- FERC accepted the NYISO's proposed DER Market Design in January 2020.
- The NYISO has since worked towards deployment of the market design, in tandem with its FERC Order No. 2222 compliance initiative.
- Throughout the implementation process, the NYISO has identified areas in its previously accepted tariff where revisions are necessary to:
 - Clarify previously accepted concepts
 - Align the tariff with the NYISO's software implementation
- NYISO will submit a FPA 205 filing to FERC containing these revisions to become effective on deployment of DER in 2023.
- Today's presentation will further explain a subset of concepts to be addressed in the 205 filing.
 - The NYISO introduced these concepts at the October 7, 2022, ICAPWG except as noted

205 Filing Concepts Reviewed

Concepts Addressed at the October 7, 2022, ICAPWG

- **NYISO will proceed with drafting tariff to support the following:**
 - Station Power
 - Meter Data Submission
 - References to DSASP/DADRP
 - MST 4.5.2.4
 - MST 2.13
 - MST 13.3
 - Charging at Retail for Withdrawal-Eligible Generators in an Aggregation
 - TSC/NTAC applicability to Aggregations
 - Uplift Reporting
 - Aggregation Reference Levels
 - BPCG and DAMAP Equations
 - ECBL Proxy Load Calculation
 - Wind and Solar Output Limit Definition
 - Interconnection Agreement Compliance
 - DER/Aggregation Separation from Wholesale Market Participation
 - Resources Swapping Aggregations

205 Filing Concepts For Continued Discussion

Concepts for Discussion and Review

- **Today's material includes review of the following concepts, to be discussed prior to drafting supporting tariff:**
 - NYISO Transfer of Data to the Distribution Utility
 - Telemetry Data
- **To be discussed at a future presentation:**
 - Aggregations and Meter Authorities
 - SCR Transition
 - DER Minimum Capability

NYISO Transfer of DER Data to the Distribution Utility

- Order No. 2222 required NYISO to design a framework by which the Distribution Utility to whose facilities a DER is connected can review each DER's intended wholesale market participation prior to enrollment.
- The NYISO undertook the design of said framework with the Joint Utilities to produce tariff revisions compliant with Order 2222.
- DER will be permitted to participate in the NYISO market beginning in 2023 – the NYISO recognizes the importance of maintaining distribution system reliability and safety during the interim period prior to the deployment of the framework contemplated under Order 2222.
- The NYISO's tariff and manuals will be updated for the 2023 DER deployment to reflect the core components of a distribution utility review process.
 - Importantly, this process is not intended to be Order No. compliant. The tariff and manuals will establish the infrastructure and procedures that support Order No. 2222-compliant rules and procedures when effective

NYISO Transfer of DER Data to the Distribution Utility

- **Tariff and manual modifications to be captured to support a distribution utility review of DER intending to participate in an Aggregation beginning in 2023:**
 - NYISO will collect physical and operating characteristics from the Aggregator about each DER/Aggregation
 - NYISO will share physical and operating characteristics about each DER/Aggregation with the applicable DU
 - The DU will conduct a review of applicable DER to ensure reliability and safety of the distribution system
 - The DU will share review results with the NYISO, who will transfer the results to the Aggregator
 - Upon any change to an enrolled DER/Aggregation, the NYISO will provide the physical and operating characteristics to the applicable DU

Not reviewed at the
10/7/22 ICAPWG

Telemetry Data

- **The NYISO's accepted 2019 DER market design outlined the following required 'channels' of telemetry data to be communicated by the Aggregator:**
 - Real-time telemetry for DER Aggregations shall consist of three parts: (i) the net of Energy injections and Energy withdrawals by Withdrawal Eligible Generators, (ii) Demand Reductions; and (iii) the sum of both (i) and (ii).
- **The NYISO will require separate channels to reflect the Energy injects and Energy withdrawals, rather than a single, Net channel.**
 - NYISO requires the aggregate-level injection and withdrawal separately, as some DER within an Aggregation may be injecting energy onto the grid while other DER in the Aggregation may be withdrawing energy from the grid
 - NYISO will revise the tariff to require the following channels of Real-time telemetry from each Aggregation:
 - Energy Injections
 - Energy Withdrawals
 - Demand Reductions
 - Net Response

Next Steps

Next Steps

- NYISO will return to ICAPWG through the remainder of 2022 and the beginning of 2023 to review and finalize concepts and associated tariff language.
- NYISO currently targets seeking approval from BIC and MC in January, 2023.
- NYISO will seek an effective date for the tariff changes that is consistent with the implementation schedule for the 2019 market design.
- Please send any questions that were not addressed during this presentation to: DER_Feedback@nyiso.com

Our Mission & Vision



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?