

Incremental DER Changes to the NYISO MST and OATT since January 26 MIWG/ICAPWG

In response to stakeholder feedback, the NYISO provides this document containing the proposed Distributed Energy Resource tariff changes to the NYISO Services Tariff and OATT described by the Joint Utilities at the February 7, 2023, MIWG/ICAPWG, as well as other ministerial wording revisions. The highlighted redlines below reflect the changes to the Services Tariff and OATT that have been proposed since last presented at the January 26, 2023, MIWG/ICAPWG.

OATT Section 24

24.2 Measurement of Actual Demand Reduction of Individual Distributed Energy Resources within a DER Aggregation

For the purposes of Demand Reduction calculations described in this Section, the metered load values of Distributed Energy Resources shall be zero or greater. The measured amount of Demand Reduction for each 6-second interval by an individual Distributed Energy Resource within a DER Aggregation which is dispatched for Energy with no Regulation Service shall be the greater of: (i) the Distributed Energy Resource's adjusted Economic Customer Baseline Load ("ECBL") for each five-minute interval, which shall be calculated in accordance with section 24.2.1 and ISO Procedures, minus the actual telemetered load for each 6-second interval and (ii) zero.

The measured amount of Demand Reduction for each 6-second interval by an individual Distributed Energy Resource within a DER Aggregation which is dispatched for Regulation Service shall be the greater of: (i) the Distributed Energy Resource's Baseline Load for each 6-second interval of Regulation Service, which shall be calculated in accordance with section 24.2.2 and ISO Procedures, minus the Distributed Energy Resource's telemetered telemetered load values for each 6-second interval and (ii) zero.

The amount of Demand Reduction supplied by a DER Aggregation shall be the sum of Demand Reductions from each individual Distributed Energy Resource within the DER Aggregation. Aggregators shall provide ~~to the ISO these~~ DER Aggregation Demand Reductions ~~to the ISO~~ for (i) each 6-second interval using real-time telemetry in accordance with Services Tariff ~~s~~Section 13 and the ISO Procedures, ~~and (ii)—Aggregators shall provide the DER Aggregation Actual Demand Reductions, determined based on each hour using~~ revenue-quality meter data, ~~to the ISO~~ pursuant to this section 24.2, and in accordance with the ISO Procedures.

24.2.1 Methodology for the Calculating the Economic Customer Baseline Load for a Distributed Energy Resource within a DER Aggregation during Intervals with no Regulation Service Dispatch

The ISO shall employ two different calculation methodologies of the Economic Customer Baseline Load (“ECBL”) for Demand Reductions, depending on whether the Demand Reduction is on a weekend or a weekday, during the intervals with no Regulation Service dispatch for the DER Aggregation. A Demand Side Resource’s six-second telemetry data, normalized into five-minute intervals, shall be used in each ECBL calculation methodology.

ECBL In-Day Adjustment Factor: The ECBL In-Day Adjustment shall be an adjustment that is applied to the ECBL for each five-minute interval.

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- a) Calculate the ECBL In-Day Adjustment by subtracting the average of the ECBL over the three five-minute intervals of the ECBL In-Day Adjustment Period from the average of the **tele**metered load for the same three five-minute intervals, provided that (i) the DER Aggregation was not dispatched for Energy and/or Regulation Service during any of three five-minute intervals of the ECBL In-Day Adjustment Period, or (ii) the DER Aggregation was dispatched for Energy and/or Regulation Service during one or more of the three five-minute intervals of the ECBL In-Day Adjustment Period, but the LBMP for each of those interval(s) was less than the applicable Monthly Net Benefits Threshold in any of the three five-minute intervals of the ECBL In-Day Adjustment Period.

Proxy Load: The Proxy Load for a five-minute interval is the ~~adjusted ECBL for that interval calculated as per the instructions in Section 24.2.1.2 or 24.2.1.3~~ **tele**metered Load plus measured Demand Reductions.

24.2.1.2 Methodology for the Calculating the Economic Customer Baseline Load for Demand Reductions on a Weekday

To determine the ECBL for a five-minute interval (a “Target Interval”) that occurs on a weekday:

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- a) Select the five-minute intervals that comprise the ECBL Weekday Window for that Target Interval.
- b) Select the **tele**metered load value for each five-minute interval in the ECBL Weekday Window where the DER Aggregation was not dispatched for Energy and/or Regulation Service.

Services Tariff Section 4.1.10

A distribution utility shall have the opportunity to review the reliability and safety impacts of each Distributed Energy Resource or group of Distributed Energy Resources that are connected to the distribution utility's electric facilities. Such review shall take place prior to each Distributed Energy Resource's enrollment in the ISO Administered Markets, and whenever there is a material modification to a Distributed Energy Resource that changes its physical or operational characteristics that were previously evaluated by the applicable distribution utility. The ISO shall collect applicable physical and operational information for each Distributed Energy Resource and provide that information to the applicable distribution utility. An Aggregator is required to provide the A list of the required Distributed Energy Resource physical and operational information characteristics identified is available in the Aggregation System User Guide for each Distributed Energy Resource.

4.1.10.1 Aggregation Composition

Aggregations must contain at least two Resources, except that a single Demand Side Resource may participate as a single-Resource Aggregation.

The minimum capability of each individual Resource participating in an Aggregation shall be 10 kW. For the purposes of this Services Tariff Section 4.1.10.1, (i) the capability of a Demand Side Resource is the Resource's enrolled one-hour Demand Reduction capability, and (ii) the capability of a Generator is its nameplate capability rating.

23.3.1.4 Reference Levels

23.3.1.4.1 Except as provided in Sections 23.3.1.4.3 – 23.3.1.4.6 below, a reference level for each component of a Generator's or an Aggregation's Bid to provide Energy shall be calculated on the basis of the following methods, listed in the order of preference subject to the existence of sufficient data.

A reference level for an Energy Storage Resource's or an Aggregation's ~~that contains one or more Energy Storage Resources~~ Incremental Energy Bid to provide or withdraw Energy shall be calculated consistent with Sections 23.3.1.4.1.3 or 23.3.1.4.2 below, subject to the existence of sufficient data.

23.3.1.4.3 Notwithstanding the foregoing provisions, the reference level for Incremental Energy Bids for New Capacity, excluding Energy Storage Resources and Aggregations, for the three year and six month period following the New Capacity's first production of Energy while synchronously interconnected to the New York State Transmission System shall be the higher of (i) the amount determined in accordance with the provision of Section 23.3.1.4.1 or 23.3.1.4.2, or (ii) the average of the fuel price-adjusted peak LBMPs over the twelve months prior to the New Capacity's first production of Energy while synchronously interconnected to the New York State Transmission System of the New Capacity

in the Load Zone in which the New Capacity is located during hours when Generators or Aggregations with operating characteristics similar to the New Capacity would be expected to run. For entities owning or otherwise controlling the output of capacity in the New York Control Area other than New Capacity, the provisions of this Section 23.3.1.4.3 shall apply only to net additions of capacity during the applicable three year and six month period.

Services Tariff Section 13.3.1.1

13.3.1 Responsibility for Metering and Meter Data Services for DER Aggregations and Demand Side Resources

13.3.1.1 An Aggregator, ~~Demand Reduction Provider, DSASP Provider,~~ Responsible Interface Party, or Curtailment Service Provider shall obtain metering and meter data services, as these services are defined in ISO Procedures, from: (i) ~~the Member System in which Transmission District the Aggregation or Demand Side Resource is located, and/or (ii)~~ an authorized Meter Services Entity that the ISO has determined complies with the eligibility requirements pursuant to Section 13.3.2.1, and/or ~~(iii)~~ the municipal electric utility for the municipality in which the Demand Side Resource is electrically located, ~~and/or (iii) the Member System in which Transmission District the Aggregation or Demand Side Resource is located. The Aggregator shall notify the ISO of the specific metering and meter data services the Meter Services Entity, municipal electric utility, or Member System has agreed to provide in accordance with the ISO Procedures.~~ An