

April 2023 Load Forecasting Manual Update: DER Participation Model (B628)

Chuck Alonge

Demand Forecasting & Analysis

Business Issues Committee

April 12, 2023

Agenda

- Background
- Summary of LF Manual Updates
- Next Steps
- Questions

Background

- **To support the upcoming deployment of the 2019 DER Participation Model, NYISO seeks stakeholder approval of revisions included in NYISO Manuals**

Background

- **Revisions include updates for addressing DER Aggregation participation and associated procedures for including these resources in the ICAP Market Peak Load forecast**
- **Manual revisions also focus on load forecasting data requirements – the main areas of revisions are:**
 1. New data submission requirements for DER Aggregators in support of the annual ICAP Market Peak Load Forecast
 2. Updated ICAP Market Peak Load Forecasting methodology to account for DER Aggregator participation (i.e., accounting for the impacts of resources transitioning to and from DER aggregations)
 3. New data submission requirements for Transmission Owners (TOs) in order to improve NYISO project tracking of DER facilities (i.e., new resources and changes to existing resources) in the New York Control Area and to assist in the registration of DER facilities in an Aggregation

Background

- **Manual was last updated in December of 2022**
- **Primary data sources and methods have remained the same**
 - Schedule for developing the ICAP forecast is provided each year by September 1
 - Transmission owners and other stakeholders submit actual load data, weather-adjusted peaks, and regional load growth factors to the NYISO
 - The NYISO prepares its own estimates for weather-adjusted peaks, and regional load growth factors and compares with the Transmission Owner values
 - TO results are accepted if they are within acceptance criteria specified in the Manual
- **Reviewed drafted updates and modified with the Load Forecasting Task Force (LFTF) in November of 2022:**
 - [November 4, 2022 - LFTF: Draft Manual Language Proposed \(Link\)](#)
- **Reviewed with the Installed Capacity and Market Issues Working Groups (ICAPWG/MIWG) in January 2023:**
 - [January 26, 2023 - ICAPWG/MIWG: Manual Language Reviewed \(Link\)](#)

Summary of LF Manual Updates

■ Section 2.1

- New load data posting by the NYISO - Top 40 NYCA Coincident Peak Load Hours

■ Section 2.2

- Section 2.2: Annual election requirements for Aggregators (facilities transitioning from and to retail load modifying generation)
- Section 2.2.8: Aggregator data submission requirements - facility generation data during peak load hours for the NYCA and ICAP Market Localities

Summary of LF Manual Updates

■ Section 2.3

- Section 2.3.1: Reconciliation of Transmission District Load at the time of the NYCA peak. Accounting for Demand Side Resources engaged in the NYISO's Aggregation participation model
- Section 2.3.5: Accounting for Distributed Energy Resource (DER) Facilities in Aggregations in the ICAP Market Peak Load Forecast
 - Computation and application of Peak Proxy Generation to the ICAP Market Peak Load Forecast for the upcoming capability year
 - Methods added to address the transition of retail load modifying resources into and out of Aggregations
- Section 2.3.11: Reconciliation of Transmission District Load at the time of the Locality peaks (consistent with approach in Section 2.3.1)

Summary of LF Manual Updates

■ Section 3

- New section outlining the data requests for TO interconnection project data and Aggregator data submissions

■ Section 3.1

- Information to be provided by the NYISO to the TOs for resource location tracking (i.e., sharing of data to confirm TO service territories and associated zip codes)

■ Section 3.2

- Data request for each Non-NYISO Interconnection Project from the TOs and the DER Aggregators and related due dates

■ Section 3.3

- Data review and reconciliation timeline for TO and Aggregator data submissions and corrections

Next Steps

- **Motion for approval by the BIC today**
- **Posting of the updated Load Forecasting Manual**
- **The NYISO is still reviewing remaining Manuals reflecting DER updates at working groups and will bring them to BIC/OC for approvals in the coming months**

Questions?

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