Day-Ahead Demand Reduction Program

Reporting and Verifying Customer Baseline Load and Meter Data

Metering Requirements

Metering Device Requirements

LSEs are required to provide hourly interval metering data to validate performance. Demand Side Resources participating in theDay-Ahead Demand Reduction Program (DADRP) must have an installed integrated hourly metering device certified by a Meter Service Provider that provides integrated hourly kWh values for market settlement purposes. DADRP participants must also contract with a Meter Data Service Provider for collection and reporting of DADRP data to the NYISO.

Metering Configuration Requirements

Premises participating in the DADRP shall subscribe under one of three configurations: on-site generation only, load only or on-site generation and load. Integrated hourly metering devices shall be required as follows:

1) When a premise subscribes only the on-site generation, the hourly interval meter shall be installed to measure the generator's output;

2) When a premise subscribes only the load, the hourly interval meter shall be installed to meter the entire facility or for totalized load, an hourly interval meter is required for each participating load; or

3) When a premise subscribes both the on-site generation and load, both the on-site generation and the load must be metered separately. Metering of the load can be configured so as to measure only the load, or combined load and generation. Figure 1 illustrates examples of acceptable configurations.

a) **b)**

Figure 1 – Metering Configurations

Historical Operating Data

LSEs shall be required to provide historical operating data for each load or on-site generator upon registration for participation in the DADRP. These requirements may be met by:

1) *For on-site generation that is only participating the DADRP:*

For on-site generation that is participating in the DADRP, the generator meter ID and MSP ID certifying meter installation must be supplied on the End-Use registration form included in the Technical Bulletin on DADRP Registration Procedures.

2) *For loads with existing interval meters:*

Provide a minimum of 1 complete billing period of hourly interval data immediately preceding the first Capability Period the load will participate in.

3) For totalized loads with existing interval meters:

For totalized loads, provide hourly interval data for a minimum of 1 complete billing period of hourly interval data for all participating loads at the premise; or

4) For newly installed load interval meters:

For newly installed interval meters, provide the prior three month's summary of monthly kwh consumption and demand values, if available.

Performance

Performance for metering configurations where load reduction is included is measured as the difference between the Customer Baseline and the actual metered usage by hour during the period when load reduction is scheduled. The Customer Baseline type used for computing performance shall be the same day-type as the day-type corresponding to the period when load reduction is scheduled. For on-site generation, the generator output as metered will be used for performance as defined below. The equations are given for the alternative metering configurations shown in Figure 1.

Load Only Configuration
For premises subscribing only the load, performance for each hour shall be calculated as:

$P_h = (CB\text{-}xx)_h - AL_h$ (Meter configuration 1a)
$P_h = (CB\text{-}xx)_h - AN_h$ (Meter configuration 1b)

Where P_h = performance for the hour

$CB\text{-}xx_h$ = Customer Baseline day-type (weekday – CB-WD, Saturday-CB-SA, or Sunday-CB-SU)

AL_h = actual load for the hour using meter L in configuration 1a
AN_h = actual load for the hour using meter N in configuration 1b

On-site Generation Only Configuration
For premises subscribing only on-site generation, performance for each hour shall be calculated as:

$P_h = OG_h$
Where P_h = performance for the hour

OG_h = Metered On-site generator output for the hour using meter G in either configuration 1a or 1b

Load and On-site Generation Configuration
For premises subscribing both the on-site generation and the load and participating in the same EDRP event, performance for each hour shall be the net of on-site generation and load as defined below:

$P_h = OG_h + [(CB\text{-}xx)_h – AL_h]$ (Meter configuration 1a)
$P_h = (CB\text{-}xx)_h – AN_h$ (Meter configuration 1b)

Where P_h = performance for the hour

OG_h = Metered On-site generator output for the hour

$CB\text{-}xx_h$ = Customer Baseline day-type (weekday – CB-WD, Saturday-CB-SA, or Sunday-CB-SU) for the hour as calculated using the simple average method described above in Section 6.2.2

AL_h = actual load for the hour using meter L in configuration 6.1a
AN_h = actual load for the hour using meter N in configuration 6.1b

CSPs shall provide verification of load reduced within 45 days of the emergency by providing interval billing meter data to the NYISO. Verification of load reduction not received by the NYISO within 45 days of the emergency may not be compensated pursuant to this program. All load reduction is subject to NYISO audit, and market monitoring unit review. The NYISO will be responsible for settlement payment.

Data Submission

An LSE will submit the response(s) of the Demand Side Resource(s) that were scheduled day-ahead to provide demand reduction to the NYISO within 45 days of the event being called. Failure to so provide such data will result in an LSE not receiving payment for its participation in the DADRP. In cases where the LSE is not the Meter Data Service Provider (MDSP), upon receipt of the data by the NYISO, the NYISO will immediately forward the data to the MDSP (in most, if not all, cases the Transmission Owner) for optional review. After 14 calendar days the NYISO will accept the data as submitted unless challenged by the MDSP. The ISO maintains the ability to subsequently review the data through the Market Monitoring Unit.

Demand Side Resource Reduction Data

An LSE will submit response(s) of the Demand Side Resource(s) or on-site generation that participated in the DADRP aggregated by hour and by zone.

a) Where the LSE's Demand Side Resource response is based on individual end-use loads alone or for premises with both participating load and on-site generation, the LSE is required to provide metered hourly interval data for each load and the on-site generation for the entire billing period in which the Demand Side Resource participated in the DADRP.

b) Where the LSE's Demand Side Resource response is provided only from on-site generation, the LSE shall provide interval data for the 24-hour period ending midnight of the day period in which the Demand Side Resource participated in the DADRP.

c) If the period in which the Demand Side Resource participated in the DADRP event occurs less than 10 days into a billing period for any end-use load or premises with participating load and on-site generation, the prior month's bill period data must also be provided for that end-use load and on-site generation.

Data Format

Individual end-use or on-site generation hourly interval load data for the billing period in which Demand Side Resources participated in the DADRP shall be submitted in electronic form to the NYISO in one of the following formats:

a) MV-90 Row-Day format;

b) Comma-Separated Variable format with the following minimum entries: meter ID, account number, date, hourly values from hour ending 01:00 through hour ending 24:00 for the entire billing period;

c) other standardized formats as defined by NYISO.

Electronic data files may be submitted via one of the following methods:

a) e-mail to: DADRPmgr@nyiso.com;

b) CD-ROM or other electronic medium;

c) other methods as defined by NYISO.

Additional Documentation

Documentation on the Day-Ahead Demand Response Program can be found in the following technical bulletins:

TB1 - Program Overview
TB2 - Registration Procedures
TB3 - Bidding Instructions
TB4 - Calculating Customer Baseline Load
TB5 - Reporting and Verifying Customer Baseline Load and Meter Data
TB6 - Incentive Credits, Demand Reduction Payments and Non-Performance Penalties
TB7 - Performance and Payment Examples
TB8 - Day-Ahead Load Curtailment Program Cost Allocation