

Technical Data Requirements for the Demand Management Incentive

To process your Application, the Demand Management Program requires an engineering analysis to substantiate peak demand reduction and energy savings. Existing equipment must not be removed or disconnected and new equipment must not be installed prior to an inspection and verification of baseline conditions. The completed application package should include the following:

1. Completed Program Application
2. Engineering analysis
3. Detailed scope of work which includes an in-depth explanation of existing conditions, the proposed project, and all proposed measures
4. Cut sheets for all equipment, including technical data and testing laboratory information
5. Project timeline, including anticipated dates of demolition, installation/construction, and completion
6. W-9 form from the Applicant
7. Proposed cost estimates
8. Multiple Facilities Template (if applicable)

Assistance from the implementation team will be provided as needed to complete the application package. The following section is organized by measure-type and summarizes the project eligibility criteria, baseline data requirements, and minimum information that should be included in the scope of work and submitted in the application package.

On-Peak Hours – The hours between 2pm and 6pm, Monday through Friday, from June 1 through September 30, excluding legal holidays.

Off-Peak Hours – All hours not considered On-Peak Hours, as defined above.

Peak Demand Reduction (kW) – The peak demand reduction realized during On-Peak Hours; kW reduction estimates will depend on the measure type, measure operation, and level of data available.

THERMAL STORAGE

The project must install new thermal storage capacity that shifts electric cooling load from on-peak to off-peak hours.

Peak demand reduction attributed to the installation of new chillers or controls tied to new thermal storage capacity shall also be eligible for incentives under this category.

The kW incentive will be based on the reduction in demand realized over the facility’s top load hour that occurs during On-Peak Hours.

Baseline requirement: Minimum of one summer month of pre- and post-installation equipment-level metering of energy consumption and demand, or comparable data as appropriate to verify baseline conditions and post-installation performance and operation.

The minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description
- Pre- and post-installation equipment make and models.
- Pre- and post-installation conditions
- See also the minimum requirements listed in the Chillers, HVAC and Refrigeration section.
- Operating hours
- Proposed savings calculations

BATTERY STORAGE

An eligible battery storage array must have a minimum round-trip efficiency equal to or greater than 70%. “Round trip efficiency” is based on the battery system’s net round-trip AC-AC energy efficiency rating that requires losses and power consumed by the system’s auxiliary components to be subtracted from the gross power output of the system. This is typically measured at the storage module’s electric interconnection point.

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Incentives will be based on the average output kW discharged over On-Peak Hours, provided at least 50% of the incentivized battery capacity is discharged continuously during all On-Peak Hours. The output kW is the actual kW, or net AC real power, discharged by the battery system and must take into account the system’s depth of discharge, degradation, and efficiency losses.

Baseline requirement: Minimum of one summer month of pre- and post-installation equipment-level metering of energy consumption and demand, or comparable data as appropriate to verify baseline conditions and post-installation performance and operation.

The minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description
- End of life disposal plan
- Pre- and post-installation conditions
- Proposed demand reduction calculations
- New equipment make and models
- Operating hours

DEMAND RESPONSE (DR) ENABLEMENT

This incentive is available to offset the cost of equipment or software that enables automated participation in the New York Independent System Operator (NYISO) Installed Capacity (ICAP) Special Case Resources (SCR) Program. All facilities must register in the NYISO ICAP SCR Program.

Battery capacity not seeking incentives under the Energy Storage category can be incentivized under this category. Incentives will be based on kW committed to the NYISO ICAP SCR Program.

Generators must meet the New Source Performance Standards and must be utilized only as stipulated in the operating permit. Customer attestation of compliance with all Local, State and Federal regulations will be required. Copies of the NYS DEC and NYC DEP (Department of Health in Westchester) permits for DR operation will also be required.

Installing equipment that enables customers to participate in the NYISO ICAP SCR program via automated demand response for short term curtailments of peak load is eligible. For the purposes of this program, “automated demand response” refers to demand response enabled by physical hardware and control systems.

Design documents must clearly identify the peak demand reduction potential during DR events.

Baseline requirement: Documentation of Average Coincident Load (ACL) and post-installation event or test event data. All NYISO ICAP SCR Program requirements must be met. Existing equipment controls, consumption data, and equipment capacity must be verified. Proof of enrollment into the NYISO ICAP SCR Program will be required

The minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description
- Cut sheets and technical data for DR equipment and/or software
- Design documents
- Proposed demand reduction calculations
- Pre-and post-installation equipment and controls

BUILDING MANAGEMENT SYSTEMS (BMS)/CONTROLS

BMS and Controls incentives are available for new installations or substantial upgrades of existing systems.

The kW incentive will be based on the average peak demand reduction realized over On-Peak Hours.

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Baseline requirement: Minimum of one summer month of pre- and post- installation equipment-level metering of energy consumption and demand, or comparable data as appropriate to verify baseline conditions and post-installation performance and operation.

The minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description including, but not limited to, list of points and function
- Operating hours
- Pre- installation list of BMS control points, if applicable
- Proposed savings calculations

CHILLERS, HVAC AND REFRIGERATION

Eligible units must be a replacement of existing equipment. Switching from non-electric to electric cooling is not eligible. All HVAC equipment must exceed ASHRAE 90.1-2007 standards by at least 2% or fulfill the prescriptive program requirements, whichever is more stringent.

The kW incentive will be based on the reduction in demand realized over the facility’s top load hour that occurs during On-Peak Hours.

Super-Efficient Chiller Bonus (SECB) - Water-cooled electric chillers greater than or equal to 300 tons are eligible for a bonus if the proposed efficiencies exceed the associated ASHRAE 90.1-2007 centrifugal chiller full load standard (Path A) by at least 3% or Non-standard Part Load Value (NPLV – Path B) by at least 12.5%. Bonus incentive calculations are based on nameplate efficiencies. New super-efficient chillers that are installed to accommodate load growth are eligible for this bonus. Chillers not covered by ASHRAE 90.1-2007 (addendum BT), backup chillers, and chillers replacing non-electric chillers are ineligible for this bonus incentive. The SECB estimator can be found on the Con Edison or NYSEDA website.

Baseline requirement: Minimum of one summer month of pre- and post- installation equipment-level metering of energy consumption and demand, or comparable data as appropriate to verify baseline conditions and post-installation performance and operation.

The minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description
- Pre- and post-installation kW/ton or COP
- Pre- and post-installation locations
- Pre- and post-installation EER or SEER
- Pre- and post-installation nominal tons
- Operating hours and Sequence of Operations
- Pre- and post-installation make and model
- Proposed savings calculations

LIGHTING

The following lighting technologies are eligible for Demand Management Program incentives:

- All DLC and Energy Star qualified LED products
- T5 fluorescent lamps and ballasts
- 4-foot, CEE-qualified reduced wattage (RW) and high performance (HP) T8 fluorescent lamps and ballasts

Re-lamping projects are ineligible for funding. Re-lamping is defined as the replacement of only the removable lamp(s) in a light fixture.

The kW incentive will be based on the average peak demand reduction realized over On-Peak Hours.

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Baseline requirement: Minimum of two weeks of pre- and post-installation equipment-level metering of energy consumption and demand, or comparable data as appropriate to verify baseline conditions and post-installation performance and operation.

Applicants are encouraged to utilize the Con Edison or NYSEDA approved lighting tools to present your scope of work. Alternatively, the minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description
- Pre- and post-installation fixture wattage
- Pre- and post-installation fixture description and location
- Operating hours
- Proposed savings calculations

FUEL SWITCHING: NON-ELECTRIC COOLING

For Con Edison Steam customers, see details and application from the Con Edison Targeted Steam AC program.

The following technical requirements apply to the replacement or addition of chillers powered by natural gas or self-generated steam.

Incentives will be calculated based on a \$/ton basis according to the Non-Electric A/C Incentives document, viewable on the Demand Management Program websites of [Con Edison](#) and [NYSEDA](#).

All non-electric chillers will be screened for efficiency. Where applicable, chillers must meet ASHRAE 90.1-2007 standards.

Baseline requirement: Minimum of one summer month of pre- and post-installation equipment-level metering of energy consumption and demand, or comparable data as appropriate to verify baseline conditions and post-installation performance and operation.

The minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description
- Pre- and post-installation kW/ton or COP
- Pre- and post-installation locations
- Operating hours and Sequence of Operations
- Pre- and post-installation nominal tons
- Proposed savings calculations
- Pre- and post-installation make and model

PROCESS EFFICIENCY AND IT/DATACENTER

Incentives are available to manufacturers and data centers that implement custom and site-specific applications of commercially available technologies that improve energy use and increase productivity or output.

Incentives will be calculated, when appropriate, based on a reduction in peak demand and energy usage per unit of production or workload.

Baseline requirement: Minimum of one summer month of pre- and post-installation equipment-level metering of energy consumption and demand, or comparable data as appropriate to verify baseline conditions and post-installation performance and operation.

The minimum requirements that should be outlined in your detailed scope of work are the following:

- Project description
- Operating hours
- Pre- and post-installation conditions
- Proposed savings calculations
- Cut sheets and technical data