

Protocols for the Treatment of Mixed Generation Behind a Single Meter

Under the NJ BPU regulations, only electrical energy produced from Class I Renewable Resources is eligible for netmetering.

If the potential for the customer's netmetering eligible generation alone is small (i.e. minimal energy exported to the EDC system absent the non-eligible generation), the customer should evaluate the economics of not pursuing, or continuing, service under the netmetering regulations.

In the event the customer does intend to take or continue taking service under the netmetering regulations, the installation of combined netmetering eligible & non-eligible generation can be accomplished in either of two ways at the discretion of the connecting EDC. It can be done either by installing controls on the operation of the generation or by the installation of metering on the non-eligible generation to algorithmically differentiate between eligible and non-eligible generation.

The cost of the installation of additional metering on the non-eligible generation and any upgrades to the service entrance metering along with any required communications (generally only required with interval metering) to each meter location will be at the customers expense.i

All mixed generation applications will be subject to Level 3 review requirements including application fees and review procedures. Additional studies will only be required if determined to be necessary during the initial review. Storage systems will be analyzed based on difference between their maximum production and maximum load and their interaction with other generation and in particular, other storage systems where applicable

Controls

The customer-generator must design & install a system that prevents the operation of the non-eligible generation at the same time the eligible generator is exporting energy to the EDC's electrical system. Stated another way, the non-eligible generation must be reduced to zero as the output of the PV or other renewable system approaches the customers load, or the renewable system production will need to be reduced in order to continue operating the non-eligible generation. Metering may be required to verify control system performance.

Algorithmic Determination of NM Eligible Energy

At the option and expense of the customer-generator, the EDC will install revenue grade interval or standard kWh metering on the output of the non-eligible generation. In the event the customer-generator opts for interval metering, the service entrance metering will be upgraded to interval metering if not already installed and; the customer-generator will be required to provide communications to each meter location.

Depending on the type of metering installed, the determination of energy eligible for netmetering will be made either hourly or in a single monthly calculation as follows:

- The energy exported over an interval (hourly or monthly) to the EDC's electrical system will be reduced by the energy produced by the non-eligible generation over the corresponding interval.
 - If the balance is positive, i.e. the PV system production exceeded the customer-generator's usage:
 - That balance will be eligible for netmetering under the netmetering regulations and,
 - The amount of energy produced and exported by the non-eligible generation will be eligible for compensation in accordance with the EDC's policy for purchasing such energy.
 - If the balance is negative, i.e. the PV system production was less than the customer's usage:
 - None of energy exported over the interval will be eligible for netmetering and,
 - All of the energy exported over the interval will be eligible for compensation in accordance with the EDC's policy for purchasing such energy.

ⁱ Participation in the PJM Demand Response Frequency program does not permit the export of electrical energy to the EDC's electrical system. At the EDC's discretion, the installation of any battery storage systems or other generation for such participation will require service entrance interval metering and associated communications at the customer's expense along with advanced notification of scheduled participation.