

GENERAL INFORMATION

22. Distributed Energy Resources

The following requirements are applicable to all customers that install an eligible Distributed Energy Resource (DER) as described for each program. A customer with a DER shall take service under the otherwise applicable standard service classification and shall be exempt from Standby Service.

A. Interconnection

a. Interconnection Requirements

- i. Interconnection requirements are established in P.S.C. No. 119, General Rule No. 9, Distributed Energy Resource Interconnection Requirements.
- ii. Applicable to any customer installing a Distributed Energy Resource (DER) unit (e.g. distributed generation or energy storage system) 5 MW or less, connected in parallel with the Company's utility distribution system.
- iii. These requirements are not applicable to a DER unit which is not connected to the Company's distribution grid.
- iv. A customer that is installing DER is required to comply with the Standardized Interconnection Requirements (SIR), including the standard applications and contracts, are set forth within Addendum-SIR to P.S.C. No. 119.

B. Uniform Business Practices – Distributed Energy Resources Providers

The rules applicable to DER Suppliers are contained in the Addendum, UBP-DERS, attached to this Schedule, which are incorporated herein.

The UBP-DERS contains provisions applicable to all DER Suppliers as well as provisions applicable only to Community DG providers (pursuant to Rule 37) and on-site mass market DG providers.

C. Metering Requirements applicable

- a. A Net Metered Generation Facility that has completed Step 8 of the SIR Addendum-SIR or has installed Net Metered Generation Facility on or prior to March 9, 2017 ("Existing"), the Company shall install metering appropriate for the customer's service classification that enables the Company to measure the electricity delivered to the customer and measure the electricity supplied by the customer to the Company.
- b. A Net Metered Generation Facility that does not meet the requirements in a. above, or the Host Account of a project that is participating in Remote Crediting: the Company shall install metering capable of recording net hourly consumption and injection for a customer. The customer shall be responsible for the cost of the meter, the installation, the communication to the meter and any additional costs.
- c. Where the Company determines that a second meter should be installed, no additional costs shall be billed to the customer. When a second meter is requested by the customer that is not required by the Company, the customer shall be responsible for the cost of the meter, the installation, and any additional costs.

GENERAL INFORMATION

22. Distributed Energy Resources (Cont'd)

D. Programs

1. Grandfathered NEM

Grandfathered Net Energy Metering for Solar Electric Generating Equipment, Farm Waste Electric Generating Equipment, Micro-Combined Heat and Power Generating Equipment, Fuel Cell Electric Generating Equipment, and Micro-Hydroelectric Generating Equipment (PSL §66-j) and Wind Generation Equipment (PSL §66-l). Such system must be connected to the customer's electric system and must be operated in accordance with applicable government and industry standards, that is connected to the electric system and operated in conjunction with the Company's transmission and distribution facilities, and that is operated in compliance with any standards and requirements established under this section. A customer may include energy storage equipment when submitting an application for net metering pursuant to this subdivision of Grandfathered NEM.

A. Eligible Generation Facilities pursuant to PSL §66-j:

1. Eligible Capacity

The total rated generating capacity for solar, farm waste, micro-hydroelectric, MCHP and fuel cell electric generating equipment owned, leased or operated by customer-generators in the Company's service area shall not exceed 98.16 MW, the total rated generating capacity of interconnected projects served by the Company under PSL §66-j as of the close of business on March 9, 2017, including projects to be served by the Company under PSL §66-j for which either Step 8 (for projects greater than 50kW) or Step 4 (for projects 50kW or less) of the Standard Interconnection Requirements (SIR), as applicable, had been completed by the close of business on March 9, 2017. This MW limit shall automatically decrease as projects served under PSL §66-j are taken out of service, but shall not decrease below 28.26 MW, representing 1% of the Company's electric demand for the year 2005.

- a) A Residential Customer (as defined by HEFPA), and farm customer as defined in Subdivision 11 of Section 301 of the Agriculture and Markets Law, may install and operate solar generating equipment located and used at his or her residence. Solar generating equipment is defined as a solar system, with a rated capacity of not more than 25 kW that is manufactured, installed and operated in accordance with applicable government and industry standards. Farm customers may install solar generating equipment with a rated capacity of not more than 100 kW, that is manufactured, installed and operated in accordance with applicable government and industry standards.
- b) A Non-Residential Customer who operates solar generating equipment located and used at its premises. Solar generating equipment is defined as a solar system that is manufactured, installed and operated in accordance with applicable government and industry standards with a rated capacity of not more than 2,000 kW.

GENERAL INFORMATION

22. Distributed Energy Resources (Cont'd)

D. Programs (Cont'd)

1. Grandfathered NEM (Cont'd)

A. Eligible Generation Facilities pursuant to PSL §66-j: (Cont'd)

- c) A customer, residential or non-residential, who owns or operates farm waste electric generating equipment that generates electric energy from biogas produced by the anaerobic digestion of agricultural wastes with a rated capacity of not more than 2,000 kW, located and used at their "farm operation" as defined in Subdivision 11 of Section 301 of the Agriculture and Markets Law. Such definition states that a "farm operation" means the land and on-farm buildings, equipment, manure processing and handling facilities, and practices which contribute to the production, preparation and marketing of crops, livestock and livestock products as a commercial enterprise, including a "commercial horse boarding operation" as defined in subdivision thirteen of this Section 301 of the Agriculture and Markets Law.
 - i. The farm waste electric generating equipment must be manufactured, installed and operated in accordance with applicable government and industry standards. The equipment must be fueled, at a minimum of 90% on an annual basis, by biogas produced from the anaerobic digestion of agricultural waste such as livestock manure materials, crop residues and food processing waste. The equipment must be fueled by biogas generated by anaerobic digestion with at least 50% by weight of its feedstock being livestock manure materials on an annual basis. The customer, at its expense, shall promptly provide to the Company all relevant, accurate and complete information, documents, and data, as may be reasonably requested by the Company, to enable the Company to determine whether the customer is in compliance with these requirements.
- d) A Residential Customer (as defined by HEFPA) who owns, leases or operates MCHP generating equipment. MCHP generating equipment is defined as an integrated, cogenerating building heating and electrical power generation system, operating on any fuel and of any applicable engine, fuel cell, or other technology, with a rated capacity of at least one kW and not more than 10 kW electric and any thermal output that at full load has a design total fuel use efficiency in the production of heat and electricity of not less than 80%, and annually produces at least 2,000 kWh of useful energy in the form of electricity that may work in combination with supplemental or parallel conventional heating systems, that is manufactured, installed and operated in accordance with applicable government and industry standard.
- e) A Residential Customer (as defined by HEFPA) who owns, leases or operates fuel cell generating equipment located and used at his or her residence. Fuel cell generating equipment is defined as a solid oxide, molten carbonate, proton exchange membrane or phosphoric acid fuel cell with a combined rated capacity of not more than 10 kW; that is manufactured, installed and operated in accordance with applicable government and industry standards.
- f) A Non-Residential Customer who owns, leases or operates fuel cell generating equipment located and used at their premises. Fuel cell generating equipment is defined as a solid oxide, molten carbonate, proton exchange membrane or phosphoric acid fuel cell with a combined rated capacity of not more than 2,000 kW that is manufactured, installed and operated in accordance with applicable government and industry standards.

GENERAL INFORMATION

22. Distributed Energy Resources (Cont'd)

D. Programs (Cont'd)

1. Grandfathered NEM (Cont'd)

A. Eligible Generation Facilities pursuant to PSL §66-j: (Cont'd)

- g) A Residential Customer (as defined by HEFPA) who owns or operates micro-hydroelectric generating equipment located and used at their residence. Micro-hydroelectric generating equipment is defined as a hydroelectric system with a rated capacity of not more than 25 kW; that is manufactured, installed and operated in accordance with applicable government and industry standards.
- h) A Non-Residential Customer who owns or operates micro-hydroelectric generating equipment located and used at their premises. Micro-hydroelectric generating equipment is defined as a hydroelectric system with a rated capacity of not more than 2,000 kW; that is manufactured, installed and operated in accordance with applicable government and industry standards.

2. Term

- 1. The Company shall net the electricity (kWh) delivered to the customer life of the generating system for a customer that on or prior to March 9, 2017 has:
 - a. completed Step 4 of the SIR Addendum for generating equipment less than 50 kW; or
 - b. installed generating equipment on or prior to March 9, 2017.
 - c. A customer may opt to take service under Rule 40, Value of Distributed Energy Resources (VDER). Such election shall be a one-time election and shall be irrevocable.
- 2. A customer that installs solar generating equipment after March 9, 2017 shall refer to Rule 40, Value of Distributed Energy Resources (VDER), A. Phase One Net Energy Metering ("NEM") or B. Value Stack, as applicable

3. Billing

1. Residential

For each billing period during the term of the SIR Contract, the Company shall net the electricity (kWh) delivered to the customers with the electricity (kWh) supplied by the customer to the Company.

- a) If the electricity (kWh) supplied by the Company exceeds the electricity supplied by the customer to the Company during the billing period the customer shall be billed for the net kWh supplied by the Company to the customer at the standard service class rates. For customers billed on time-differentiated rates (TOU meter), e.g., On-Peak/Off-Peak or Day/Night, netting shall occur in each time period.
- b) If the electricity (kWh) supplied by the customer to the Company during the billing period exceeds the electricity (kWh) supplied by the Company to the customer, a kWh credit shall be carried forward for the next billing period. For customers billed on time-differentiated rates (TOU meter), e.g., On-Peak/Off-Peak or Day/Night, the kWh credit shall be carried forward as a credit to the appropriate time period.

GENERAL INFORMATION

22. Distributed Energy Resources (Cont'd)

D. Programs (Cont'd)

1. Grandfathered NEM (Cont'd)

A. Eligible Generation Facilities pursuant to PSL §66-j:

3. Billing (Cont'd)

1. Residential (Cont'd)

- c) For customers billed on TOU rates, if the electricity (kWh) supplied by the customer to the Company is not metered for each TOU period and until such time as metering is installed to measure electricity supplied to the Company in each TOU period, an allocation of the electricity supplied to the Company shall be done according to allocation factors as set forth in a Special Provision provided in each service classification in this Schedule.
- d) For Residential Solar and Farm Waste Generators – Cash-Out Provision
 - 1. If (a) on an annual basis, during the term of the SIR Contract or (b) on the date the SIR Contract is terminated pursuant to the terms and conditions of said Contract, there exists a positive (kWh) balance for an accumulation of excess generation provided to the Company, then a cash payment shall be issued to the customer.
 - i. For a Non-hourly Pricing customer, the payment shall be for an amount equal to the product of the excess balance times the average avoided cost for energy over the most recent 12-month period.
 - ii. For an Hourly Pricing customer, the payment shall be for the remaining portion of the excess credit priced at avoided cost, after credits are applied to the current bill period. Any remaining non-avoided cost monetary credits are reset to zero.
 - 2. A customer shall be provided a one-time option to select an individual anniversary date for the annual cash-out of excess net metering credits.
 - i. For a Non-hourly Pricing customer, the initial cash-out payment shall be equal to the product of excess balance multiplied by the average avoided cost for the energy over the number of months the customer has taken service under this provision.
 - ii. For an Hourly Pricing customer, the initial cash-out payment shall be for the remaining portion of the excess credit priced at avoided cost, after credits are applied to the current bill period. Any remaining non-avoided cost monetary credits are reset to zero. Upon the Company's determination that the customer has taken service under this Section while in violation of the conditions of service set forth herein, the customer shall forfeit any positive balance accrued during the annual period in which the violation occurred.

2. Non-Residential

For each billing period during the term of the SIR Contract, the Company shall net the electricity (kWh) delivered to the customers with the electricity (kWh) supplied by the customer to the Company.

Non-Hourly Pricing

- a) If the electricity (kWh) supplied by the Company exceeds the electricity supplied by the customer to the Company during the billing period, the customer shall be billed for the net kWh supplied by the Company to the customer at the standard service class rates. For customers billed on Time-differentiated rates (TOU meter), e.g., On-Peak/Off-Peak, netting shall occur in each time period.
- b) If the electricity (kWh) supplied by the customer to the Company during the billing period exceeds the electricity (kWh) supplied by the Company to the customer, a kWh credit shall be carried forward for the next billing period. For customer billed on time-differentiated rates (TOU meter), e.g., On-Peak/Off-Peak, the kWh credit shall be carried forward as a credit to the appropriate time period.

GENERAL INFORMATION

22. Distributed Energy Resources (Cont'd)

D. Programs (Cont'd)

1. Grandfathered NEM (Cont'd)

A. Eligible Generation Facilities pursuant to PSL §66-j: (Cont'd)

3. Billing (Cont'd)

2. Non-Residential (Cont'd)

- c) For a demand-billed customer, prior to carrying forward any kWh credit, the kWhs shall be converted to a dollar value using the applicable tariff per kWh rate and applied as a credit to the current utility bill. If the dollar value of the kWh exceeds the current utility bill, any remaining dollars shall be converted back to kWhs and carried forward for the next billing period as a kWh credit.
- d) For customers billed on TOU rates, if the electricity (kWh) supplied by the customer to the Company is not metered for each TOU period and until such time as metering is installed to measure electricity supplied to the Company in each TOU period, an allocation of the electricity supplied to the Company shall be done according to allocation factors as set forth in a Special Provision provided in each service classification in this Schedule.

Hourly Pricing

- a) For customers billed on Hourly Pricing, for each hour, the customer's usage and its generation are netted within the hour.
- b) Kilowatt-hour charges are calculated using the consumption in each hour in which the customer's usage exceeds the customer's generation multiplied by the applicable charge.
- c) For each hour the electricity generated and supplied by the customer exceeds the customer's usage, the kWh difference is multiplied by the applicable tariff per kWh rates (e.g., Energy Charge, Supply Charge, Merchant Function Charge, Ancillary & NTAC, transmission project costs allocated to the Company under the NYISO tariff as approved by FERC, SBC, RDM, and Supply Adjustment Charge.) This is the current month's excess monetary credit.
- d) The excess monetary credit from the current and/or prior bill period(s) is applied to the current billing period. If the excess monetary credit exceeds the current utility bill, the monetary credit is carried forward to the next billing period.

B. Eligible Wind Generation PSL §66-l

1. Eligible Capacity

Application of the Wind Residential Service Option shall be available to eligible customers, on a first come, first served basis, until the total rated generating capacity for all wind electric generating equipment owned or operated by customer generators in the Company's service area is equivalent to 8,478 kW (3 /10% of the Company's electric demand for the year 2005) and is available only in non-network areas of the Company's territory.

- a. Applicable to any Residential Customer (as defined by HEFPA) who operates wind generating equipment located and used at his or her primary, legal residence. Wind generating equipment is defined as a wind system, with a rated capacity of not more than 25 kW that is manufactured, installed and operated in accordance with applicable government and industry standards.

GENERAL INFORMATION

22. Distributed Energy Resources (Cont'd)

D. Programs (Cont'd)

1. Grandfathered NEM (Cont'd)

B. Eligible Wind Generation (PSL §66-l): (Cont'd)

1. Eligible Capacity (Cont'd)

- b. Applicable to any customer who owns or operates farm wind electric generating equipment ("Facility"), that generates electric energy with a rated capacity of not more than 500 kW; where the customer's primary residence is located on the same land used for his or her "farm operation" as defined in Subdivision 11 of Section 301 of the Agriculture and Markets Law. Such definition states that a "farm operation" means the land and on-farm buildings, equipment, manure processing and handling facilities, and practices which contribute to the production, preparation and marketing of crops, livestock and livestock products as a commercial enterprise, including a "commercial horse boarding operation" as defined in subdivision thirteen of this Section 301 of the Agriculture and Markets Law.
- c. Applicable to any Non-Residential Customer who operates wind generating equipment located and used at its premises. Wind generating equipment is defined as a wind system that is manufactured, installed and operated in accordance with applicable government and industry standards with a rated capacity of not more than 2,000 kW.

2. Billing

For each billing period during the term of the SIR Contract, the Company shall net the electricity (kWh) delivered to the customers with the electricity (kWh) supplied by the customer to the Company.

- a) If the electricity (kWh) supplied by the Company exceeds the electricity supplied by the customer to the Company during the billing period the customer shall be billed for the net kWh supplied by the Company to the customer at the standard service class rates. For customers billed on time-differentiated rates (TOU meter), e.g., On-Peak/Off-Peak or Day/Night, netting shall occur in each time period.
- b) If the electricity (kWh) supplied by the customer to the Company during the billing period exceeds the electricity (kWh) supplied by the Company to the customer, a kWh credit shall be carried forward for the next billing period. For customers billed on time-differentiated rates (TOU meter), e.g., On-Peak/Off-Peak or Day/Night, the kWh credit shall be carried forward as a credit to the appropriate time period.
- c) Cash-out
Applicable to Residential Wind or Farm Wind customers:
 - a. If, (a) on an annual basis, during the term of the SIR Contract or (b) on the date the SIR Contract is terminated pursuant to the terms and conditions of said Contract, there exists a positive (kWh) balance for an accumulation of excess generation provided to the Company, then a cash payment shall be issued to the customer.
 - i. For a Non-hourly Pricing customer, the payment shall be for an amount equal to the product of the excess balance times the average avoided cost for energy over the most recent 12-month period.
 - ii. For an Hourly Pricing customer, the payment shall be for the remaining portion of the excess credit priced at avoided cost, after credits are applied to the current bill period. Any remaining non-avoided cost monetary credits are reset to zero.

GENERAL INFORMATION

22 - Distributed Energy Resources (Cont'd)

D. Programs (Cont'd)

1. Grandfathered NEM (Cont'd)

- B. Eligible Wind Generation (PSL §66-l): (Cont'd)
- 2. Billing (Cont'd)

b. A customer shall be provided a one-time option to select an individual anniversary date for the annual cash-out of excess net metering credits.

C. Upon the Company's determination that the customer has taken service under Grandfathered NEM while in violation of the conditions of service set forth herein, the customer shall forfeit any positive balance accrued during the annual period in which the violation occurred.

2. Community Distributed Generation

Please refer to Rule 37, Community Distributed Generation for requirements specific to a Host and Satellite that is participating in Community Distributed Generation and for rules pertaining to the calculation and application of credits for excess generation.

3. Remote Net Metering

Please refer to Rule 42, Remote Net Metering for requirements specific to a customer that is participating in Remote Net Metering and for rules pertaining to the calculation and application of credits for excess generation.

4. Remote Crediting

Please refer to Rule 50, Remote Crediting Program for rules specific to a Host and Satellite that is participating in Remote Crediting program and for rules pertaining to the calculation and application of credits for excess generation.

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GENERAL INFORMATION

22. Reserved for Future Use

ISSUED BY: Jeremy Euto, Vice President – Regulatory, Binghamton, New York