



ELECTRIC SCHEDULE NEMBIO

Sheet 1

NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

APPLICABILITY: This schedule is applicable to Bundled Service and Community Choice Aggregation Service (CCA Service) Customers who are served under a Time-of-Use (TOU) rate schedule, and who (1) interconnect and operate in parallel with PG&E's electrical system an Eligible Biogas Digester Electrical Generating Facility, as defined below, with a generating capacity no greater than 1,000 kW, located on or adjacent to the Biogas Customer-Generators' premises intended to offset part or all of the Biogas Customer-Generators' electrical requirements, and (2) are the recipient of local, state, or federal funds, or who self-finance projects designed to encourage the development of Biogas Digester Electrical Generating Facilities (Biogas Customer-Generator). Customers eligible for service under this Schedule are exempt from any new or additional charges not included in their Otherwise Applicable Schedule (OAS).

This schedule is closed to new customers and Public Utilities (PU) Code Section 2827.9 upon which this tariff is based is repealed pursuant to Senate Bill 489 (Chapter 593, 2011). All references in this tariff to PU Code 2827.9 are to it prior to its repeal. (N)
|
(N)

This service is not applicable to a CCA Service Biogas Customer-Generator where the customer's Community Choice Aggregator (CCA) does not offer a biogas net energy metering tariff. In addition, if an eligible Biogas Customer-Generator participates in direct transactions with a CCA that does not provide distribution service for the direct transactions, the CCA, and not PG&E, is obligated to provide net energy metering to the customer.

An Eligible Biogas Digester Electrical Facility is defined as a generating facility that meets all applicable safety and performance standards in accordance with PG&E's Electric Rule 21 and pursuant to California Public Utilities Code Section 2827.9 (PU Code Section 2827.9) produces electricity by a manure methane production project or as a byproduct of the anaerobic digestion of bio-solids and animal waste.

Pursuant to PU Code Section 2827.9, this Schedule is available on a first-come, first-serve basis and will be closed to new customers once the combined statewide cumulative rated generating capacity used by the eligible biogas digester customer-generators in the service territories of the three largest electrical corporations in the state reaches 50,000 kW. No Biogas Customer-Generator shall be eligible for participation on NEMBIO that has not commenced operation by December 31, 2009. A biogas digester customer-generator shall be eligible for the tariff established pursuant to this section, only for the operating life of the Biogas Customer-Generator.

(Continued)

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Decision

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Brian K. Cherry
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Regulation and Rates

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ELECTRIC SCHEDULE NEMBIO Sheet 2
NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

APPLICABILITY: Notwithstanding the generating capacity limit of up to 1,000 kW, in the service territories of the three largest electrical corporations in the state, up to three large Biogas Customer-Generators, served under either Bundled Service or CCA Service, with a generating capacity of more than 1,000 kW and not more than 10,000 kW, otherwise meeting the criteria above, shall be eligible for NEMBIO. (T)

Customers seeking generator interconnections in portions of San Francisco and Oakland where PG&E has a network grid must contact PG&E about generation export limitations.

As required by PU Code Section 2827.9, no Biogas Customer-Generator that is subject to the best available control technology (BACT) requirements shall be eligible for participation in NEMBIO unless the Biogas Customer-Generator has installed the best available control technology as required by the regional air pollution control district at the time of installation to ensure the maximum feasible reductions in toxic and criteria pollutants.

Schedule NEMBIO applies also to specified Net Energy Metering-eligible (NEM-Eligible) generators in a generating facility comprised of multiple NEM- and non-NEM-eligible generators, served through the same Point of Common Coupling (PCC), where the NEM-eligible generating capacity is not more than 1 MW. Such facilities will be referred to as Multiple Tariff Facilities, and any group of generators within such a facility that is subject to the same tariff provisions for billing and metering purposes will be referred to as a Constituent Generator Group. In order to be eligible for this rate schedule in a Multiple Tariff Facility, the customer-generator must meet all the requirements of Special Condition 6 for the Schedule NEMBIO eligible generator, and must also meet all other applicable tariffs.

Due to the complexity of Multiple Tariff Facilities NEMBIO, generating facilities interconnecting under the provisions of Special Condition 6 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21.

(L)

(Continued)

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		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



ELECTRIC SCHEDULE NEMBIO Sheet 3
NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

TERRITORY: The entire territory served.

RATES: Only the generation rate component of the energy charge (kWh) of the Biogas Customer-Generator's OAS ("Generation Rate Component") shall be used in the calculation of credits when the Biogas Customer-Generator is a net energy producer, on a monthly basis, for any TOU period. Only the Generation Rate Component of the Biogas Customer-Generator's OAS shall be used to calculate the charge for generation when the Biogas Customer-Generator is a Net Energy consumer on a monthly basis, for any TOU period. If the Biogas Customer-Generator is being served under CCA service, the applicable monthly bill charges or credits related to the Generation Rate Component will be specified by their CCA in accordance with the eligible Biogas Customer-Generator's OAS and PG&E's Community Choice Aggregation tariffs. All other charges, including but not limited to, Transmission Charges, Distribution Charges, Monthly Customer Charges, Minimum Charges, Demand Charges, and non-energy related charges, shall be calculated according to the Customer-Generator's OAS for all energy (kWh) supplied to PG&E's grid prior to the netting of energy charges and credits. (T)

The charges and credits for Multiple Tariff Facilities taking service on this rate schedule under the provisions of Special Condition 6 will be calculated using the OAS identified by the customer-generator in its application for interconnection and its interconnection agreement with PG&E or as subsequently changed by the customer-generator in accordance with PG&E's Electric Rule 12.

Customer-generators with Multiple Tariff Facilities with existing NEM, NEMBIO and/or NEMFC eligible generators interconnecting additional generators, will receive a bill true-up, prior to taking service under Special Condition 6. This ensures that all NEM accounts have the same Relevant Period, as defined in Special Condition 2, going forward.

SUB-SCHEDULES: Eligible Customer-Generators will be placed on Rate Schedule NEMBIO, unless they are applying for service under the provisions of one of the following sub-schedules:

NEMBIOA – For Customer-Generators taking service under the provisions of Special Condition 4—LOAD AGGREGATION

NEMMT – For Customer-Generators taking service as a Multiple Tariff Facility under Special Condition 6 of this tariff

(Continued)



ELECTRIC SCHEDULE NEMBIO Sheet 4
NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

SPECIAL
CONDITIONS:

- 1. METERING: (D)
(L)
(T)
 - a. Biogas Digester Net Energy metering shall be accomplished using a TOU meter capable of separately registering the flow of electricity in two directions. If the Biogas Customer-Generator's existing meter is not capable of separately measuring the flow of electricity in two directions, the Biogas Customer-Generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to separately measure electricity flow in two directions. If dual metering is installed, the Net Energy metering calculation shall yield a result identical to that of a single meter capable of separately measuring the flow of electricity in two directions. (T)
 - b. If none of the normal metering options at PG&E's disposal that are necessary to render accurate billing are acceptable to the Biogas Customer-Generator, PG&E shall have the right to refuse interconnection under this rate schedule. (T)
 - c. Dairy operations with service accounts that qualify for Special Condition 4 are required to meet the provisions of Special Conditions 1.a and 1.b for the account serving the Eligible Biogas Digester Electrical Generating Facility only; all other service accounts are only required to have the metering specified in the TOU rate schedule on which it is billed. (T)
(T)
 - d. Multiple Tariff Facilities will be metered under one of the options described in Special Condition 6. (N)
(N)
(L)

(Continued)



ELECTRIC SCHEDULE NEMBIO Sheet 5
NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

SPECIAL
CONDITIONS:

2. BILLING: Biogas Customer-Generator will be billed monthly for all charges other than the Generation Rate Component charges on all eligible Aggregated Metered Service Accounts. With each monthly billing statement PG&E shall provide the Biogas Customer-Generator with information regarding energy (kWh) consumption and energy (kWh) exported.

At the end of each Relevant Period, PG&E or CCA, as applicable, shall perform a Reconciliation. A Relevant Period consists of any twelve monthly billing cycles commencing on the date PG&E provides the Customer-Generator with PG&E's written approval to begin parallel operation of the generating facility for purposes of participating in NEMBIO, and on every subsequent anniversary thereof. If an eligible customer-generator terminates service, or experiences a change in electric commodity service provider, prior to the end of any 12 monthly billing cycles the Relevant Period will consist of that period from the anniversary date until the effective date of that termination. (T)

For a CCA Service Biogas Customer-Generator, Generation Rate Component credits, if any, do not reduce the charges owed to PG&E for energy supplied to the eligible customer-generator. (N)

The Reconciliation shall be performed as follows:

a. NEMBIO customer-generators will receive a bill that totals 1) all Generation Rate Component charges for the Relevant Period; 2) all Eligible Generation Credits for the Relevant Period; and 3) all other charges due in that billing cycle of the Relevant Period.

The "Eligible Generation Credit" equals the lesser of 1) all monthly Generation Rate Component charges for the Relevant Period, including in the case of a dairy operation the Generation Rate Component charges associated with accounts eligible for Special Condition 4; or 2) the absolute value of all monthly Eligible Generation Credits for the Relevant Period. Any excess credit that exceeds the Eligible Generation Credit for the Relevant Period will be retained by PG&E, or CCA, if applicable, and the customer will not be owed any compensation for this excess. (T)

For non-dairy operations with no Load Aggregation as defined in Special Condition 4, only the account serving the Eligible Biogas Digester Generating Facility is used to determine Generation Rate Component charges.

For dairy operations with Load Aggregation as defined in Special Condition 4, the Generation Rate Component charges for the usage from all the Eligible Service Accounts is used to determine the Eligible Generation Credit.

b. In the case of Load Aggregation for dairy operations, defined in Special Condition 4, each Eligible Service Account will be billed for Generation Rate Component charges, based on the rate schedule for the particular service account, at the end of the Relevant Period, or sooner if the account closes, experiences a change in electric commodity service provider, or is no longer eligible for Load Aggregation. (T)

(Continued)



ELECTRIC SCHEDULE NEMBIO

Sheet 6

NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: Prior to receiving approval for Parallel Operation, the customer-generator must submit a completed PG&E application form and interconnection agreement as follows:

SUB-SCEHDULE NEMBIO	Application <i>Generating Facility Interconnection Application, (Form 79-974)</i>	Interconnection Agreement <i>Interconnection Agreement for Net Energy Metering of Eligible Biogas Digester Generating Facilities, (Form 79-997)</i>
NEMBIOA	<i>(same as for NEMBIO)</i>	<i>(same as for NEMBIO but with Appendix C completed listing aggregated TOU load accounts)</i>
NEMMT (Multiple Tariff Facilities – See Special Condition 6)	<i>(same as for NEMBIO)</i>	<i>Generating Facility Interconnection Agreement (Multiple Tariff) (Form 79-1069)</i>

(N)

(Continued)



ELECTRIC SCHEDULE NEMBIO

Sheet 7

NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

SPECIAL
CONDITIONS:
(Cont'd.)

- 4. **LOAD AGGREGATION:** PG&E shall aggregate the load of TOU service accounts of dairy operations that are located on property adjacent, or contiguous, to the Eligible Biogas Digester Electrical Generating Facility including but not limited to accounts associated with the milking operations, milk refrigeration, or water pumping ("Eligible Service Account"). If a dairy operation has more than one Eligible Service Account, all such service accounts must be under the same ownership and Biogas Customer-Generator name, and be served by the same electric commodity service provider, as the account serving the Eligible Biogas Digester Electrical Generating Facility. (T)
- 5. **STANDBY CHARGES:** Consistent with electric Rate Schedule S – *Standby Service*, to the extent that charges for transmission and distribution services are recovered through demand charges in any billing period, no standby charges shall apply in that monthly billing cycle except Multiple Tariff Facilities interconnected under the terms of Special Condition 6, may be subject to the requirements of Schedule S. (T)
- 6. **MULTIPLE TARIFF FACILITIES:**
Multiple Tariff Facilities have the following additional provisions:
 - a. When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section F.
 - b. A NEM-eligible Constituent Generator Group is defined as a constituent generator group that is eligible for service under the provisions of either schedule NEM, NEMBIO or NEMFC or their sub-schedules.
 - c. A non-NEM-eligible Constituent Generator Group is defined as a constituent generator group that does not take service under the provisions of schedules NEM, NEMBIO or NEMFC, but interconnects under the provisions of Electric Rule 21.
 - d. All metering for Multiple Tariff Facilities called for in this special condition must meet the requirements needed to bill under the customer-generator's OAS. All metering equipment and Non Export relays necessary to implement the provisions in this section will be provided at the Customer-Generator's expense.
 - e. Any generators eligible for tariff NEMBIOA (accounts with the load from Eligible Service Accounts aggregated on the main NEMBIO account pursuant to Special Condition 4) will be treated as a separate Constituent Generator Group.

(Continued)

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ELECTRIC SCHEDULE NEMBIO Sheet 8
NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

SPECIAL
CONDITIONS:
(Cont'd.)

6. MULTIPLE TARIFF FACILITIES: (Cont'd.) (N) (D)
- f. Where multiple NEM-eligible Constituent Generator Groups are present, and energy (kWh) is exported to the grid at the PCC, the billing credit will be based upon the proportional contribution of the energy production (kWh) of each NEM-eligible Constituent Generator Group over the billing period as follows:
- 1) Sum all NEM-eligible Constituent Generator Groups' NGOM reading.
 - 2) Determine the proportion of energy (kWh) attributable to each NEM-eligible Constituent Generator Group by dividing the NGOM reading of each by the sum from (1) above.
 - 3) NEM-eligible Export is the lesser of either all exported energy (kWh) as measured at the PCC or the sum of the energy (kWh) per (1) above.
 - 4) Take the NEM-eligible Export and assign it to each NEM-eligible Constituent Generator Group based on its respective proportion of NGOM reading.
 - 5) Determine the bill credit for the customer-generator as provided under the customer-generator's OAS in combination with the net energy metered tariff billing treatment type for each NEM-eligible Constituent Generator Group.
 - 6) If interval metering is chosen per, Special Condition 6(g)(2)(c) below, this allocation of bill credit will be done on the aggregated intervals over a billing period. If the OAS is a time-of-use (TOU) rate schedule, the allocation will be performed for each aggregated TOU period separately.
- g. Multiple Tariff Facility Configurations and Metering.
- 1) For two or more types of NEM-eligible Constituent Generator Groups, the customer-generator must select one of the following options:
 - a) Install NGOM on each Constituent Generator Group. In addition, metering is required at the PCC capable of separately registering the flow of energy (kWh) in two directions. Billing credit will be calculated as provided for in Special Condition 6(f). Billing credit will be applied consistent with the appropriate net metering tariff as follows:
 - i. First, apply NEMBIO credits (if any) to Generation Rate Component charges on any aggregated accounts, and then to Generation Rate Component charges on the account served by the generating facility (Host Account).
 - ii. Second, apply NEMFC credits (if any) to Generation Rate Component charges on the account served by the generating facility.
 - iii. Third, apply NEM credits (if any) as appropriate to the remainder of energy charges on the account served by the generating facility.

(Continued)



ELECTRIC SCHEDULE NEMBIO Sheet 9
NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATOR

SPECIAL
CONDITIONS:
(Cont'd.)

- 6. Multiple Tariff Facilities: (Cont'd.)
 - g. Multiple Tariff Facility Configurations and Metering. (Cont'd.)
 - 1) For two or more types of NEM-eligible Constituent Generator Groups (Cont'd)
 - b) If the customer-generator has no Constituent Generator Group(s) eligible for Schedule NEMBIOA, but has a Constituent Generator Group eligible for Schedule NEM consisting of one or more Renewable Electrical Generation Facilities, the customer-generator may elect to take service for such under either Schedules NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).
 - 2) For both, NEM-eligible and non-NEM-eligible Constituent Generator Groups, the Customer-Generator must select one of the following options:
 - a) **The Non Export Relay Option:** A customer-generator must install a non-export relay on their non-NEM Constituent Generator Groups and install metering as follows: 1) If there is only one type of Constituent Generator Group then metering at the PCC is all that is required and the terms of the appropriate NEM tariff for that group will apply; 2) If there are two or more types of NEM-eligible Constituent Generator Groups, then Metering at the PCC and NGOM metering of each NEM-eligible Constituent Generator Group is required. The requirements of Special Condition 6(f) and 6(g) apply.
 - b) **The Load Metering Option:** The customer-generator must install NGOM on each NEM-eligible Constituent Generator Group, install energy consumption metering at the load, and install metering at the PCC as follows: 1) If there is one type of NEM-eligible Constituent Generator Group then the terms of the appropriate NEM tariff for that group will apply; 2) If there are two or more types of NEM-eligible Constituent Generator Groups, then the terms of Special Condition 6(f) and 6(g) apply.
 - c) **The Interval Meter Option:** The customer-generator must install interval NGOM on each NEM-eligible Constituent Generator Group and install interval metering at the PCC as follows: 1) If there is one type of Constituent Generator Group then the terms of the appropriate NEM tariff for that group will apply; 2) If there are two or more types of NEM-eligible Constituent Generator Groups, then the terms of Special Condition 6(f) and 6(g) for interval metering apply. Energies (kWh) generated in an interval are aggregated over a billing period according to the OAS.
 - h. Multiple Tariff Facilities, served under CCA Service, may only participate to the extent their CCA offers net metering for the specific constituent generator group(s). (N)
 - i. For Multiple Tariff Facilities involving NEM2 NEM-eligible Constituent Generator Groups, see the special condition for MULTIPLE TARIFF FACILITIES in schedule NEM2. (N)