

Schedule BG-NEM  
Biogas Net Energy Metering

Sheet 1

APPLICABILITY

Applicable to Bundled Service Customers and Community Choice Aggregation Service (CCA Service) Customers served under a Time-of-Use (TOU) rate schedule who: (1) interconnect and operate in parallel with SCE's electrical system an Eligible Biogas Digester Electrical Generating Facility, as defined herein below, with a generating capacity no greater than 1 MW, located on or adjacent to the customer's Premise, intended to offset part or all of the customer's electrical requirements, and (2) is the recipient of local, state, or federal funds, or who self-finance projects designed to encourage the development of Eligible Biogas Digester Electrical Generating Facilities, and (3) have commenced operation of their Eligible Biogas Digester Electrical Generating Facility on or before December 31, 2009. (T)

This Schedule is also applicable to Bundled Service Customers utilizing a Multiple Tariff Generating Facility, as defined in Special Condition 7.f of this Schedule. All customers with a Multiple Tariff Generating Facility served under this Schedule shall additionally be subject to the provisions of Special Condition 6 of this Schedule.

Total nameplate capacity of all NEM Eligible Generators at a single point of common coupling (SCE billing meter) and/or Premises shall not exceed 1 MW. Where the total nameplate capacity of all NEM Eligible Generators exceeds 1 MW, all NEM Eligible Generators become ineligible for service under this Schedule. However, up to three (3) biogas digester electrical generators (no more than one at a single Premises), each with a nameplate generating capacity greater than one (1) MW but no greater than 10 MW, may be exempt from this provision if such generators meet the provisions of former PU Code 2827.9(b)(2)(A&B), since repealed. Except for customers utilizing a Multiple Tariff Generating Facility that includes one or more Non-NEM Eligible Generators, customers eligible for service under this Schedule are exempt from: (1) any new or additional charges not included in their Otherwise Applicable Tariff (OAT), and (2) Standby Charges (Schedule S). (T)

Customers utilizing a Multiple Tariff Generating Facility may be subject to Standby Charges, pursuant to the provisions of Schedule S, Special Condition 2.b, as well as other applicable charges not included in their OAT (e.g., Schedule CGDL-CRS and Schedule DL-NBC).

This Schedule is closed to new customers. (N)

Pursuant to Decision 08-02-002 and notwithstanding all applicable terms and conditions contained herein, to the extent a CCA offers net energy metering service for biogas customer-generators, SCE shall provide applicable NEM services under this schedule to an eligible CCA Service customer-generator consistent with services provided to its bundled service eligible customer-generators. As a condition of receiving service under this Schedule, the CCA shall be responsible for timely providing the applicable generation-related bill charges or credits for each CCA Service customer-generator to SCE. Each eligible CCA Service customer-generator shall look to its CCA for NEM services related to the electric generation charges and credits that result from receiving services under this schedule. The CCA shall also be responsible for the applicable generation-related bill credit structure associated with this service option and providing the CCA Service customer-generator with the applicable generation-related bill credit. Consistent with services provided to bundled service customer-generators, an eligible CCA Service customer-generator shall continue to be responsible, as provided herein, for all SCE charges, which are not subject to NEM under this schedule. (D)

(Continued)

(To be inserted by utility)  
Advice 2669-E  
Decision \_\_\_\_\_

Issued by  
Akbar Jazayeri  
Vice President

(To be inserted by Cal. PUC)  
Date Filed Dec 2, 2011  
Effective Jan 1, 2012  
Resolution \_\_\_\_\_



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APPLICABILITY (Continued)

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In addition to meeting all other requirements for participation on this Schedule, and prior to participation on this Schedule, an Eligible Biogas Digester Electrical Generation Facility required to operate using the best available control technology (BACT) must provide SCE with documentation that the BACT has been installed and is operational in accordance with the regional Air-Pollution Control District.

TERRITORY

Within the entire territory served.

(L)

RATES

In addition to the applicable rates of a customer's OAT, the following rates are applicable.

When a customer is a net consumer,  $E_S$  is greater than  $E_F$  where  $E_S$  is energy supplied by SCE and  $E_F$  is energy generated by an NEM Eligible Generator(s) served under this Schedule and exported into SCE's system, measured and valued in dollars monthly over an entire Relevant Period, as defined in Special Condition 6.e, the total net consumed kWh will incur an energy charge, calculated for each TOU period when such customer was a net consumer of energy ( $E_S$  exceeds  $E_F$ ) by 1) multiplying the total net consumed kWh over a month by the applicable energy rate components of the customer's OAT for Bundled Service Customers, or 2) multiplying the total net produced kWh by the applicable CCA generation rate components for CCA Service Customers. At the end of the Relevant Period Special Condition 5.b shall be invoked. Additionally, all other charges shall be calculated in accordance with the customer's OAT, for  $E_S$  (energy supplied by SCE) and shall be due and payable monthly, in accordance with SCE's normal monthly billing cycle.

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(To be inserted by utility)

Advice 2222-E  
Decision 08-02-002

Issued by  
Akbar Jazayeri  
Vice President

(To be inserted by Cal. PUC)

Date Filed Mar 5, 2008  
Effective Apr 4, 2008  
Resolution \_\_\_\_\_



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RATES (Continued)

When a customer is a net producer,  $E_F$  is greater than  $E_S$ , where  $E_S$  is energy supplied by SCE and  $E_F$  is energy generated by an NEM Eligible Generator(s) served under this Schedule and exported into SCE's system, measured and valued in dollars monthly over an entire Relevant Period, as defined in Special Condition 6.e, the total net produced kWh will be a generation credit, calculated by multiplying the total net exported kWh over a month by the applicable generation rate components of the customer's OAT, in each TOU period, excluding surcharges to cover the purchase of power by the Department of Water Resources, to which the customer would be assigned if the customer did not use an eligible biogas electrical generating facility. At the end of the Relevant Period Special Condition 5.b shall be invoked. Additionally, all other charges shall be calculated in accordance with the customer's OAT, for  $E_S$  (energy supplied by SCE) and shall be due and payable monthly, in accordance with SCE's normal billing cycle.

SPECIAL CONDITIONS

1. Required Application and Contract: A Generating Facility Interconnection Application (Form 14-732) and a Biogas Digester Net Energy Metering and Interconnection Agreement (Form 14-750) are required for service under this Schedule.
2. Load Aggregation: Customers served under this Schedule that have dairy operations with more than one TOU metered service account, located on the property adjacent or continuous to the customer's Eligible Biogas Digester Electrical Generating Facility, and where such dairy operations includes the milking process, or milk refrigeration, or water pumping of the customer's dairy operations, shall have such TOU metered service accounts' generation components of the energy charges aggregated. At the end of the Relevant Period, if the customer's service account interconnecting the Biogas Digester Generating Facility with SCE's electrical system, has any remaining generation credits after Special Condition 5.b.2 has been invoked, such remaining generation credits will be applied to the customer's dairy operations TOU metered service accounts that qualify for this Special Condition. If there are unused generation credits at the end of the Relevant Period after invoking this Special Condition to all of the customer's dairy operations TOU metered service accounts, Special Condition 5.b.3 shall apply. All other charges shall be calculated monthly on all customer service accounts eligible for this Special Condition and shall be due and payable monthly, in accordance with SCE's normal monthly billing cycle.

Customers who utilize a Multiple Tariff Generating Facility (defined in Special Condition 7.g) and who participate in this Schedule's Load Aggregation option, will have such group of eligible generators considered as a separate group of NEM Eligible Generators.

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(To be inserted by utility)

Advice 2222-E  
Decision 08-02-002

Issued by  
Akbar Jazayeri  
Vice President

(To be inserted by Cal. PUC)

Date Filed Mar 5, 2008  
Effective Apr 4, 2008  
Resolution \_\_\_\_\_

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SPECIAL CONDITIONS (Continued)

3. Metering Requirements for all Customers Except Those Utilizing a Multiple Tariff Generating Facility Under Special Condition 6:

- a. Biogas Digester Net Energy shall be measured (metered) using a TOU meter capable of separately registering the flow of energy in two directions. If the customer's existing meter is not capable of satisfying the requirements to participate on this Schedule, such meter shall be installed by SCE at the customer's expense prior to interconnection to SCE's electric system.
- b. If SCE determines that dual metering is required for the purposes set forth herein, such customer shall consent to, and pay all costs associated with the installation of dual metering, prior to interconnecting to SCE's electrical system.
- c. Dairy operations with service accounts that qualify for Special Condition 2 are required to meet the provisions of Special Condition 3.a and 3.b for the account serving the Eligible Biogas Digester Electrical Generating Facility only, all other service accounts are only required to be TOU.

4. Grandfathered Biogas Digester Electrical Generating Facilities:

A customer with an Eligible Biogas Digester Electrical Generating Facility that has commenced operation on or before December 31, 2009, and is currently receiving service under this Schedule, shall remain eligible to receive service under this Schedule for the duration of the operating life of the Eligible Biogas Digester-Electrical Generating Facility.

5. Billing:

- a. With each monthly bill SCE shall provide the customer with information on both the energy supplied by SCE, and the energy generated by the NEM Eligible Generator(s) and exported into SCE's system, as calculated in each TOU period, over the applicable Relevant Period. For CCA Service Customers, the CCA is responsible for providing SCE the billing CCA generation charges or credits applicable to NEM CCA Service customer generators. Such monthly bill(s) shall include accumulated net kWh exported, along with the corresponding value of the generation energy credit, and/or accumulated net kWh consumed, along with the corresponding generation component of the energy charge for each TOU period, over the applicable Relevant Period. All charges except the generation component of the energy charge shall be due and payable monthly, in accordance to SCE's normal monthly billing cycle for all accounts served on this Schedule. This Special Condition applies to all eligible Load Aggregation dairy operations TOU service accounts, as defined in Special Condition 2.

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If interval meters are employed, the total energy of the aggregated intervals over a billing period is valued in each TOU period separately, before offsetting the generation component of the energy charges with the generation energy credits.

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(To be inserted by utility)

Advice 2222-E  
Decision 08-02-002

Issued by  
Akbar Jazayeri  
Vice President

(To be inserted by Cal. PUC)

Date Filed Mar 5, 2008  
Effective Apr 4, 2008  
Resolution \_\_\_\_\_

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SPECIAL CONDITIONS (Continued)

5. Billing: (Continued)

b. At the end of each Relevant Period, as defined in Special Condition 7.e, SCE shall proceed as follows:

1. SCE will present the customer with their annual Relevant Period bill, which will include the current month's charges in addition to any outstanding accumulated Relevant Period generation component of the energy charges, and shall be due and payable in accordance to SCE's normal billing cycle.

2. Where a customer's value of generation energy credits exceeds its generation component of the energy charges, in any TOU period, as calculated in the Rates Section of this Schedule, such excess generation energy credits will be applied to any remaining generation component of the energy charges in other TOU periods.

3. After execution of 5.b.2 above, any remaining generation component of the energy credits will be applied to any remaining generation energy charges for qualified Load Aggregation TOU service accounts, after which, any unused generation energy credits shall be zeroed out without compensation to the customer and a new Relevant Period shall commence.

4. For CCA Service Customers, the CCA shall complete an annual true up of all generation charges and credits calculated monthly, consistent with the provisions set forth under this schedule. Credits and charges related to the CCA's generation services shall be based on the information provided by the CCA to SCE. Any net balance related to generation charges that are collected from an eligible NEM CCA Service customer-generator will be paid annually by SCE to the CCA as set forth in Rule 23, Section Q, which describes the payment and collection terms between SCE and a CCA Service Customer. The charges or credits resulting from a CCA's generation services shall not be co-mingled with charges or credits resulting from services provided by the SCE. (N)

c. If a customer terminates service under this Schedule prior to the end of the Relevant Period, SCE shall reconcile the customer's consumption and production of electricity and bill the customer for positive Net Energy charges, if any, as provided in Special Condition 5.b. An eligible customer-generator switching from CCA Service to Bundled Service or from Bundled Service to CCA Service during the Relevant Period shall be deemed as terminating service under this Schedule prior to the end of the Relevant Period, and SCE shall reconcile the customer's consumption and production of Period electricity and bill the customer for positive Net Energy charges, if any, as provided in Special Condition 5.b. Upon switching, the customer shall begin a new Relevant Period. (T)

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(Continued)

(To be inserted by utility)

Advice 2222-E  
Decision 08-02-002

Issued by

Akbar Jazayeri  
Vice President

(To be inserted by Cal. PUC)

Date Filed Mar 5, 2008  
Effective Apr 4, 2008  
Resolution \_\_\_\_\_

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6. Customers with a Multiple Tariff Generating Facility: Where a customer utilizes a Multiple Tariff Generating Facility (defined in Special Condition 7.f) the applicable provisions of this Special Condition (6) shall apply. Additionally, where this Special Condition conflicts with any other Special Condition within this Schedule, the provisions contained in this Special Condition shall prevail. (L)

a. A customer utilizing a Multiple Tariff Generating Facility consisting of all NEM Eligible Generators, where at least one Generator is served under this Schedule shall adhere to the following:

1. Where a customer chooses not to install separate Net Generation Output Metering (NGOM) on each group of NEM Eligible Generators (as defined in Special Condition 7.i.), all energy exported to SCE's system from any group of NEM Eligible Generators shall receive only the generation component of the (URG and DWR) energy credits per the customer's OAT. The NEM credits will not include any portion of the Delivery Service energy rate components, or any other component of the customer's OAT, unless separate NGOMs are installed on each group of NEM Eligible Generators. (L)

2. Where a customer chooses to install NGOM on a group of NEM Eligible Generators, the NGOM must conform to the requirements set forth in SCE's Rule 21, Section F. The total energy exported to SCE's system, as determined at the point of common coupling meter (SCE billing meter) will be allocated to each group based on its NGOM reading to the total of all NGOM readings. As an example, if the SCE billing meter registered 900 kWh of energy exported to SCE's system, and during that same time period a group of NEM Eligible Generators (group 1) had an NGOM registration of 2,000 kWh, while another group of NEM Eligible Generators (group 2) had an NGOM registration of 4,000 kWh, then group 1 would be allocated 300 kWh, while group 2 would be allocated 600 kWh, for NEM crediting purposes.

b. A customer with a Multiple Tariff Generating Facility consisting of one or more NEM Eligible Generators served under this Schedule, and one or more Non-NEM Eligible Generators (defined in Special Condition 7.h), shall adhere to the following:

1. Where all Non-NEM Eligible Generators have a non-export relay (Reverse or minimum power protection) per tariff Rule 21, Section I.3.b, Screen 2 (Options 1 or 2), thus assuring no export to SCE's system from any Non-NEM Eligible Generator, the customer is not required to install NGOM on their NEM Eligible Generators. However, where a customer's Multiple Tariff Generating Facility includes more than one group of NEM Eligible Generators, NGOM in accordance with Special Condition 6.a.2 above must be installed on each group of NEM Eligible Generators to determine what percentage of the measured excess energy exported to SCE's system will receive NEM energy credits at the full bundled rate (Delivery Service plus Generation) and what percentage of the measured excess energy exported to SCE's system will receive NEM energy credits at the generation rate components only (URG and DWR). Otherwise, unallocated NEM-eligible excess energy exported to SCE's system will be subject to the provisions of 6.a.1 above.

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(To be inserted by utility)

Advice 2222-E  
Decision 08-02-002

Issued by

Akbar Jazayeri  
Vice President

(To be inserted by Cal. PUC)

Date Filed Mar 5, 2008  
Effective Apr 4, 2008  
Resolution \_\_\_\_\_

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SPECIAL CONDITIONS (Continued)

6. Customers with a Multiple Tariff Generating Facility: (Continued)

- 2. Where one or more of the customer's Non-NEM Eligible Generators does not have a non-export relay and where each group of NEM Eligible Generators does not have NGOM installed in accordance with Special Condition 6.a.2 above, NEM credits will only be applicable on the groups of NEM Eligible Generators that do have NGOMs
- 3. Monthly valued NEM credits for each of the NEM-eligible generator groups with NGOM will be the lesser of its proportion of the NGOM reading to the total of all NEM-eligible generators' NGOM readings, multiplied by the total exported energy (NEM-eligible and non-NEM-eligible) as measured at the PCC, or its NGOM reading

The value of energy credits will be applied consistent with the appropriate NEM tariff as follows:

- I) First, apply BG-NEM generation rate component credits (if any) to generation rate component charges on any aggregated account served by the Generating Facility.
- II) Second, apply any remaining BG-NEM credits from (I) above and FC-NEM generation rate component credits (if any), and Wind NEM (>50 kW) generation rate component credits (if any) to the remainder of generation rate component charges on the account served by the Generating Facility.
- III) Third, apply Renewable Generating Facility energy credits to energy charges of the accounts that are served by the Generating Facility. (T)
- IV) For purposes of tariff administration, other metering configurations may be allowed at SCE's discretion.

7. Definitions: The following definitions are applicable to service provided under this Schedule.

- a. Eligible Biogas Digester Electrical Generating Facility: A generating facility used to produce electricity by either a manure methane production project or as a byproduct of the anaerobic digestion of bio-solids and animal waste that meets all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the Public Utilities Commission regarding safety and reliability. (T)
- b. Date of Parallel Operation: The date SCE provides the customer with SCE's written approval to commence parallel operation of the Generating Facility for purposes of participating on this Schedule. (T)

(Continued)

(To be inserted by utility)  
Advice 2669-E  
Decision \_\_\_\_\_

Issued by  
Akbar Jazayeri  
Vice President

(To be inserted by Cal. PUC)  
Date Filed Dec 2, 2011  
Effective Jan 1, 2012  
Resolution \_\_\_\_\_

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SPECIAL CONDITIONS (Continued)

7. Definitions: The following definitions are applicable to service provided under this Schedule.

- c. Net Energy: The difference between the electric energy supplied and/or delivered through SCE, and the electric energy produced by the customer and exported into SCE's electric system, measured over the Relevant Period. Thus, where  $E_S$  is energy supplied and/or delivered by SCE, and  $E_F$  is energy generated by the customer and exported into SCE's system:

$$\text{Net Energy} = E_S \text{ minus } E_F$$

- d. Otherwise Applicable Tariff (OAT): The customer's regular filed rate schedule under which service is rendered.
- e. Relevant Period: A twelve-month period, or portion thereof, commencing on the anniversary Date of Parallel Operation of the customer's NEM Eligible Generator with SCE's electric system.
- f. Multiple Tariff Generating Facility: A Generating Facility consisting of one or more NEM Eligible Generators served under this Schedule and one or more NEM Eligible Generators eligible for service under Schedule NEM and/or Schedule FC-NEM, or consisting of one or more NEM Eligible Generators served under this Schedule, and one or more Non-NEM Eligible Generators.
- g. NEM Eligible Generator: A Renewable Electrical Generating Facility (defined in Schedule NEM-Net Energy Metering) or facility served under Schedule FC-NEM and Schedule BG-NEM, where the total nameplate generating capacity at a single Premise does not exceed 1 MW, except that one or more biogas digester electrical generators, each with a nameplate generating capacity greater than 1 MW, but no greater than 10 MW, may be defined as an NEM Eligible Generator if such generator meets the applicable provisions of former PU Code 2827.9(b)(2)(A&B), since repealed. (T)  
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- h. Non-NEM Eligible Generator: An electrical generator that does not meet the definition of Special Condition 7.g, above. (T)
- i. Group of NEM-eligible generators: Generators meeting the definition of Special Conditions 7.g above qualifying for the same NEM tariff provisions for credits. Thus, a Renewable Electrical Generating Facility would form one group, biogas generators without aggregated accounts and fuel cell generators would form a second group and Biogas generators with aggregated accounts would form a third group. (T)  
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(To be inserted by utility)  
Advice 2669-E  
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Issued by  
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Vice President

(To be inserted by Cal. PUC)  
Date Filed Dec 2, 2011  
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