

May 29, 2014

California Public Utilities Commission  
Energy Division  
ED Tariff Unit  
505 Van Ness Avenue, 4<sup>th</sup> Floor  
San Francisco, CA 94102

**Re: Substitute Sheets for Advice 4418-E**

Dear Energy Division Tariff Unit:

An original and 1 copy of substitute sheets are attached for Pacific Gas and Electric Company (PG&E) Advice 4418-E, *"Modification of Schedules NEM, NEMV, NEMVMASH pursuant to Decision (D.) 14-03-041 and Assembly Bill 327"*.

On May 19, 2014, PG&E submitted the above-referenced advice letter and proposed to remove Special Condition 4 from its Electric NEM tariffs as stated on page 5 of the letter. PG&E subsequently discovered that the NEM tariffs in Advice 4418-E were not revised accordingly. The attached substitute sheets make the necessary corrections as follows:

- Removes Special Condition 4 and obsolete language
- Renumbers Special Conditions 5 through 8 to 4 through 7
- Updates references to the affected Special Conditions accordingly

In accordance with General Order 96-B, Section 7.5.1, the substitute sheets are being served in the same manner as the original advice letter. For administrative convenience, complete sets of Electric Schedule NEM tariffs, Attachment 1, and the table of contents are attached. Please discard the previously submitted version of the same.

Please telephone me at (415) 972-5505 should you have any questions regarding the substitute sheets.

/S/ Shirley Wong

**Shirley Wong**  
Regulatory Relations



**ELECTRIC SCHEDULE NEM  
 NET ENERGY METERING SERVICE**

Sheet 1

APPLICABILITY: This net energy-metering schedule is applicable to a customer who uses a Renewable Electrical Generation Facility as defined below with a capacity of not more than 1,000 kilowatts that is located on the customer's owned, leased, or rented premises, is interconnected and operates in parallel with PG&E's transmission and distribution systems, including wind energy co-metering customers as defined in California Public Utilities Code Section 2827.8, and is intended primarily to offset part or all of the customer's own electrical requirements (hereinafter "eligible customer-generator" or "customer"). Subject to the requirements of Special Condition 7, Load Aggregation to determine the customer's own electrical requirements is permitted. Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Electric Service Providers (ESPs) serving eligible customer-generators. (T)

This service is not applicable to a Direct Access (DA) customer where the customer's ESP does not offer a net energy metering tariff. In addition, if the tariffs for the customer's ESP do not permit Load Aggregation, as described in Special Condition 7, this option is not available to the DA customer. In addition, if an eligible customer-generator participates in direct transactions with an ESP that does not provide distribution service for the direct transactions, the ESP, and not PG&E, is obligated to provide net energy metering to the customer. (T)

NEM Cap: This rate schedule is available on a first-come, first-served basis to customers that provide PG&E with: (T)

(a) a completed Net Energy Metering Application including all supporting documents and required payments; AND

(b) a completed signed Net Energy Metering Interconnection Agreement; AND

(c) evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the Electrical Generation Facility,

until the earlier of:

(i) July 1, 2017, or

(ii) such time as the Total Rated Generating Capacity used by eligible customer-generators and Qualified Customers on Rate Schedules NEM, NEMV and NEMVMASH exceeds the maximum of five (5) percent of PG&E's Aggregate Customer Peak Demand or 2409 megawatts of nameplate generating capacity.

Once this cap has been reached, Schedules NEM, NEMV and NEMVMASH will be closed to new customers. The NEM Transition Provisions below will apply here.

Total Rated Generating Capacity: The total rated generating capacity of eligible customer-generators will be calculated as the sum of all of the following: (T)

1) For each PV generating facility, PG&E will use the California Energy Commission's (CEC) AC rating; or where the CEC AC rating is not available, PG&E will multiply the inverter AC nameplate rating by 0.86.

2) For all other Renewable Electrical Generation Facilities, PG&E will use the AC nameplate rating of the generating facility. (L)

(Continued)

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 Decision No. 14-03-041

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 Vice President  
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~~ELECTRIC SCHEDULE~~  
~~NET ENERGY METERING SERVICE~~

Sheet 2

APPLICABILITY  
 (Cont'd):

PG&E's Aggregate Customer Peak Demand: PG&E's aggregate customer peak demand is the sum of customers' non-coincident peak demands defined in Decision (D.) 14-03-041. The methodology for calculating customer's non-coincident aggregate peak demand is detailed in Attachment 1 of D.14-03-041, which requires the following:

(T)(L)  
 (L)

- 1) Using load research data to calculate non-coincident aggregate peak demand;
- 2) Using a four-year moving average based on annual load research data;
- 3) If the non-coincident aggregate peak demand decreases in a given year, the NEM cap will remain at the previously determined level and may not decrease below the most recent level determined;
- 4) Using 15-minute interval data for calculating non-coincident aggregate customer peak demand when including 2012 data in the four-year moving average. 15- or 30-minute interval data may be used when incorporating data prior to 2012 into the four-year moving average.

(L)  
 (N)

NEM Transition Provisions

- A. NEM Transition Period: Customers taking service on this tariff may remain on this tariff from (i) the date of the issuance of the "permission to operate" (PTO) letter until (ii) the date of the customer's first Energy True Up in the twenty first (21<sup>th</sup>) year.
- B. Transition Option: NEM, NEMV or NEMVMASH customer-generators eligible for the 20-year transition period in the NEM Transition Period Section above may be moved to the successor tariff when available, before the expiration of the system's transition period upon request of the eligible customer-generator. Customers who elect to move to the successor tariff prior to the expiration of their NEM Transition Period may not later move back to their previously applicable NEM, NEMV or NEMVMASH tariff, and instead will permanently forfeit continued eligibility for the NEM Transition Period for the Renewable Electrical Generation Facility.
- C. Modifications: NEM, NEMV or NEMVMASH Renewable Electrical Generation Facilities eligible for the NEM Transition Period that are modified or repaired shall remain eligible as long as the modifications or repairs do not increase the Renewable Electrical Generation Facility's generating capacity by more than the greater of:
  - (i) 10 percent of the Renewable Electrical Generation Facility's generating capacity specified in the original PTO establishing the NEM Transition Period; or
  - (ii) 1 kilowatt,
 so long as it otherwise continues to remain eligible for NEM, NEMV, or NEMVMASH.

(N)

(Continued)

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Sheet 3

APPLICABILITY:  
 (Cont'd.)

- C. Modifications : (Cont'd.) Customer-generators making modifications that increase the Renewable Electrical Generation Facility's size by more than the above amounts may either choose to (i) meter the additions separately under the successor tariff or (ii) elect for the whole system to take service under the successor tariff. (N)
- D. Change Party: Renewable Electrical Generation Facilities eligible for the 20-year transition period shall not lose eligibility if transferred to a new owner, operator, or PG&E account at the original location, except if the Transition Option is selected.
- E. Storage To the extent that eligible energy storage systems are granted interconnection exemptions under Net Energy Metering, they shall be treated in the same way, and subject to the same transition period, as the underlying Renewable Electrical Generation Facility to which they are connected. (N)

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. (L)

A Renewable Electrical Generation Facility means a generating facility that generates electricity by using:

- a) biomass,
- b) solar thermal,
- c) photovoltaic,
- d) wind,
- e) geothermal,
- f) fuel cells using renewable fuels,
- g) small hydroelectric generation (but a small hydroelectric generation facility is not an eligible Renewable Electrical Generation Facility if it will cause an adverse impact on instream beneficial uses or cause a change in the volume or timing of streamflow),
- h) digester gas,
- i) municipal solid waste conversion,
- j) landfill gas,
- k) ocean wave,
- l) ocean thermal, or
- m) tidal current,

and any additions or enhancements to the facility using that technology pursuant to paragraph (1) of subdivision (a) of Section 25741 of the Public Resources Code. These renewable sources are defined in the latest version of the California Energy Commission's (CEC's) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook.<sup>3</sup> (L)

<sup>3</sup> The RPS Guidebooks can be found at: <http://www.energy.ca.gov/renewables/documents/index.html#rps> (L)

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**ELECTRIC SCHEDULE  
 NET ENERGY METERING SERVICE**

Sheet 5

**APPLICABILITY:** Demand Response Programs - (L)  
 (Cont'd.) For Load Aggregation pursuant to Special Condition 7, Aggregated Accounts, including (T)  
 the Generating Account, are eligible for the same demand response programs and solar  
 tariffs as NEM customers. Demand response payments to Aggregated Accounts will be  
 based on the Qualified Customer's metered usage disregarding any contributions  
 allocated from the Generating Account. Similarly, any other demand response  
 programmatic elements that are affected by a customer's load (e.g., program eligibility)  
 shall also exclude from consideration any impacts of Generator Account generation. Any  
 payments for demand response will be limited to the customer's load, and not include  
 excess generation exported to the grid.

**TERRITORY:** The entire territory served.

**RATES:** All rates charged under this schedule will be in accordance with the eligible customer-  
 generator's PG&E otherwise-applicable metered rate schedule (OAS). An eligible  
 customer-generator served under this schedule is responsible for all charges from its  
 OAS including monthly minimum charges, customer charges, meter charges, facilities  
 charges, demand charges and surcharges. The "Average Rate Limiter" for general  
 service OAS's and all other demand charges will be based on the demand in kilowatts as  
 measured only on the energy being consumed by the customer from PG&E. The power  
 factor, when it applies on the OAS, will be based on the energy consumed by the  
 customer-generator from PG&E and the average power factor over the past 12 billing  
 months of operation prior to starting on NEM. Customer-generators without 12 billing  
 months of power factor history, will have their power factor estimated based on the  
 nature of the connected facilities and their hours of operation. Power factor will be  
 subsequently applied to the customer-generator's bill until the customer-generator  
 demonstrates to PG&E's satisfaction that adequate correction had been provided.  
 PG&E will continue to monitor and review the power factor and if warranted, change the  
 power factor correction on the customer-generator's bills. Charges for energy (kWh)  
 supplied by PG&E, ESP or Community Choice Aggregator (CCA), as applicable, will be  
 based on the net metered usage in accordance with Billing (Special Condition 2, below).

For PG&E customer-generators, the energy charges will be in accordance with the  
 customer-generator's OAS. For ESP or CCA customer-generators, the ESP or CCA is  
 responsible for providing the billing information regarding the applicable generation-  
 related bill charges or credits to PG&E on a timely basis.

Customer-generators eligible for service under this schedule are exempt from the  
 requirements of Schedule S-Standby Service except Multiple Tariff Facilities  
 interconnected under the terms of Special Condition 4, may be subject to the (T)  
 requirements of Schedule S.

The charges and credits for Multiple Tariff Facilities taking service on this rate schedule  
 under the provisions of Special Condition 4, will be calculated using the applicable OAS (T)  
 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 4. This ensures that all NEM accounts (T)  
 have the same Relevant Period, as defined in Special Condition 2, going forward. (L)

(Continued)

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~~ELECTRIC SCHEDULE NEM~~  
~~NET ENERGY METERING SERVICE~~

Sheet 6

|                     |  |                 |
|---------------------|--|-----------------|
| RATES:<br>(Cont'd.) | PG&E rates and rate design, including the rates and rate design reflected in this Tariff, are subject to change from time to time. Customers should take this into consideration when making any long term decisions based on rate structures that are currently in place.                   | (N)<br> <br>(N) |
| SUB-SCHEDULES:      | Eligible customer-generators will be placed on the appropriate sub-schedule as described below:  | (L)             |
|                     | 1. NEMS – For Small Customer (as defined in Rule 1) customer-generators taking service with solar and/or wind generating facilities of 30 kilowatts or less.   |                 |
|                     | 2. NEMEXP – For Small Customer (as defined in Rule 1) customer-generators with (i) solar and/or wind generating facilities or 1,000 kilowatts or less, other than facilities of 30 kilowatts or less, or (ii) any other Renewable Electrical Generation Facility of 1,000 kilowatts or less. |                 |
|                     | 3. NEMEXPM – For all other commercial, industrial customer-generators, and agricultural customers billed monthly under Special Condition 2.  |                 |
|                     | 4. NEMMT – For customer-generators taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff.  | (T)             |
|                     | 5. NEMA – For a customer-generator with a Load Aggregation Arrangement pursuant to Special Condition 7 of this tariff.   | (L)(T)          |

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Sheet 7

SPECIAL  
 CONDITIONS:

1. METERING: Multiple Tariff Facilities will be metered under one of the options described in Special Condition 4. All other net energy metering shall be accomplished using a single meter capable of registering the flow of electricity in two directions. If the eligible customer-generator's existing electrical meter is not capable of measuring the flow of electricity in two directions, the eligible customer-generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to measure electricity flow in two directions. An additional meter or meters, installed in a dual meter socket ("dual metering"), to monitor the flow of electricity in each direction may be installed with the consent of the eligible customer-generator, at the expense of PG&E, and the dual metering shall be used only to provide the information necessary to accurately bill or credit the customer according to the utility's OAS or to collect Renewable Electrical Generation Facility electric generating system performance information for research purposes. PG&E shall determine whether dual metering is required under this provision. If dual metering is installed, the net energy metering calculation (see below) shall yield a result identical to that of a single meter capable of measuring the flow of electricity in two directions.

(L)  
 (T)

PG&E shall not require dual metering except where necessary for billing accuracy. If none of the normal metering options available at PG&E's disposal which are necessary to render accurate billing are acceptable to the customer-generator, PG&E shall have the right to refuse interconnection.

(D)

Customer-generators with Load Aggregation Arrangements will need metering on the Generating Account capable of separately measuring exports in a manner commensurate with the smallest time interval used by PG&E to establish billing determinates for any of the Aggregated Account meters. If a newly installed Renewable Electrical Generation Facility can use the existing metering, the metering charges will be based on applicable meter charges in the Generating Account OAS; if a new meter is requested by the customer for a new service as allowed in Special Condition 3, it must be installed at the customer's expense as a Special Facility using incremental costs, pursuant to Section I, Electric Rule 2.

For each Aggregated Account other than the Generating Account, an appropriate load account meter is required, consistent with the rate schedule for that account, and customer is responsible for all metering charges provided for in each Aggregated Account's OAS.

(L)

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**ELECTRIC SCHEDULE  
 NET ENERGY METERING SERVICE**

Sheet 8

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

2. BILLING: Facilities qualifying under Multiple Tariffs Facilities, see Special Condition 4.

(L)

(T)

For customer-generators taking service on OAS's, any net monthly consumption or production shall be valued as follows:

- a. For an OAS with Baseline Rates

Any net consumption or production shall be valued monthly as follows:

If the eligible customer-generator is a net consumer, the eligible customer-generator will be billed in accordance with the eligible customer-generator's OAS.

If the eligible customer-generator is a net generator, the net kWh generated shall be valued at the rate for the kWh up to the baseline quantity, with any excess kWh generated, valued at the rate for the appropriate tier level in which the equivalent kWh of usage would fall.

If the eligible customer-generator is being served under DA or CCA Service, ESP or CCA charges will be specified by their ESP or CCA in accordance with the eligible customer-generator's OAS and PG&E's Direct Access or Community Choice Aggregation tariffs. Applicable PG&E charges or credits will be valued as described in this Section 2.

For a DA or CCA Service 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.

- b. For an OAS with Time of Use (TOU):

If the eligible customer-generator is a net consumer during any discrete TOU period, the net kWh consumed shall be billed in accordance with that same TOU period in the eligible customer-generator's OAS.

If the eligible customer-generator is a net generator during any discrete TOU period, the net kWh produced shall be valued at the same price per kWh at the same TOU period in the eligible customer generator's OAS.

In the event that at the end of the monthly billing cycle, an eligible customer-generator's net usage for all TOU periods totals zero (i.e. net generation in one or more periods exactly offsets the net usage in all other periods), then the value of usage and/or generation will be calculated using Tier 1 rates (as set forth in the OAS).

If the eligible customer-generator is being served under DA or CCA Service, ESP or CCA charges will be specified by their ESP or CCA in accordance with the eligible customer-generator's OAS and PG&E's Direct Access or Community Choice Aggregation tariffs. Applicable PG&E charges or credits will be valued as described in this Section 2.

For a DA or CCA Service 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.

(L)

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Sheet 9

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

2. NET ENERGY METERING AND BILLING: (Cont'd.)

(L)

c. For an OAS with Minimum Charges:

Eligible customer-generators taking service on residential OAS's, the minimum charges have a customer-related component and an energy-related component. The applicable customer-related components of such minimum charges shall be treated as described in the OAS and billed monthly. The energy (kWh) related component shall be treated in the same manner as energy (kWh) consumed, as described in Section 2.e below, unless otherwise provided for in the OAS.

d. For a customer-generator electing Load Aggregation

For each monthly billing period, the energy (kWh) exported to the grid (in kilowatt-hours or kWh) by the Renewable Electrical Generation Facility shall be allocated to each of the Aggregated Account meters (kWh reading), as well as the Generating Account if it has load, based on the cumulative usage at each aggregated account and the cumulative generation from the generating account from the start of the Relevant Period. At the end of the month, once the allocation proportions are known, the kWh for each Generating Account meter interval will be allocated to each of the Aggregated Accounts for the corresponding interval.

Once the kWh is allocated to an eligible customer-generator's Aggregated Account, that account will be treated in accordance with (a), (b), and/or (c) above, as applies to the rate schedule on which the Aggregated Account takes service. The Generating Account will also be treated as an Aggregated Account in months where it has net load.

e. Payment Options:

Eligible Small Customer (as defined in Rule 1) customer generators may pay monthly or annually for the net energy (kWh) consumed. For all other commercial, industrial, and agricultural customers, the net balance of all moneys owed must be paid on each monthly billing cycle; when they are a net electricity producer over a monthly billing cycle, the value of any excess kilowatt-hours generated during the billing cycle shall be carried over to the following billing period and appear as a credit on the customer generator's account, until the end of the Relevant Period.

Aggregated Accounts, including the Generating Account in a Load Aggregation Arrangement must pay monthly for energy consumed.

f. Relevant Period:

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 NEM, and on every subsequent anniversary thereof. If an eligible customer-generator terminates service, or experiences a change in ESP or CCA 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 or ESP or CCA change.

(L)

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Sheet 10

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

2. NET ENERGY METERING AND BILLING: (Cont'd.)

(L)

f. Relevant Period: (Cont'd.)

For Load Aggregation, the Generating Account and all Aggregated Accounts will have the same billing cycle and Relevant Period, based on the interconnection date, or Anniversary thereof as described earlier in this paragraph. However, if an Aggregated Account terminates service, or experiences a change in ESP or CCA prior to the end of any 12 monthly billing cycles, its Relevant Period will consist of that period from the anniversary date until the effective date of that termination or ESP or CCA change. If an Aggregated Account is subsequently added, its Relevant Period will consist of that period from its effective date of inclusion in Load.

g. Energy True Up:

Net energy is defined as measuring the difference between the energy (kWh) supplied by PG&E, ESP or CCA, as applicable, through the electric grid to the eligible customer-generator and energy (kWh) generated by an eligible customer-generator and fed back into the electric grid over a Relevant Period.

For an Aggregated Account, (including a Generating Account) Net Energy is defined as measuring the difference between the energy (kWh) supplied by PG&E, ESP or CCA, as applicable, through the electric grid to the eligible customer-generator and the total energy (kWh) allocated to that Aggregated Account over a Relevant Period.

A true up is performed by PG&E and/or ESP or CCA, as applicable, at the end of each Relevant Period following the date the customer-generator was first eligible for Schedule NEM, or the date of PG&E's written approval to begin parallel operation of the generating facility for purposes of participating in NEM, whichever is later, and at each anniversary date thereafter. The eligible customer-generator shall be billed for energy (kWh) used during that period.

Where the residential minimum bill applies at the true up for a Bundled Service customer, no further amounts will be billed to the customer-generator as a result of the true up. Where the minimum bill applies at the true up for a customer generator that has taken DA, CCA Service or transitional bundled commodity cost service for all or part of the Relevant period, the customer-generator will be billed for all applicable energy-related components, provided no credit will be allowed for negative components unless the rate for such component is also negative.

If the customer-generator is taking service under DA or CCA Service, separate true-ups will be calculated for the applicable PG&E charges and credits and the ESP or CCA charges and credits. If PG&E is the electric commodity service provider, this condition may be modified where the customer has signed a contract to sell electricity to PG&E.

(L)

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Sheet 11

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

2. NET ENERGY METERING AND BILLING: (Cont'd.)

(L)

g. Energy True Up: (Cont'd)

For a DA or CCA Service 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.

If any Eligible customer-generator has any credits calculated pursuant to this Section 2 remaining at the end of the Relevant Period, that credit will be set to zero. However, in the event the energy (kWh) generated exceeds the energy (kWh) consumed during the Relevant Period, compensation shall be made for the excess energy (kWh) as described and allowed for in Special Condition 5.

(T)

Once the true-up is completed at the end of the Relevant Period, any overpayment for energy (kWh) from the true-up will be credited to future bill charges.

h. Billing Information:

If PG&E supplies the eligible customer-generator with energy (kWh), PG&E shall provide the eligible customer-generator with net energy (kWh) consumption information with each regular bill. That information shall include the current monetary balance owed PG&E for the net energy (kWh) consumed since the last Relevant Period ended.

i. Electric Service Provider (ESP) Charges:

If PG&E provides direct access (DA) metering for the ESP, UDC consolidated billing (that is, PG&E Consolidated Billing as described on PG&E's Rule 22), or ESP dual or consolidated billing support services for DA customer-generators served under PG&E's rates or their ESP's rates, PG&E may recover the incremental costs related to net energy metering from the customer's ESP, as described in Schedule E-ESP—Services To Electric Service Providers, and Schedule E-EUS—End User Service.

All accounts in a Load Aggregation Arrangement, including the Generating Account and all of its Aggregated Accounts, will normally all take service either only from PG&E, a single ESP or a single CCA. However, if PG&E is the billing agent, a mixture of electric commodity service providers may be permitted as long as PG&E agrees and recovers the additional incremental costs related to billing this Load Aggregation Arrangement from the customer's ESP and/or CCA based on the applicable rates in Schedules E-ESP and E-CCA.

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**ELECTRIC SCHEDULE  
 NET ENERGY METERING SERVICE**

Sheet 12

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: (L)

| Rate Option           | Application   | Interconnection Agreement   |
|-----------------------|---|---|
| NEMS                  | For Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less:<br><br>Application - Net Energy Metering Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151B) <sup>4</sup>  | Agreement and Customer Authorization - Net Energy Metering Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151A) <sup>4</sup>      |
| NEMEXP                | For Solar and/or Wind Net Energy Metering Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less:<br><br>Generating Facility Interconnection Application, (Form 79-974)<br><br>Expanded Net Energy Metering (NEM) Supplemental Application Form (Form 79-998)  | Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less (Form 79-978) |
|                       | For Renewable Electrical Generating Facilities other than Solar and/or Wind Electric Generating Facilities of 1,000 Kilowatts or Less:<br><br>(same as for Solar and/or Wind NEMEXP)  | Interconnection Agreement for Net Energy Metering For A Renewable Electrical Generation Facility Of 1,000 Kilowatts Or Less (Form 79-1137)  |
| NEMEXPM               | For all other commercial, industrial customer-generators, and agricultural customers billed monthly under Special Condition 2 with (i) Solar and/or Wind Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less, or any other Renewable Electrical Generation Facility of 1,000 Kilowatts or Less:<br><br>(same as for NEMEXP) | (same as for NEMEXP)  |
| NEMMT                 | For customer-generators taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff:<br><br>Generating Facility Interconnection Application (Form 79-974)   | Generating Facility Interconnection Agreement (Multiple Tariff) (Form 79-1069)  |
| NEM Inspection Report | To accompany a new interconnection agreement, as required under Special Condition 6 of this tariff:   | NEM/NEMVMA Inspection Report - (Form 79-1125)   |

<sup>4</sup> Both the Agreement and Customer Authorization (79-1151A) and Application (79-1151B) forms must have been submitted before PG&E will issue the Permission to Operation (PTO) letter, except that collection of customer-specific system post information that previously was collected as a condition of customer participation in the Residential PV CSI Program is voluntary. Information in the Agreement and Customer Authorization can be electronically signed and submitted by the Customer in an electronic format, subject to approval by PG&E. Information in the Application can be submitted by the Company or Customer in an electronic format, subject to approval by PG&E. (L)

(Continued)

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~~ELECTRIC SCHEDULE NEM~~  
~~NET ENERGY METERING SERVICE~~

Sheet 14

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

4. 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 J.
- 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 schedule NEM, NEMBIO or NEMFC, but interconnects under the non-NEM 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 tariffs NEMA, NEMFCA or NEMBIOA (accounts with the loads from eligible accounts aggregated on the main NEM, NEMFC or NEMBIO account pursuant as allowed under this Special Condition 4 of this NEM tariff) will be treated as a separate Constituent Generator Group. However at this time NEMA may not be combined with NEMFCA or NEMBIOA under this Special Condition.

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Sheet 15

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

4. MULTIPLE TARIFF FACILITIES (Cont'd):

(L)(T)

f. Except for Load Aggregation Arrangements, 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 readings.
- 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 metering tariff billing treatment type for each NEM-eligible Constituent Generator Group.
- 6) If interval metering is chosen per Special Condition 4(g)(2)(c) of this special condition, 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.
- 7) Generating Facilities including only multiple Renewable Electrical Generating Facilities are not Multiple Tariff Facilities and the customer-generator will be billed as provided in Special Condition 2 of this tariff.

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**ELECTRIC SCHEDULE NEM  
 NET ENERGY METERING SERVICE**

Sheet 16

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

4. MULTIPLE TARIFF FACILITIES (Cont'd):

g. Multiple Tariff Facility Configurations and Metering.

1) Except for Load Aggregation Arrangements, 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 4(f). Generation Rate Component charges are the charges for energy (kWh) used based on the generation rate component of the energy charge under the customer-generator's rate schedule(s). 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.

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 Schedule NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).

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(Continued)

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Sheet 17

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

4. MULTIPLE TARIFF FACILITIES (Cont'd): (L)(T)
- g. Multiple Tariff Facility Configurations and Metering. (Cont'd)
- 2) For both, NEM-Eligible—unless there is a Load Aggregation Constituent Generator Group, in which case it must be the only NEM-Eligible Constituent Generator Group—and non-NEM Eligible Constituent Generator Groups, the Customer-Generator must select one of the following options:
- i. 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 NEM-eligible 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 4(f) and 4(g) apply. (T)
  - ii. 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 4(f) and 4(g) apply. (T)
  - iii. 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 4(f) and 4(g) for interval metering apply. Energies (kWh) generated in an interval are aggregated over a billing period according to the OAS. (T)
- h. Multiple Tariff Facilities, served under DA or CCA Service, may only participate to the extent their ESP or CCA offers net metering for the specific constituent generator group(s).
- i. Multiple Tariff Facilities involving multiple Load Aggregation Constituent Generator Groups, except for those allowed under Section g. above, are not permitted at this time. (L)

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**ELECTRIC SCHEDULE  
 NET ENERGY METERING SERVICE**

Sheet 18

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

5. Net Surplus Electricity Compensation (NSC):

(L)(T)

Pursuant to P.U. Code Sections 2827 (h)(4)(A), this Special Condition was established to provide a NEM customer having Net Surplus Electricity , (defined as all electricity generated by an eligible customer measured in kilowatt-hours over a Relevant Period – as defined in Special Condition 2(e) of this tariff – that exceeds the amount of electricity consumed by that eligible customer), with Net Surplus Electricity Compensation (NSC) for the Net Surplus Electricity, while leaving other ratepayers unaffected. A NEM customer who has Net Surplus Electricity will be known as a Net Surplus Generator.

(a) NSC Applicability – All bundled Net Surplus Generators that satisfy the conditions in the Applicability Section of this tariff and take service under this rate schedule are eligible to receive NSC if they have a true-up on, or following, the effective date below. This includes Net Surplus Generators on sub-schedules NEMS, NEMEXP, and NEMEXPM. A NEMMT Net Surplus Generator is also eligible to receive NSC but only for the one or more generators at the same metered account eligible for billing treatment under Special Condition 2 (a through f) of this NEM schedule.

Net Surplus Generators who receive Direct Access (DA) Service from an ESP or who receive Community Choice Aggregation Service from a CCA are not eligible to receive NSC from PG&E but may contact their ESP or CCA Provider to see if they provide NSC.

If an eligible customer-generator elects Load Aggregation as described in Special Condition 7, the Generating Account shall be permanently ineligible to receive net surplus electricity compensation, and PG&E shall retain any kilowatt-hours and zero out any credits remaining on each account in the Load Aggregation Arrangement at the end of the Relevant Period. However, if an Aggregated Account that is not a Generating Account is separated from the Arrangement, and subsequently qualifies for NEM, it is also eligible for NSC.

(T)

The effective date for a Net Surplus Generator to begin to receive NSC will be no earlier than the end of their Relevant Period following January 1, 2011 unless (i) the Net Surplus Generator customer was a change-of-party Customer or became a new NEM customer in January 2010 and the meter read date for their twelfth billing month following enrollment in NEM falls in December of 2010; or (ii) a Net Surplus Generator's NEM meter was set to be read in January 2011 but due to PG&E's schedule of meter read dates, the read occurred on December 27, 2010 or later. Customers covered by subsections (i) or (ii) will be eligible to receive NSC for their Relevant Period ending in December 2010.

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Sheet 19

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

5. Net Surplus Electricity Compensation (NSC) (Cont'd):

(L)(T)

(b) The NSC Rate – The NSC Rate is defined as the simple rolling average of PG&E’s default load aggregation point (DLAP) price from 7 a.m. to 5 p.m., for a 12-month period. PG&E shall use the NSC Rate as the value of the electricity portion of its net surplus compensation rate.

PG&E will calculate the NSC Rate each month. It will be effective on the first day of that month and PG&E will use it in the NSC Calculation for any Net Surplus Generators with a Relevant Period completed in that month (True-Up Month).

The DLAP Cutoff Date will be defined as the twentieth (20th) day of the month prior to the True-Up Month.

PG&E will wait five (5) days after the DLAP Cutoff Date for the CAISO to have time to finalize the day-ahead PG&E DLAP prices. The NSC Rate will then be calculated as the simple average of the prices for all hours between 7 a.m. and 5 p.m. over a one (1) year period ending on the DLAP Cutoff Date.

(c) Pursuant to D. 11-06-016, PG&E includes a Renewable Attribute Adder (RAA) based on the California Energy Commission (CEC) implementation methodology.

Under the CEC’s Renewables Portfolio Standard (RPS) Eligibility Guidebook<sup>1</sup>, an ownership verification and tracking process is set forth for Renewable Energy Credits (RECs) created by Net Surplus Generators.

PG&E will pay a Renewable Attribute Adder (RAA) for Net Surplus Electricity if the Net Surplus Generator completes Form 79-1155 -- Schedules NEM, NEMV, NEMVMASH, Net Surplus Electricity (NSE) Renewable Energy Credits Compensation Form which requires that each true-up a Net Surplus Generator confirm it or its REC aggregator has:

- (1) certified ownership of Net Surplus Electricity Renewable Energy Credits associated with their Net Surplus Electricity;
- (2) obtained certification for the Renewable Portfolio Standards (RPS) eligibility of the Electrical Generation Facility from the CEC and provide evidence of this certification to PG&E; and
- (3) transferred the ownership of the WREGIS Certificates to PG&E.

The RAA will be calculated using the most recent Western Electricity Coordinating Council (WECC) average renewable premium, based on United States Department of Energy (DOE) published data as submitted via advice letter annually in compliance with Resolution E-4475 and Decision 11-12-018.

(d) Calculation of the NSC – NSC is calculated by multiplying any Net Surplus Electricity (kWh) by the NSC Rate in (b) and (c) above.

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<sup>1</sup> The CEC RPS Eligibility Guidebook is available at: <http://www.energy.ca.gov/renewables/documents/#rps>

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Sheet 20

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 CONDITIONS:  
 (Cont'd.)

5. Net Surplus Electricity Compensation (NSC) (Cont'd):

(L)(T)

(e) Options for receiving NSC – A NEM customer with NSC will automatically have their NSC applied to any amounts owed to PG&E and then may choose to:

(1) take no action and roll any remaining NSC amounts forward to offset subsequent PG&E charges; or

(2) request that PG&E issue a check if the remaining NSC amount is greater than one dollar (\$1). A customer can select this option by calling PG&E. If the customer is closing all their accounts with PG&E, PG&E will automatically send a check; or

(3) elect not to receive any NSC by completing and submitting Form 79-1130 (Customer Request Form not to Receive Net Surplus Compensation) to PG&E to confirm that they do not want to participate. In this case PG&E will zero out any NSC the NEM customer may be otherwise eligible to receive.

(f) QF Status – Customers receiving net surplus compensation must first demonstrate to PG&E that they are Qualifying Facilities in order to receive NSC. Since all NEM customer-generators currently meet the requirements for a qualifying facility exempt from certification filing at the Federal Energy Regulatory Commission (FERC), no further documentation is required at this time.

(g) Generator Size – Nothing in this Special Condition alters the existing NEM system sizing requirement. Specifically, in order to be eligible for NSC, a system must be intended primarily to offset part or all of the customer's own electrical requirements. Systems that are sized larger than the customer's electrical requirements are not eligible for NEM and therefore, are not eligible for NSC either.

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Sheet 21

SPECIAL  
 CONDITIONS:  
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6. Re-Inspection

(L)(T)

Pursuant to Public Utilities Code Section 2827(c)(2), any customer with an existing electrical generating facility and meter who enters into a new net energy metering contract (for example, Sample Form 79-978, Interconnection Agreement for Net Energy Metering of Solar and Wind Electric Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less) shall complete and submit a copy of form 79-1125 – NEM / NEMV / NEMVMASH Inspection Report to PG&E, unless the electrical generating facility and meter have been installed or inspected within the previous three years. The NEM Inspection Report shall be prepared by a California licensed contractor who is not the owner or operator of the facility and meter. A California licensed electrician shall perform the inspection of the electrical portion of the facility and meter and sign the NEM / NEMV / NEMVMASH Inspection Report. If an inspection is required, the customer shall submit the fully completed NEM / NEMV / NEMVMASH Inspection Report to PG&E within 90 days of the customer becoming the customer of record at this account, or else the customer agrees to disconnect their Generating Facility and inform PG&E it no longer will take service on schedule NEM, NEMV or NEMVMASH. By signing the interconnection agreement, the NEM / NEMV / NEMVMASH Inspection Report shall be incorporated into it.

7. Load Aggregation

(L)(T)

Load Aggregation is available to an eligible customer-generator that has load served by multiple meters ("Aggregated Accounts ") located on the property where the Renewable Electrical Generation Facility ("Generating Account ") is located and on property adjacent or contiguous to the property on which the Renewable Electrical Generation Facility is located, only if those properties are solely owned, leased, or rented by the eligible customer-generator, subject to the terms of this Special Condition and elsewhere in this tariff. All of the Aggregated Accounts, including a single Generating Account, that are billed together under this Special Condition are referred to as an Arrangement . Customer-generators are eligible to participate in Load Aggregation provided that all meters in a Load Aggregation Arrangement are located (i) on the property where the renewable electrical generation facility is located, or (ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator, as verified in Form 79-1153.

For example, assume there are five parcels (A, B, C, D, E, and F) that form a cluster of contiguous parcels and D and E are separated from A, B, C and F by a street, highway, or public thoroughfare. For the purposes of participating in Load Aggregation, all five parcels are considered contiguous, provided they are otherwise contiguous and all are solely owned, leased or rented by the customer-generator. Refer to Diagram 1 (for illustrative purposes only).

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Sheet 22

SPECIAL  
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7. Load Aggregation (Cont'd)

(L)(T)

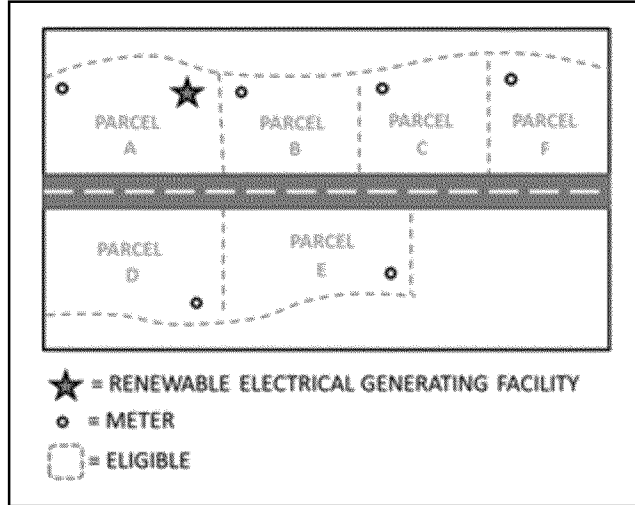


Diagram 1

Billing Service Charges -- Notwithstanding Public Utilities Code Section 2827 (g), an eligible customer-generator electing Load Aggregation shall remit service charges for the cost of providing billing services as follows. These charges shall include:

- i) One-Time Setup Charge of \$25.00 per Aggregated Account and for the Generating Account, as defined in this Special Condition, and cumulatively, shall be limited to no more than \$500 per Load Aggregation Arrangement.

Plus,

- ii) Monthly Charge of \$5 Per Aggregated Account and for the Generating Account as defined in this Special Condition.

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| 33906-E  | ELECTRIC SCHEDULE<br>NETENERGMETERINGSERVICE<br>Sheet 10 | 33472-E |
| 33907-E* | ELECTRIC SCHEDULE<br>NETENERGMETERINGSERVICE<br>Sheet 11 | 33473-E |
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| 33920-E                 | ELECTRIC SCHEDULE MV<br>VIRTUAL NET METERING FOR MULTI-<br>TENANT MULTI-METER<br>PROPERTY SERVED AT THE SAME SERVICE<br>DELIVERY POINT<br>Sheet 3   | 32069-E                            |
| 33921-E                 | ELECTRIC SCHEDULE MV<br>VIRTUAL NET METERING FOR MULTI-<br>TENANT MULTI-METER<br>PROPERTY SERVED AT THE SAME SERVICE<br>DELIVERY POINT<br>Sheet 7   | 31552-E                            |
| 33922-E                 | ELECTRIC SCHEDULE MV MASH<br>VIRTUAL NET ENERGY METERING FOR<br>MULTIFAMILY<br>AFFORDABLE HOUSING (MASH/NSHP) WITH<br>SOLAR GENERATOR(S)<br>Sheet 2 | 32808-E                            |
| 33923-E                 | ELECTRIC SCHEDULE MV MASH<br>VIRTUAL NET ENERGY METERING FOR<br>MULTIFAMILY<br>AFFORDABLE HOUSING (MASH/NSHP) WITH<br>SOLAR GENERATOR(S)<br>Sheet 4 | 31627-E                            |
| 33924-E                 | ELECTRIC SCHEDULE MV MASH<br>VIRTUAL NET ENERGY METERING FOR<br>MULTIFAMILY<br>AFFORDABLE HOUSING (MASH/NSHP) WITH<br>SOLAR GENERATOR(S)<br>Sheet 5 | 31628-E                            |
| 33925-E                 | ELECTRIC SCHEDULE MV MASH<br>VIRTUAL NET ENERGY METERING FOR<br>MULTIFAMILY<br>AFFORDABLE HOUSING (MASH/NSHP) WITH<br>SOLAR GENERATOR(S)<br>Sheet 6 | 31629-E                            |
| 33926-E                 | Electric Sample Form No. 79-1010<br>Interconnection Agreement for Net Energy<br>Metering of Fuel Cell Generating Facilities                         | 32449-E                            |

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| 33927-E                 | Electric Sample Form No. 79-1069<br>Generating Facility Interconnection Agreement<br>(Multiple Tariff)  | 32450-E                            |
| 33928-E                 | Electric Sample Form No. 79-1109<br>Virtual Net Energy Metering Application and<br>Interconnection Agreement for the<br>Building Owner of Multifamily Affordable Housing<br>with a Solar Generating Facility of 1 Megawatt or<br>Less<br>Sheet 1  | 32045-E*                           |
| 33929-E                 | Electric Sample Form 79-1124<br>Eligible Low Income Development Virtual Net<br>Energy Metering Application and<br>Interconnection Agreement for Multifamily<br>Affordable Housing with Solar Generation Totaling<br>1 Megawatt or Less<br>Sheet 1 | 32046-E*                           |
| 33930-E                 | ELECTRIC SAMPLE FORM 79-1131<br>NEM APPLICATION AND INTERCONNECTION<br>AGREEMENT FOR A SOLAR<br>(PV) OR WIND GENERATING FACILITY OF 1<br>MW OR LESS<br>Sheet 1  | 32048-E*                           |
| 33931-E                 | ELECTRIC SAMPLE FORM 79-1137<br>INTERCONNECTION AGREEMENT FOR NET<br>METERING FOR A<br>RENEWABLE ELECTRICAL GENERATION<br>FACILITY OF 1,000 KILOWATT OR LESS,<br>EXCEPT SOLAR OR WIND<br>Sheet 1  | 32049-E*                           |
| 33932-E                 | ELECTRIC SAMPLE FORM 79-1142<br>NEM INTERCONNECTION APPLICATION FOR<br>A RENEWABLE<br>ELECTRIC GENERATION FACILITY OF 1<br>MEGAWATT OR LESS<br>Sheet 1  | 32050-E*                           |

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