



Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 1

APPLICABILITY

Applicable to Bundled Service Customers, Direct Access (DA) 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 Fuel Cell Electrical Generating Facility, as defined herein below pursuant to Public Utilities (PU) Code Section 2827.10, with a generating capacity no greater than 5 MW, located on or adjacent to the customer’s Premises, intended to offset part or all of the customer’s electrical requirements (or aggregated load, see Special Condition 4), (2) is the recipient of local, state, or federal funds, or who self-finance projects designed to encourage the development of fuel cell electrical generating facilities, (3) uses technology that the California Public Utilities Commission (CPUC) has determined will achieve reductions in emissions of greenhouse gases (GHG) pursuant to the schedule of annual GHG emissions reduction standards established by the California Air Resources Board (CARB) pursuant to PU Code Section 2827.10(b)(1) and (2) (see Special Condition 9), (4) as applicable, complies with the emissions standards adopted by CARB pursuant to the distributed generation certification program requirements of Section 94203 of Title 17 of the California Code of Regulations, or any successor regulation (see Special Condition 9), and (5) have commenced operation of their Eligible Fuel Cell Electrical Generating Facility on or before December 31, 2023. (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.

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), with the exception of an interconnection inspection services fee as defined in Special Condition 7 or an annual documentation fee as defined in Special Condition 9, and (2) Standby Charges (Schedules S, TOU-8-S, or TOU-8-RTP-S). (T)

Customers utilizing a Multiple Tariff Generating Facility may be subject to Standby Charges, pursuant to the provisions of Schedules S, TOU-8-S, or TOU-8-RTP-S, as well as other applicable charges not included in their OAT (e.g., Schedule CGDL-CRS and Schedule DL-NBC).

Notwithstanding all applicable terms and conditions contained herein, to the extent that an Electric Service Provider (ESP) offers net energy metering (NEM) service to fuel cell customer-generators, SCE will provide applicable NEM services under this Schedule to an eligible DA customer-generator consistent with services provided to its eligible Bundled Service customer-generators. Each eligible DA customer-generator must look to its ESP for NEM services related to the electric generation charges and credits that result from receiving service under this Schedule. The ESP will also be responsible for the applicable generation-related bill credit structure associated with this service option and for providing the DA customer-generator with the applicable generation-related bill credit. As a condition of receiving service under this Schedule, the ESP must be responsible for timely providing the applicable generation-related bill charges or credits for each DA customer-generator to SCE. Consistent with services provided to Bundled Service customer-generators, an eligible DA customer-generator will continue to be responsible, as provided herein, for all SCE charges that are not subject to NEM under this Schedule.

(Continued)

(To be inserted by utility)
Advice 5197-E
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)
Date Submitted Jan 16, 2024
Effective Feb 15, 2024
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 2

(Continued)

APPLICABILITY (Continued)

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 fuel cell 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.

This Schedule is closed to new customer-generators whose Fuel Cell Electrical Generating Facilities did not commence operation as of December 31, 2023. (T)
(T)(D)

Subject to the provisions of Special Condition 9, an Eligible Fuel Cell Electrical Generating Facility that received permission to operate (PTO) after January 1, 2017, that fails its ongoing certification of compliance with the GHG emission standards adopted by CARB will be deemed ineligible for this Schedule and the associated customer-generator account(s) will be unenrolled from this Schedule and the corresponding interconnection agreement will be terminated. See Special Condition 9 for allowable grace periods. Once unenrolled, the non-compliant generating facility will not be permitted to re-enroll on this Schedule for the remainder of its useful life and should not operate unless and until the non-compliant generating facility obtains a new permission to operate under any other eligible Rule 21 agreement. (N)
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|
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|
|
(N)

TERRITORY

Within the entire territory served.

RATES

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

Only the generation rate component of the energy charge (kWh) of the customer's OAT shall be used in the calculation of credits when the customer is a net energy producer, on a monthly basis, for any TOU period. Only the generation rate component of the customer's OAT shall be used to calculate the charge for generation when the customer is a net energy consumer on a monthly basis, for any TOU period.

(L)

(Continued)

(To be inserted by utility)
Advice 5197-E-A
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)
Date Submitted May 9, 2024
Effective Feb 15, 2024
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 3

(Continued)

RATES (Continued)

If the customer is being served under CCA Service or under DA Service, the applicable monthly bill charges or credits related to the generation rate component will be specified by their CCA or ESP, as applicable, in accordance with the eligible customer's OAT and SCE's CCA and DA 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's OAT for all energy supplied by SCE prior to the netting of energy charges and credits. (L)

SPECIAL CONDITIONS

1. Required Application and Contract: A Net Energy Metering (NEM) Generating Facility Interconnection Application (Form 14-957) and a Fuel Cell Net Energy Metering and Interconnection Agreement (Form 14-755) are required for service under this Schedule. In lieu of Form 14-755, Customers utilizing a Multiple Tariff Generating Facility must use either Form 14-773 or Form 14-972 as their Interconnection Agreement.

2. Metering Requirements for all Customers Except Those Utilizing a Multiple Tariff Generating Facility:

- a. Fuel Cell 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. When SCE provides metering and billing for an ESP's FC-NEM customer-generator, the ESP will be responsible for the applicable charges for such services, as set forth in Schedule ESP-DSF.

3. Grandfathered Fuel Cell Electrical Generating Facilities:

A customer with an Eligible Fuel Cell Electrical Generating Facility that has commenced operation on or before December 31, 2023, 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 Fuel Cell Electrical Generating Facility except as noted in Special Condition 9. (T)

(Continued)

(To be inserted by utility)

Advice 5197-E
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

Date Submitted Jan 16, 2024
Effective Feb 15, 2024
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 4

(Continued)

SPECIAL CONDITIONS (Continued)

4. Load Aggregation:

Customers served under this Schedule who have additional TOU-metered service accounts located on the property where the Eligible Fuel Cell Electrical Generating Facility is located and on all property adjacent or contiguous to the property on which the Eligible Fuel Cell Electrical Generating Facility is located, provided those properties are solely owned, leased, or rented by the customer-generator, may choose to have the electrical load of such meters aggregated for the purposes of determining if the eligible fuel cell customer-generator is a net consumer or net producer of electricity at the end of the customer-generator's Relevant Period. The customer must provide a list of accounts eligible for aggregation on Appendix E of Form 14-755, and can modify the list of accounts during the Relevant Period, provided a minimum of 60-days' notice is given prior to the change taking effect and such change remains in effect for 12 months. For service accounts eligible for this Special Condition, all charges will be calculated monthly and will be due and payable monthly, in accordance with SCE's normal monthly billing cycle. At the end of the customer-generator's Relevant Period, Special Condition 5.b will apply. To be eligible for this Special Condition, the customer-generator account and all aggregated accounts must be (1) Bundled Service accounts; (2) DA accounts served by the same ESP; or (3) CCA Service accounts served by the same CCA. Accounts can only be aggregated to one customer-generator. Customers choosing to aggregate accounts will be responsible for the interconnection costs associated with sizing their systems to offset load from multiple meters, including but not limited to re-wiring, trenching, conduit, and other facility costs that are needed, provided these costs result from facilities that will serve only the customer-generator.

5. Billing:

a. With each monthly bill, SCE shall provide the customer with information on both the energy supplied by SCE, and 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 DA Customers billed under the Consolidated SCE Billing option, the ESP will be responsible for providing SCE the generation charges or credits applicable to those DA Customers. For DA Customers billed under the Consolidated ESP or Separate SCE/ESP Billing options, the ESP will be responsible for calculating and applying the generation charges or credits applicable to those DA Customers. 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 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.

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 generation component of the energy charges with generation energy credits.

(Continued)

(To be inserted by utility)

Advice 2816-E-A
Decision _____

Issued by

Akbar Jazayeri
Vice President

(To be inserted by Cal. PUC)

Date Filed Feb 1, 2013
Effective Jan 1, 2013
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 5

(Continued)

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 perform an annual true-up by subtracting all monthly valued accrued generation energy credits from all accrued generation energy charges. Where a customer's value of generation energy credits exceeds its generation 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 energy charges in other TOU periods.
 - 2. If the true-up calculation pursuant to 5.b.1 above results in monies owed to SCE for the generation energy charges, such generation energy charges shall be due and payable in accordance with SCE's normal billing cycle.
 - 3. If the calculation pursuant to 5.b.1 above results in excess generation energy credits, and provided the customer has chosen to aggregate accounts per Special Condition 4, any remaining generation credits will be applied as a credit to the customer-generator's account, not to exceed the sum of the generation charges of the aggregated accounts incurred over the same 12-month period as the customer-generator's Relevant Period.
 - 4. After the execution of 5.b.1 and 5.b.3 above, any remaining generation credits will be zeroed out without compensation to the customer and a new Relevant Period shall commence.
 - 5. Additionally, Special Condition 8 may apply for Residential Customers. (N)
 - 6. For DA Customers, the ESP must 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 ESP's generation services will be based on the information provided by the ESP to SCE. Any net balance related to generation charges that are collected from an eligible DA customer-generator will be paid annually by SCE to the ESP as set forth in Rule 22, Section L, which describes the payment and collection terms between SCE and a DA Customer. The charges or credits resulting from an ESP's generation services will not be co-mingled with charges or credits resulting from services provided by SCE. (T)
 - 7. 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. (T)

(Continued)

(To be inserted by utility)

Advice 3008-E
Decision 12-12-033
5C10 13-12-002; 13-12-003;
13-12-041

Issued by

Megan Scott-Kakures
Vice President

(To be inserted by Cal. PUC)

Date Filed Feb 28, 2014
Effective Apr 1, 2014
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 6

(Continued)

SPECIAL CONDITIONS (Continued)

5. Billing: (Continued)

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 DA Service to Bundled Service or from Bundled Service to DA Service during the Relevant Period will be deemed as terminating service under this Schedule before the end of the Relevant Period, and SCE will 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. Upon switching, the customer will begin a new Relevant Period. Except for customers who opted out of CCA Service during the CCA's Follow-up Notification Period in accordance with Rule 23 Section I, an eligible customer-generator switching from CCA Service to Bundled Service or from Bundled Service to CCA Service during the Relevant Period will be deemed as terminating service under this Schedule prior to the end of the Relevant Period, and SCE will 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. Upon switching, the customer will begin a new Relevant Period.

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 Special Condition 6 shall prevail.

a. A customer utilizing a Multiple Tariff Generating Facility consisting of all NEM Eligible Generators, where at least one Generator 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.f), all energy exported to SCE's system from any group of NEM Eligible Generators shall receive only the generation component of the energy credits of 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. A customer with a Multiple Tariff Generating Facility that includes a Renewable Electrical Generating Facility served on Schedule NEM-ST shall be responsible for all nonbypassable charges as specified therein. (T)

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 J. 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 and group 2 would be allocated 600 kWh, for NEM crediting purposes.

(Continued)

(To be inserted by utility)

Advice 4666-E
Decision _____

Issued by

Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

Date Submitted Dec 16, 2021
Effective Dec 16, 2021
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 7

(Continued)

SPECIAL CONDITIONS (Continued)

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

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 G.1.i, Screen I (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 generation energy credits at the generation rate component only. Otherwise, unallocated NEM-eligible excess energy exported to SCE's grid will be subject to Special Condition 6.a.1 above.
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 energy credits will only be applicable on the groups of NEM Eligible Generators that do have NGOMs.
3. The value of energy credit will be applied consistent with the appropriate NEM tariff as follows, including the requirement that Customers with a Multiple Tariff Generating Facility that includes a Renewable Electrical Generating Facility served on Schedule NEM-ST shall be responsible for all nonbypassable charges as specified therein:

I.	First, apply BG-NEM and/or FC-NEM generation rate component credits (if any) to generation rate component charges on any aggregated account(s) served by the Generating Facility.	(N) (N)
II.	Second, apply any remaining BG-NEM and/or FC-NEM credits from (I) above to the remainder of generation rate component charges on the account served by the Generating Facility.	(T)
III.	Third, apply NEM-ST energy (generation and delivery service rate component) credits to any remaining energy charges of the account that is served by the Renewable Electrical Generating Facility.	(N) (N)
IV.	Fourth, apply NEM energy (generation and delivery service rate component) credits to any remaining energy charges of the account that is served by the Renewable Electrical Generating Facility.	(T) (T)
4. For purposes of tariff administration, other metering configurations may be allowed at SCE's discretion.

(Continued)

(To be inserted by utility)

Advice 3371-E
Decision 16-01-044

Issued by

R.O. Nichols
Senior Vice President

(To be inserted by Cal. PUC)

Date Filed Feb 29, 2016
Effective Jul 1, 2017
Resolution E-4792

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 8

(Continued)

SPECIAL CONDITIONS (Continued)

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

- a. Eligible Fuel Cell Electrical Generating Facility: A generating facility that includes the following:
 - 1. Integrated power plant systems containing a stack, tubular array, or other functionally similar configuration used to electrochemically convert fuel to electric energy.
 - 2. An inverter and fuel processing system where necessary.
 - 3. Other plant equipment, including heat recovery equipment, necessary to support the power plant's operation or its energy conversion.

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.

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. 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 and on every subsequent anniversary thereof. If an eligible customer-generator terminates service, or experiences a change from Bundled Service to DA or from DA to Bundled Service before the end of the 12-month period, the Relevant Period will consist of that period from the anniversary date until the effective date of the termination or change in service. If an eligible customer-generator terminates service, or experiences a change from Bundled Service to CCA Service or from CCA Service to Bundled Service prior to the end of the 12-month period, the Relevant Period will consist of that period from the anniversary date until the effective date of the termination or change in service.

(D)
(T)

Customers may elect to change the start date of their Relevant Period on a one-time prospective basis by completing and returning Form 14-936, NEM One-Time Relevant Period Change Request Form, to SCE. SCE must receive this form at least 60 days prior to the requested start date of the new Relevant Period. When the start date change is effectuated it will cause a shortened existing Relevant Period and the new 12-month Relevant Period will begin. In no case will a Relevant Period extend beyond 12 months.

(Continued)

(To be inserted by utility)
Advice 3296-E
Decision _____

Issued by
R.O. Nichols
Senior Vice President

(To be inserted by Cal. PUC)
Date Filed Oct 19, 2015
Effective Nov 18, 2015
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 9

(Continued)

SPECIAL CONDITIONS (Continued)

7. Definitions: (Continued)

- e. 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, Schedule NEM-ST and/or Schedule BG-NEM, or consisting of one or more NEM Eligible Generators served under this Schedule and one or more Non-NEM Eligible Generators.
- f. NEM Eligible Generator: A Renewable Electrical Generating Facility (defined in Schedule NEM or Schedule NEM-ST), a facility served under Schedule FC-NEM, or a facility served under Schedule BG-NEM.
- g. Non-NEM Eligible Generator: An electrical generator that does not meet the definition of Special Condition 7.f above. (T)
- h. Group of NEM Eligible Generators: Generators meeting the definition of Special Condition 7.f above qualifying under the same NEM tariff provisions. Thus, a Renewable Electrical Generating Facility served under Schedule NEM would form one group, a Renewable Electrical Generating Facility served under Schedule NEM-ST would form a second group, biogas and fuel cell generators without aggregated accounts would form a third group, and biogas and fuel cell generators with aggregated accounts would form a fourth group. (T)
- i. Interconnection Inspection Services Fee: A fee SCE may charge for verifying the protective settings and functionality associated with the Eligible Fuel Cell Electrical Generating Facility's interconnection to SCE's electrical system, as follows:
 - 1. Fuel Cell Electrical Generating Facility with no aggregated accounts = \$225.00 flat fee
 - 2. Fuel Cell Electrical Generating Facility with aggregated accounts = \$375.00 flat fee
 - 3. Fuel Cell Electrical Generating Facility that includes non-certified equipment = \$150.00/hour

Such testing may include visual inspections of the interconnection equipment and protective settings to confirm compliance with the interconnection requirements. These fees will be charged each time SCE performs inspection services and will be due and payable according to SCE's normal billing cycle.

(Continued)

(To be inserted by utility)
Advice 4666-E
Decision _____

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)
Date Submitted Dec 16, 2021
Effective Dec 16, 2021
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 10

(Continued)

SPECIAL CONDITIONS (Continued)

8. California Climate Credit Cash-Out Provision for Residential Customers: Customers receiving service on a Residential rate schedule receive a semi-annual California Climate Credit from the State of California. In the event that a portion or all of the dollar value of the California Climate Credit cannot be consumed by the end of the customer's Relevant Period, any remaining California Climate Credit balance will be sent to the customer via a separate check after the final billing statement for the current Relevant Period is issued.
9. Greenhouse Gas Emissions Reduction Standards and Requirements: (T)
- Pursuant to PU Code Sections 2827.10(b)(1) and (2), CARB shall establish a schedule of annual GHG emissions reduction standards and shall update the schedule every three years through 2047. The current standards can be found at: (T)
- Stationary Fuel Cell Net Energy Metering: Emission Standards | California Air Resources Board: <https://ww2.arb.ca.gov/our-work/programs/fuel-cell-nem/emission-standards> (N)
- All Eligible Fuel Cell Electrical Generating Facilities are required to comply with these standards and all updates on an ongoing basis once these standards are established by CARB, and approved by the CPUC, as applicable. Demonstration of compliance is administered by SCE pursuant to the Modified Staff Proposal in Decision (D.)23-11-068, Appendix B.ⁱ
- All SGIP requirements must be followed, including that system owners must install and maintain metering and monitoring equipment at their own cost, all AC electric meters must be listed on the California Energy Commission's list of Eligible System Performance and Revenue Grade Meters.
- SCE reserves the right to conduct field inspections to verify compliance with these Standards. (N)
- a. Customers who submitted all documentation necessary to receive service on this Schedule and obtained PTO prior to January 1, 2017, are subject to the GHG emissions reduction standards in place at that time. (D)
- b. Customers who submitted all documentation necessary to receive service on this Schedule and obtained PTO on or after January 1, 2017, must comply with the emission standards certification requirements set forth in this Special Condition 9, sections (c) through (f), as approved by the CPUC in D.23-11-068. (N)
(T)

ⁱ [D.23-11-068](#)

(Continued)

(To be inserted by utility)

Advice 5197-E-B
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

Date Submitted Jun 5, 2024
Effective Feb 15, 2024
Resolution _____

Schedule FC-NEM
FUEL CELL NET ENERGY METERING

Sheet 11

(Continued)

SPECIAL CONDITIONS (Continued)

9. Greenhouse Gas Emissions Reduction Standards and Requirements: (Continued) (T)

c. Non-Refundable Annual Documentation Fee: (N)

A non-refundable annual documentation fee of \$4,100 must be submitted with the initial certification by May 21, 2024.

To continue to qualify for this Schedule, subsequent non-refundable annual documentation fee of \$3,100 will be due annually beginning in January 2025 and continuing each year that the Fuel Cell Electrical Generating Facility takes service on this Schedule. This fee may be adjusted through an advice letter approved by the CPUC.

d. Initial Certification:

Customer-generators who received PTO on or after January 1, 2017, and were enrolled in this Schedule, must demonstrate compliance with the GHG emission standards set by CARB for 2024. Demonstration of compliance must be done not later than May 21, 2024.

Documentation:

1. Customer-generators must provide the Performance test code using ASME PTC 50-2002 or,
 - a. If the Fuel Cell Electrical Generating Facility utilizes waste heat whose emission rate cannot feasibly be calculated using only test code ASME PTC 50-2002 then the customer-generation may submit the Equipment Specification Sheets for the Fuel Cell Electrical Generating Facilit(ies) to determine the first-year emission rate;
2. Documentation of the Fuel Cell Electrical Generating Facilit(ies) projected annual degradation rate;
3. Confirmation of the installation of an eligible AC electric meter on the fuel cell generator;ⁱⁱ
 - a. Additional information on the metered interval, etc. may be requested at SCE's discretion.
4. The customer-generator must maintain a contract with a performance data provider for the duration the customer-generator takes service on this Schedule.ⁱⁱⁱ

(N)

ⁱⁱ <https://solarequipment.energy.ca.gov/Home/MeterList>

ⁱⁱⁱ <https://www.selfgenca.com/documents/pdp/approved>

(Continued)

(To be inserted by utility)

Advice 5197-E-B
 Decision 23-11-068

Issued by

Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

Date Submitted Jun 5, 2024
 Effective Feb 15, 2024
 Resolution _____



Schedule FC-NEM
FUEL CELL NET ENERGY METERING

(Continued)

SPECIAL CONDITIONS (Continued)

9. Greenhouse Gas Emissions Reduction Standards and Requirements: (Continued) (T)

e. Annual Certification: (N)

Following the Initial Certification, Customer-generators must continue to demonstrate compliance with the applicable year's GHG emission standards set by CARB.^{iv}

1. Data Requirements:

The performance data provider is required to record monthly performance data from the installed metering and monitoring equipment. Data shall be submitted to SCE no later than 60 days before the anniversary of the Fuel Cell customer-generator's permission to operate (PTO) date. For example, if the customers PTO date is in the month of July, the data must be submitted in May and shall include the monthly data requirements of April of the current year through May of the previous year.

2. Documentation Requirements:

Current Minimum Operating Efficiency Worksheet as found in the Self-Generation Incentive Program for Commercial or Residential projects, as applicable.^v

3. Optional Compliance Pathways:

For fuel cell generators that utilize additional GHG reduction methodologies, there are Optional Compliance Pathways to adjust the generator emissions to achieve the current year standards. A customer-generator can use multiple pathways simultaneously to calculate their fuel cell system's effective GHG emission rate for the purpose of compliance with the NEMFC GHG emission standards.

A customer-generator may notify SCE if desiring to perform Carbon Capture Use and Storage (CCUS) in compliance with CARB's CCUS protocol.

(N)

^{iv} <https://ww2.arb.ca.gov/our-work/programs/fuel-cell-nem/emission-standards>

^v <https://www.selfgenca.com/home/resources/#handbook>

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(To be inserted by utility)

Advice 5197-E-A
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

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Effective Feb 15, 2024
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FUEL CELL NET ENERGY METERING

Sheet 13

(Continued)

SPECIAL CONDITIONS (Continued)

9. Greenhouse Gas Emissions Reduction Standards and Requirements: (Continued) (T)

e. Annual Certification (Continued) (N)

3. Optional Compliance Pathways: (Continued)

a. Waste Heat Utilization:

i. Should be documented within the Minimum Operating Efficiency Worksheet;

a. The GHG savings from waste heat recovery are calculated by dividing the annual waste heat recovered in MMBtu by 80 percent, which represents nominal boiler efficiency, and then multiplying by the 53.07 kg CO₂e/MMBtu emission factor for the conversion of natural gas to CO₂. The net GHG output of the generator is calculated by subtracting the GHG savings due to waste heat recovery from the gross GHG output. The GHG emission rate for the generator is found by dividing the net annual GHG emission by the annual electrical output of the generator in MWh.

ii. Attestation or other documentation to verify the waste heat recovery may be requested at SCE's discretion.

iii. Additionally, Fuel Cell Generating Facilities that utilize waste heat (also known as combined heat and power systems) must also install metering and monitoring equipment that complies with SGIP handbook requirements and measures net electrical output from the system, fuel input metering into the system, and for combined heat and power (CHP) technologies, and useful thermal energy delivered to the site from the CHP system. (N)

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(To be inserted by utility)

Advice 5197-E-A
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Issued by
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Vice President

(To be inserted by Cal. PUC)

Date Submitted May 9, 2024
Effective Feb 15, 2024
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Sheet 14

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SPECIAL CONDITIONS (Continued)

- 9. Greenhouse Gas Emissions Reduction Standards and Requirements: (Continued) (T)
 - e. Annual Certification: (Continued) (N)
 - 3. Optional Compliance Pathways: (Continued)
 - b. Renewable Fuel Blending: (Continued)
 - i. A customer-generator or performance data provider shall calculate the carbon intensity of renewable fuel utilized using the simplified carbon intensity calculators of the current California Greenhouse Gases, Regulated Emissions and Energy Use in Transportation (GREET) model for the renewable fuel type used for the Fuel Cell Electrical Generating Facility.^{vi}
 - ii. For onsite renewable fuel, which includes fuel delivered to the generating facility through a dedicated pipeline, all customer-generators must install a fuel metering system that reports use of both renewable and non-renewable fuel. The customer-generator must provide the utility with the make, model, specifications, and serial numbers of installed revenue grade gas meters. The customer-generator must contract with a performance data provider, and the performance data provider must submit both renewable and non-renewable fuel data to the utility on a monthly basis. NEMFC systems using onsite renewable fuels must comply with any applicable requirements of Public Utilities (Pub. Util.) Code 651 (b)(3)(B) and the SGIP for directed renewable fuel.
 - iii. For directed renewable fuel:

The renewable fuel must be injected into a common carrier pipeline system in alignment with the requirements in Pub. Util. Code 651 (b)(3)(B) and the SGIP. The customer-generator or performance data provider must provide the utility with monthly data on the amount of directed renewable fuel consumed on a monthly basis. The customer-generator or performance data provider must provide the source, path, and destination of the renewable fuel.

^{vi} <https://ww2.arb.ca.gov/resources/documents/lcfs-life-cycle-analysis-models-and-documentation>

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(To be inserted by utility)

Advice 5197-E-A
Decision 23-11-068

Issued by

Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

Date Submitted May 9, 2024
Effective Feb 15, 2024
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SPECIAL CONDITIONS (Continued)

- 9. Greenhouse Gas Emissions Reduction Standards and Requirements: (Continued) (T)
 - e. Annual Certification: (Continued) (N)
 - 3. Optional Compliance Pathways: (Continued)
 - b. Renewable Fuel Blending: (Continued)
 - iv. Documentation:
 - a. GREET Model calculations for the renewable fuel type for the reporting period.
 - b. Documentation from the source showing the amount of directed biogas moved into the pipeline. The documentation must identify any non-renewable gas added at the source.
 - c. Documentation from the gas transmission system showing:
 - i. Receipt of directed biogas from source, storage, or other pipelines;
 - ii. Pipeline losses or fees paid in gas not carried over;
 - iii. Positive or negative imbalances carried over; and
 - iv. Delivery of directed biogas to either another pipeline, storage facility, or California utility receipt point.
 - d. For directed renewable fuel, the customer-generator or performance provider must provide documentation of the renewable fuel seller's contractual obligation to provide all environmental attributes to the FC-NEM customer-generator except if using renewable fuel purchased from a utility as allowed.
 - i. The customer-generator must not sell, trade, or transfer any environmental attributes of the contracted fuel sources. (N)

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(To be inserted by utility)

Advice 5197-E-A
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

Date Submitted May 9, 2024
Effective Feb 15, 2024
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(Continued)

SPECIAL CONDITIONS (Continued)

- 9. Greenhouse Gas Emissions Reduction Standards and Requirements: (Continued) (T)
 - e. Annual Certification: (Continued) (N)
 - 3. Optional Compliance Pathways: (Continued)
 - b. Renewable Fuel Blending: (Continued)
 - iv. Documentation: (Continued)
 - e. Gas Fuel Consumption: The customer-generator or performance data provider must provide gas fuel consumption documentation from the gas utility matching the directed renewable fuel receipts reporting the metered total energy input to the generator. The customer-generator or performance data provider must report utility gas fuel consumption receipts on a monthly basis. It is the responsibility of the Customer-generator or performance data provider to supply the renewable fuel use documentation and to ensure that the renewable fuel is reported to the utility on a monthly basis. (N)

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(To be inserted by utility)
Advice 5197-E-B
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)
Date Submitted Jun 5, 2024
Effective Feb 15, 2024
Resolution _____

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Sheet 17

(Continued)

SPECIAL CONDITIONS (Continued)

9. Greenhouse Gas Emissions Reduction Standards and Requirements: (Continued) (T)

f. Failure to Maintain GHG Emission Standards Requirements: (N)

Pursuant to D.23-11-068, Staff Proposal in Appendix B, if a Fuel Cell Electrical Generating Facility fails to meet the established CARB Emission Standards for Fuel Cell Net Energy Metering for the current year, the customer-generator shall have 6 months to bring the Fuel Cell Electrical Generating Facility into compliance. If the customer-generator fails to bring the Fuel Cell Electrical Generating Facility into compliance or fail to provide adequate documentation to SCE to verify compliance within six months of SCE's initial notice of non-compliance, the Fuel Cell Electrical Generating Facility, will be deemed ineligible for this Schedule and the associated customer-generator account(s) will be unenrolled from this Schedule and the corresponding interconnection agreement will be terminated. Once unenrolled, the non-compliant generating facility will not be permitted to re-enroll on this Schedule for the remainder of its useful life and should not operate unless and until the non-compliant generating facility obtains a new permission to operate under any other eligible Rule 21 agreement.

For directed renewable fuel sources SCE will conduct random no-warning spot checks, as directed in D.23-11-068, Staff Proposal in Appendix B. In the case of non-compliance, SCE will issue a notice of non-compliance and the customer generator shall have 30-calendar days to bring the Fuel Cell Electrical Generating Facility into compliance. If compliance is not restored within 30-calendar days, the Fuel Cell Electrical Generating Facility will no longer be eligible for the directed renewable fuel Optional Compliance Pathway and the Fuel Cell Electrical Generating Facility GHG emissions will be recalculated without the purported renewable fuel results. If the recalculation yields result that do not meet the CARB emission standards for the current year, the Fuel Cell Electrical Generating Facility will be deemed ineligible for this Schedule and the associated customer-generator account(s) will be unenrolled from this Schedule and the corresponding interconnection agreement will be terminated. Once unenrolled, the non-compliant generating facility will not be permitted to re-enroll on this Schedule for the remainder of its useful life and should not operate unless and until the non-compliant generating facility obtains a new permission to operate under any other eligible Rule 21 agreement.

(To be inserted by utility)

Advice 5197-E-B
Decision 23-11-068

Issued by
Michael Backstrom
Vice President

(To be inserted by Cal. PUC)

Date Submitted Jun 5, 2024
Effective Feb 15, 2024
Resolution _____