



Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering

Sheet 1

APPLICABILITY

Applicable to Qualified Customers whose Service Account(s) are located at a Residential Complex on the same Premises upon which one or more Eligible Generators have been installed and for which the Owner or Operator of the Residential Complex contracts with SCE to have all eligible energy produced from the Eligible Generators supplied to SCE for the sole purpose of providing Allocated Credits to the Residential Complex's common area and/or tenant Service Accounts to offset their energy usage.

In addition to receiving Allocated Credits (kWh) for the energy produced by the Eligible Generator, the Owner or Operator of the Residential Complex will be eligible for upfront incentives. See the Special Conditions section of this Schedule for definitions and further requirements.

Service Accounts not fully utilizing energy allocated to them under this schedule may be eligible for additional compensation at the conclusion of their Relevant Period as described in Special Conditions 1.h and 9.f.

This Schedule is available to a Residential Complex with one or more Eligible Generators on a first-come, first-served basis until the first of the following events occurs, at which time this Schedule will be closed to new Customers: (a) the total combined rated generating capacity of Renewable Electrical Generating Facilities participating under Schedule NEM and Eligible Generators participating under Schedule NEM-V and Schedule MASH-VNM reaches five (5) percent of SCE's aggregate customer peak demand, as defined in Special Condition 1 (hereinafter referred to as the NEM trigger level, which may never be less than 2,240 megawatts in accordance with Public Utilities Code Section 2827(c)(4)(B)(ii)); or (b) July 1, 2017. Qualified Customers who are receiving service on this Schedule, or who have submitted all documentation necessary for receiving service on this Schedule, prior to SCE reaching its NEM trigger level or July 1, 2017, whichever is earlier, are subject to the transition provisions as provided in Special Condition 15 below. (T)

This Schedule is applicable to Direct Access (DA) and Community Choice Aggregation (CCA) Service Customers provided the Qualified Customer's Electric Service Provider (ESP) or Community Choice Aggregator offers a virtual net energy metering tariff consistent with the provisions of this Schedule. Qualified DA and CCA Customers should look to their ESP or Community Choice Aggregator for virtual net metering services related to the generation-related energy charges and credits that may result from receiving such service. DA and CCA Service Qualified Customers are not eligible to receive Net Surplus Compensation (NSC) from SCE.

TERRITORY

Within the entire territory served.

RATES

All terms and conditions of the Qualified Customer's Otherwise Applicable Tariff (OAT) will apply except that the Allocated Credits and NSC for which this Schedule provides will be applied to the monthly bills for all eligible Service Accounts designated by the Owner or Operator.

An Allocated Credit as described in Special Condition 9.b. is determined by multiplying the kilowatt hours (kWh) that the designated Eligible Generators delivers to the grid by the allocation percentages that the Owner or Operator designates in the Allocation Request Form for the Common Area and Tenant Service Accounts located at the Residential Complex. The Allocated Credit is then used to reduce the energy billed to the Qualified Customer, as described in Special Condition 9.

NSC is equal to the Net Surplus Compensation Rate (NSCR) multiplied by Net Allocated Energy. Pursuant to PU Code Section 2827 (h)(4)(A), NSC is designed to compensate participating Service Accounts for energy allocated to them in excess of their total consumption over their Relevant Period. The NSCR is based on the default load aggregation point (DLAP) price. See Special Condition 9.g for calculation of NSCR.

Renewable Energy Credits (RECs) are equal to Renewable Attribute Adder (RAA) multiplied by Net Surplus Energy. See Special Condition 9.h.

(Continued)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 2

SPECIAL CONDITIONS

1. Definitions: Except as otherwise defined in Rule 1, terms utilized in the context of this Schedule are defined below:
 - a. Common Area Service Accounts: Accounts for which electrical service is provided to the common areas of the Residential Complex which may include electrical service for recreation facilities, parking and walkway lighting, landscaping, elevator and laundry rooms.
 - b. Tenant Service Accounts: Accounts for which electrical service is provided to the tenants of the Residential Complex.
 - c. Qualified Customer: A Qualified Customer is either: (i), the Owner or Operator of a Residential Complex which is qualified to participate under the Multifamily Affordable Solar Housing (MASH) program or the New Solar Homes Partnership (NSHP) who may or may not have received MASH incentive funding; (ii) the Owner or Operator of a Residential Complex whose name is on the Service Account(s) of the common areas of the Residential Complex; or (iii) a tenant of the Residential Complex with a separate Service Account.
 - d. Owner: An Owner is the Qualified Customer who has the legal right or rightful claim to ownership of the Residential Complex and who has one or more Eligible Generators located on the Premises.
 - e. Operator: An Operator is a Qualified Customer who operates a business by leasing or renting the Residential Complex from an Owner and who has one or more Eligible Generators located on the Premises.
 - f. Residential Complex: A Residential Complex is defined as all of the real property and apparatus employed in a single low income housing enterprise on contiguous parcels of land, which may be divided by a dedicated street highway or public thoroughfare or railway, so long as they are otherwise contiguous and part of the same single low income housing enterprise, they are all under the same ownership. The Residential Complex must satisfy one of the following two definitions.
 - (i) Multifamily Affordable Solar Housing: Residential housing that satisfies the criteria for low-income residential housing as provided in Public Utilities (PU) Code Section 2852(a)(3). (T)
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(T)
 - (ii) New Solar Homes Partnership (NSHP): As defined in Public Resources Code Sections 25401.6 and 25744, residential housing that qualifies as affordable housing projects in communities with a plurality of minority or low-income populations and that utilizes eligible distributed emerging technologies including, but not limited to, projects undertaken pursuant to Section 50052.5, 50053, or 50199.4 of the Health and Safety Code. (L)
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(L)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 3

SPECIAL CONDITIONS (Continued)

1. Definitions (Continued)

g. Eligible Generator: A solar electrical generating facility with a capacity of not more than one megawatt that is: (i) located on the Owner or Operator's Residential Complex Premises; (ii) interconnected and operates in parallel with the electric grid, and (iii) is intended primarily to offset part or all of the Owner or Operator's own electrical requirements and/or requirements of the tenants of the Residential Complex.

h. Net Allocated Energy: Electricity allocated to a Common Area Service Account or Tenant Service Account in excess of the Account's total metered usage over its Relevant Period.¹

(N)

i. Aggregate Customer Peak Demand: Aggregate Customer Peak Demand is defined as the highest sum of all customers' non-coincident peak demands that occur in any calendar year (i.e., the aggregation, or sum, of each individual customer's peak demand in any calendar year) and is the denominator used in the formula to calculate progress toward reaching the NEM program cap. For this purpose, SCE utilizes load research studies based on a four-year moving average (e.g., 2012 calculations are based on 2007-2010 annual load research data, and 2013 calculations are based on 2008-2011 annual load research data) using 15-minute interval data. Aggregate Customer Peak Demand, when used for determining the NEM program cap, is updated annually but may not decrease below the most recent level determined.

j. NEM-Paired Storage System: An Eligible Generator that includes solar PV and an Integrated or Directly Connected Energy Storage Device(s) behind the same SCE revenue meter and/or Service Account. Integrated or Directly Connected Energy Storage Devices are considered an addition or enhancement to the solar PV and not a separate generating facility for the purposes of applying the cost exemptions specified in Special Condition 15 below when interconnecting at the same time as the solar PV.

(N)

An energy storage device shall be considered an addition or enhancement to the solar PV if the energy storage device is either:

i. Integrated into the Eligible Generator, such that the energy storage device is capable of storing only energy produced by the solar PV, either as an intermediary form of energy during the generation cycle or after electricity has been generated (Integrated Energy Storage Device); or,

ii. Directly connected to the Eligible Generator, such that electricity is delivered from the solar PV to the energy storage device behind the meter used for RPS purposes and any electricity from a source other than the solar PV is included as an energy input to the Eligible Generator; the energy storage device must be operated as part of the Eligible Generator represented in the application and not in conjunction with any other facility, renewable or otherwise (Directly Connected Energy Storage Device). As such, a Directly Connected Energy Storage Device is not required to be charged exclusively from the solar PV and may also be charged from the grid.

(N)

¹ kWh subject to forfeit under the NEM-Paired Storage System estimation methodology provisions of Special Condition 15 below are not used in the determination of Net Allocated Energy.

(N)
(N)

(Continued)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 4

SPECIAL CONDITIONS (Continued)

1. Definitions (Continued)

- k. Large NEM-Paired Storage System: A NEM-Paired Storage System where the Integrated or Directly Connected Energy Storage Device(s) is sized larger than 10 kW (AC) (i.e., maximum aggregate discharge capacity) and that meets the applicable sizing and metering requirements included in Special Condition 15 below.
 - l. Small NEM-Paired Storage System: A NEM-Paired Storage System where the Integrated or Directly Connected Energy Storage Device(s) is sized 10 kW (AC) or smaller (i.e., maximum aggregate discharge capacity) and that meets the applicable sizing and metering requirements included in Special Condition 15 below.
 - m. Virtual Net Energy Metering (VNEM) – Paired Storage System: An arrangement where a storage device is included on the VNEM generating facility, where the storage device is located behind the same generation meter as that of the VNEM generating account and where control systems or relays are implemented to maintain NEM integrity by preventing the energy storage system from charging from the grid. (N)
- If the VNEM-paired storage device is found to charge from the grid, then this arrangement shall no longer be eligible for this tariff. (N)

2. Contracts: The Owner or Operator must execute the following contract(s) to qualify for this Schedule.

- a. Net Energy Metering (NEM) Generating Facility Interconnection Application (Form 14-957);
- b. Multifamily Affordable Solar Housing – Virtual Net Metering Interconnection Agreement (Form 14-653); and
- c. Multifamily Affordable Solar Housing – Virtual Net Metering Allocation Request Form (Form 14-654).

The Owner or Operator electing net surplus compensation for its Bundled Service common area and tenant service accounts must execute:

- a. A Net Surplus Compensation Rate Selection and Renewable Energy Credit Compensation Form (Form 14-906) to certify that the Owner's or Operator's generating facility is a Qualifying Facility pursuant to the Public Utility Regulatory Policies Act of 1978 that is exempt from certification at the Federal Energy Regulatory Commission. Service Accounts receiving NSC are defaulted to the bill credit option.
- b. A Renewable Energy Compensation Form (Form 14-935) at the end of each Relevant Period to receive Renewable Energy Compensation. See Special Condition 9.h.

The Owner or Operator must provide SCE all required forms in order that Service Accounts receive compensation.

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 5

SPECIAL CONDITIONS (Continued)

3. Upfront Installation Incentives: Pursuant to D.08-10-036 and D.15-01-027, the MASH program provides an upfront rebate for the installation of a qualifying solar energy system, based on an estimate of system performance using the Expected Performance Based Buydown (EPBB) methodology adopted in D.06-08-028. The specific upfront incentives applicable to the installation of a qualifying solar energy system can be found in the MASH Handbook at <http://www.gosolarcalifornia.ca.gov/affordable/mash.php>.
4. Metering Requirements: Metering requirements for service under this Schedule are as follows:
 - a. The Owner or Operator will be responsible for and will pay for all costs associated with installing, on each Eligible Generator, a net generation output meter (NGOM) capable of recording generator output in 15-minute intervals and the flow of energy in two directions at the point of common coupling where each Eligible Generator transfers energy to SCE's grid. The cost of the NGOM(s) is a one-time, upfront charge that includes material, labor, maintenance and replacement, and may vary from project to project depending on the type of NGOM required to interconnect a particular project. No additional load other than incidental load related to the inverters and support of the solar generator system may be registered on the meter. SCE must approve the location of the NGOM equipment, which will normally be grouped with the service and metering equipment for one or more of the tenant or common area meters.
 - b. Each Common Area Service Account will have a standard SCE billing meter. If the Owner or Operator takes service on a time-of-use (TOU) rate schedule, a meter capable of Interval Metering will be required on the Service Account of each Eligible Generator.
 - c. Each Tenant Service Account will have a standard SCE billing meter. If the residential tenant takes service on a TOU rate schedule, a meter capable of Interval Metering will be required on the Service Account of each Eligible Generator.
 - d. If the Generator Account is on DA service and the Owner uses a third-party Meter Data Management Agent (MDMA), the Owner will be responsible for any and all costs associated with providing SCE acceptable interval data into the SCE system on a timely basis.
 - e. Additional metering provisions specific to NEM-Paired Storage Systems are included in Special Condition 15 below. (N)
(N)
5. Interconnection Costs: The Owner or Operator of each Eligible Generator must pay all interconnection costs required under Rule 21, including but not limited to re-wiring, trenching, conduit, and other facility costs that are needed.
6. Annual Solar Energy Credit. The total energy (in kWhs) estimated to be recorded by the generation output meters on the Eligible Generators and allocated to the Qualified Customers must not exceed the total estimated energy usage (in kWhs) for the common area meters and tenant meters connected at the Service Delivery Point for the next twelve months for a new Residential Complex, or the previous twelve months' recorded energy usage for an existing Residential Complex. Compliance with this requirement will be determined at the onset of the program when SCE conducts an energy audit of the customer's Residential Complex.

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 6

SPECIAL CONDITIONS (Continued)

- 7. Generation Limitation: The sum of the capacities of all Eligible Generators is limited to the cumulative peak loads of all service accounts within the Residential Complex. No generator other than the Eligible Generator, as defined in this schedule, can be connected behind the single meter that is used to meter the load and generation output of each Eligible Generator. The Owner or Operator is responsible for any costs associated with upgrades to existing facilities necessitated by the installation of generation which exceeds the capacity of the existing service connection or distribution circuit
- 8. Relevant Period: A twelve-month period, or portion thereof, commencing on the next regularly scheduled meter read date following the Date of written approval of Parallel Operation of the Owner's or Operator's Eligible Generator to SCE's electric system, for purposes of participation in the MASH program, and on every subsequent anniversary of that date. For Qualified Customers electing to receive service under this Schedule for an Eligible Generator that is already interconnected to SCE's electric system, the Relevant Period will commence on the date the Qualified Customer begins receiving service under this Schedule and on every subsequent anniversary thereof.

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.

(N)
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(N)

- a. If a Qualified Customer terminates service or if the identity of the Qualified Customer changes before the end of a Relevant Period, the Relevant Period for that Qualified Customer's Service Account will consist of that period from the Interconnection Date, or a subsequent anniversary date, until the effective date of termination or change of identity. If the identity of the Qualified Customer changes at the location of an installed Service Account, a new Relevant Period will commence for that Qualified Customer on the next regularly scheduled meter read date following the date the new Qualified Customer takes service under this Schedule, and every subsequent anniversary.
- b. If an Owner or Operator terminates service under this Schedule for the Residential Complex prior to the end of any Relevant Period, the Relevant Period for all associated Common Area and Tenant Service Accounts will end on the effective date of the service termination.
- c. If a change of Owner or Operator occurs for a Residential Complex prior to the end of any Relevant Period, the Relevant Period for the Owner's or Operator's associated Common Area Service Accounts will end. The new Owner's or Operator's associated Common Area Service Accounts will automatically be placed on this Schedule and a Relevant Period will begin for that new Owner or Operator on the next regularly scheduled meter read date following the date the new Owner or Operator takes service under this Schedule, and every subsequent anniversary. Qualified Customers in individual tenant units will retain their designated Relevant Period as defined prior to the change of ownership.
- d. If a Qualified Customer experiences a change from DA or CCA Service to Bundled Service or from Bundled Service to DA or CCA Service, the Relevant Period will consist of that period from the anniversary date until the effective date of the change in service.

(Continued)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 7

SPECIAL CONDITIONS (Continued)

9. Billing Process: The following billing process will be used.
- a. Gross Credit: The total metered kWh output of all Eligible Generators, delivered to SCE's grid, as measured (metered) at the point of common coupling described in Special Condition 4.a.
 - b. Allocated Credit:
 - (i) The Owner or Operator must designate the percentage of the Gross Credit that will be allocated to Common Area Service Accounts and Tenant Service Accounts, respectively on the MASH – VNM Allocation Request Form. This allocation will become effective on the next regularly scheduled meter read date following the date on which SCE provides the Owner or Operator with written approval to begin parallel operation of the Eligible Generators with the electric grid, and it will remain in effect for a minimum of five years. For Qualified Customers electing to receive service under this Schedule for an Eligible Generator that is already interconnected to SCE's electric system, the allocation will become effective on the date the Qualified Customer begins receiving service under this Schedule, and will remain in effect for a minimum of five years.
 - (ii) The Owner or Operator must determine the percentage of Allocated Credit of the Eligible Generator(s) that will be further allocated to the individual Tenant Service Account(s) based on the relative size of the residential unit(s), generally consistent with the manner in which affordable housing rents are established. These allocations will remain in effect unless: (1) a unit becomes uninhabitable; (2) a unit that was previously removed or excluded from the allocation becomes habitable; (3) a new residential unit of the Residential Complex becomes available. At such time, the Owner or Operator may submit an updated MASH – VNM Allocation Request Form, which will remain in effect for a minimum of twelve months. An updated allocation under this provision will become effective on the next regularly scheduled meter read date that is at least 30 days after SCE receives the allocation request form.
 - (iii) The Owner or Operator must determine the percentage of Allocated Credit of the Eligible Generator(s) that will be further allocated to individual Common Area Service Accounts. These allocations will remain in effect until: (1) service to the Common Area Service Account(s) is permanently terminated; or (2) a new Common Area Service Account at the Residential Complex is established. At such time, the Owner or Operator may submit an updated MASH – VNM Allocation Request Form, which will remain in effect for a minimum of twelve months. An updated allocation under this provision will become effective on the next regularly scheduled meter read date that is at least 30 days after SCE receives the allocation request form.
 - (iv) The total allocation of kWhs to Common Area Service Account(s) is calculated by multiplying the common area percentage allocation by the Gross Credit. The individual allocation of kWhs to each Common Area Service Account is calculated by multiplying this total common area allocation by the percentage allocation for each individual Common Area Service Account. The total allocation of kWhs to Tenant Service Accounts is calculated by multiplying the tenant percentage allocation by the Gross Credit. The individual allocation of kWhs to each Tenant Service Account is calculated by multiplying this total tenant allocation by the percentage allocation for each individual Tenant Service Account.
 - (v) Allocated Credits for Qualified Customers utilizing NEM-Paired Storage Systems are billed in accordance with the provisions of Special Condition 15 below. (N)
(N)

(Continued)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 8

SPECIAL CONDITIONS (Continued)

9. Billing Process: (Continued)

c. Qualified Customer Bill: Qualified Customers served under this Schedule are responsible for all charges of their OAT. Each month, Allocated Credits, in kWhs, are subtracted from the metered usage, in kWhs. Charges are applied to the resulting kWh difference according to the provisions of the Qualified Customer's OAT. For DA and CCA Service Qualified Customers, applicable components of the Cost Responsibility Surcharge (CRS) are also applied to the resulting kWh difference according to the provisions of Schedule DA-CRS or Schedule CCA-CRS. The bill may therefore reflect either a charge or a credit. (N)

For DA and CCA Service Qualified Customers, the ESP or Community Choice Aggregator is responsible for providing the applicable generation-related energy charges or credits. Generation-related energy credits, if any, do not reduce the charges owed to SCE, and Delivery Service and/or CRS credits, if any, do not reduce the charges owed to the ESP or Community Choice Aggregator. (N)

d. OAT with Baseline Rates: Allocated Credits are subtracted first from the non-baseline usage, if any, and then subtracted from baseline usage until credits are exhausted.

e. OAT with TOU Rates: Allocated Credits for each TOU period are subtracted from the energy usage for that same TOU period.

f. Bill Payment: Qualified Customers are required to pay their bill on a monthly basis. Excess credits, in dollars, are carried over to the following billing period, until the end of the Relevant Period. An annual true-up occurs at the end of the Relevant Period, pursuant to PU Code Section 2827(h). Upon completion of the annual true-up, any remaining credits will be retained by SCE and the Qualified Customer will not be entitled to any compensation unless the Owner or Operator has executed the Net Surplus Compensation Rate Selection Form (Form 14-906) to certify that the generating facility is a Qualifying Facility pursuant to the Public Utility Regulatory Policies Act of 1978 that is exempt from certification at the Federal Energy Regulatory Commission. If the Owner or Operator elects such compensation, the Common Area Service Accounts and the Tenant Service Accounts with Net Allocated Energy will receive NSC. Additionally, Special Condition 14 may apply for Residential Customers.

The Common Area Service Accounts and the Tenant Service Accounts will continue to receive such compensation for each Relevant Period following the execution of such election, unless the Owner or Operator affirmatively elects to end Net Surplus Energy compensation. The Owner or Operator is eligible to revise their Net Surplus Energy elections, annually, as provided under Rule 12.

For DA and CCA Service Qualified Customers, separate annual true-ups of all charges and credits, consistent with the provisions set forth under this Schedule, will be calculated 1) by SCE for the applicable SCE charges and credits and 2) by the ESP or Community Choice Aggregator for the applicable ESP and CCA charges and credits. Upon completion of the annual true-up, any remaining Delivery Service and/or CRS credits will be retained by SCE and the Qualified Customer will not be entitled to any compensation from SCE. DA and CCA Service Qualified Customers are not eligible to receive Net Surplus Compensation (NSC) from SCE. (N)

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Schedule MASH-VNM
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Virtual Net Metering
(Continued)

Sheet 9

SPECIAL CONDITIONS (Continued)

9. Billing Process: (Continued)

g. NSCR is equal to the simple rolling average of SCE hourly \$-per-kWh prices from Hour Ending 08 through Hour Ending 17 (7 a.m. to 5 p.m.) for each day for the 12 month period corresponding to the customer's 12-month Relevant Period. The rolling average is calculated on a monthly basis to be effective the first of each month and is applied to all customers with a Relevant Period ending in that month. SCE uses a full 12 months (365 days, or 366 days for leap years) of DLAP prices, as published on the CAISO Open Access Same-time Information System (OASIS), ending the twentieth (20th) day of each month. SCE then calculates the NSCR within five days of the first of the month to allow the CAISO to finalize the day-ahead DLAP prices. This rate will be applied to all eligible net surplus generators, irrespective of their rate class. The NSCR will be posted on SCE's website and updated monthly.

h. The California Energy Commission (CEC) has determined the eligibility of net energy metering customer facilities for the Renewables Portfolio Standard (RPS) and has developed an ownership verification, tracking and certification process for Renewable Energy Credits (RECs) created by net surplus generators, which is set forth in the CEC's RPS Eligibility Guidebook, available at: <http://www.energy.ca.gov/renewables/documents/#rps>. (N)

Pursuant to D.11-06-016, SCE will include a Renewable Attribute Adder (RAA) with the NSC rate if Owner or Operator or the customer's aggregator provides a completed Form 14-935 (see Special Condition 2.b.) that shows that the customer: (1) has registered the generation facility at the WREGIS system. (2) has obtained RPS ownership certification from the CEC for the customer's net surplus generation and provides this certification to SCE; and (3) allows for the ownership of the RECs associated with the customer's net surplus electricity to be transferred to SCE. For details on the CEC and WREGIS certification process, refer to the CEC's RPS Eligibility Guidebook which can be found at the link shown above.

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. The RAA will only be paid to those net surplus generators who provide RECs to SCE.

Value of RECs = Net surplus kWhs x RAA. See RATES section.

At the conclusion of each Relevant Period, the eligible customer will notify SCE that the customer has transferred in WREGIS the RECs associated with the net surplus generation by completing Form 14-935 and will send the CEC RPS certificate with the form to SCE.

The RAA will be updated annually and is available at:
<https://www.sce.com/wps/portal/home/regulatory/tariff-books/rates-pricing-choices/renewable-energy-credit>

(N)
(L)

(Continued)

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Schedule MASH-VNM
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Virtual Net Metering
(Continued)

Sheet 10

SPECIAL CONDITIONS (Continued)

- 9 Billing Process: (Continued) (T)
- i. Bill payments made by the qualified customer within the relevant period will continue to be applied to the qualified customer account. (L)(T)
- j. Billing information: SCE will provide each Customer with its net energy consumption information with each regular bill. That information will include the current monetary balance owed to SCE for the net energy consumed since the start of the current relevant period. (T)
10. Insurance: Owner/Operator must keep in force the amount of property, common general liability and/or personal liability insurance Owner/Operator has in place at the time they initiate service on this tariff.
11. Release of Information: Owner/Operator agrees that SCE may from time to time release to the California Energy Commission and/or the California Public Utilities Commission information regarding the eligible Multifamily Affordable Solar Housing Residential Complex, including the Owner/Operator's name, each Solar Generating Facility's location, their capacity and operating characteristics, and Customer names and account numbers at the Residential Complex.
12. 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, form 14-653 Multifamily Affordable Solar Housing-Virtual Net Metering Interconnection Agreement for the Building Owner of Multifamily Affordable Building with a Solar Generating Facility of 1 Megawatt or Less) must complete and submit a copy of form 14-903 NEM/MASH-VNM Inspection Report to SCE, for each electrical generating facility, unless each such electrical generating facility and meter have been installed or inspected within the previous three years. The NEM/MASH Inspection Report must be prepared by a California licensed contractor who is not the owner or operator of any of the facilities or meters. A California licensed electrician must perform the inspection of the electrical portion of each facility and meter and sign the NEM/MASH-VNM Inspection Report. If an inspection is required, the customer must submit the fully completed NEM/MASH-VNM Inspection Report to SCE within 90 days of the customer becoming the customer of record at this account, or else the customer agrees to disconnect one of its Generating Facilities and inform SCE it no longer will take service on Schedule NEM or MASH-VNM. By signing the interconnection agreement, the NEM/MASH-VNM Inspection Report shall be incorporated into it. (L)
13. ESP Charges: Where SCE provides metering and billing for a Qualified DA Customer, SCE may recover the incremental costs related to virtual net energy metering and billing services from the Qualified Customer's ESP, as set forth in Schedule ESP-DSF.

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 11

SPECIAL CONDITIONS (Continued)

14. 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 Qualified Customer's Relevant Period, one of the following will occur: 1) for Residential Qualified Customers with Net Allocated Energy eligible to receive NSC via the separate check option – any remaining California Climate Credit balance will be added to the NSC owed the Qualified Customer and sent with the NSC check, or 2) for all other Residential Qualified Customers – any remaining California Climate Credit balance will be sent to the Qualified Customer via a separate check after the final billing statement for the current Relevant Period is issued.

15. NEM-Paired Storage Systems.

(N)

Pursuant to D.16-04-020 and D.14-05-033, where an Owner or Operator utilizes a NEM-Paired Storage System (as defined in Special Condition 1.j), the applicable provisions of this Special Condition 15 shall apply. Additionally, where this Special Condition conflicts with any other Special Condition within this Schedule, the provisions contained in this Special Condition shall prevail. Qualified Customers with NEM-Paired Storage Systems who take service under this Special Condition are exempt from Interconnection Request fees, Supplemental Review fees, Detailed Study costs, the costs associated with any Distribution or Network upgrades triggered by the Interconnection Request, and Standby charges.ⁱ

a. Sizing Requirements. The size of the Integrated or Directly Connected Energy Storage Device is determined by the inverter alternating current (AC) nameplate rating.

i. Small NEM-Paired Storage System: There are no additional sizing requirements for the Integrated or Directly Connected Energy Storage Device(s) relative to the size of the solar PV.

ii. Large NEM-Paired Storage System: The maximum aggregate output capacity of the Integrated or Directly Connected Energy Storage Device(s) can be no greater than 150 percent of the solar PV's maximum output capacity. For example, if the maximum output capacity of the solar PV is 15 kW, the maximum aggregate output capacity of the Integrated or Directly Connected Energy Storage Device(s) can be no greater than 30 kW.

b. Metering Requirements.

i. Small NEM-Paired Storage Systems. An estimation methodology, as described in Section 15.c below, shall apply in lieu of additional metering. As an alternative option, at the start of a new Relevant Period, Qualified Customers may elect to adhere to the metering and billing requirements applicable to Large NEM-Paired Storage Systems. Qualified Customers who elect this option shall not be subject to the estimation methodology so long as the necessary metering requirements are in place. The cost of the metering required under this option shall not exceed \$600, unless Complex Metering, as described below, is required. For Small NEM-Paired Storage Systems that are unable to meet the metering requirements of Large NEM-Paired Storage Systems, the estimation methodology shall apply.

(N)(L)

ⁱ In the event the Integrated or Directly Connected Energy Storage Device is added subsequent to the date that the solar PV received Permission to Operate, the same interconnection cost categories applicable to the solar PV shall apply to the Integrated or Directly Connected Energy Storage Device.

(N)
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(N)

(Continued)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 12

SPECIAL CONDITIONS (Continued)

15. NEM-Paired Storage Systems. (Continued)

b. Metering Requirements. (Continued)

- ii. Large NEM-Paired Storage Systems. Qualified Customers must adhere to the metering and billing requirements contained within Special Condition 4.b of Schedule NEM. For metering and billing purposes only, the Integrated or Directly Connected Energy Storage Device is treated as the Non-NEM Eligible Generator when applying the provisions of Special Condition 4.b of Schedule NEM. The cost of the metering required under this provision shall not exceed \$600, unless Complex Metering, as described below, is required. Eligible Generators that are unable to meet the metering requirements of Special Condition 4.b of Schedule NEM are ineligible for service under this Schedule as a NEM-Paired Storage System.
- iii. Complex Metering. A NEM-Paired Storage System that utilizes more than two self-contained meters in addition to the SCE revenue meter(s) or any non-self-contained meters (i.e., those that include CTs/PTs) (not including the SCE revenue meter(s)) is considered as having Complex Metering for the purposes of this Special Condition.

c. Estimation Methodology for Small NEM-Paired Storage Systems (where storage is < or = 10 kW rated capacity). (N)

Small NEM-Paired Storage billing uses an “estimation method” that caps maximum allowable NEM bill credits based on solar photovoltaic (PV) generation estimates. The approach used to develop the generation estimates applied to NEM-Paired Storage billing is as follows:

- i. SCE has established a maximum cap for NEM-eligible exports by California Energy Commission (CEC) Climate Zone for each calendar month based on standardized monthly estimates that are scaled for a given NEM customer based on the size of the customer’s solar system.
- ii. To develop the generation estimates, SCE used the California Solar Initiative Expected Performance-Based Buydown (CSI EPBB) calculator to produce a single, scalable, production factor table. This table captures the estimated amount of kWh generated per installed kW of solar PV capacity (kWh/kW production factor) for each calendar month and each of the nine CEC Climate Zones in SCE’s service area. Climate Zones are referred to as Baseline Regions in SCE’s tariffs.
- iii. For a given NEM-Paired Storage customer, the NEM-eligible cap on exports is calculated by multiplying the Qualified Customer-appropriate production factor for a given month and Climate Zone (based on billing period and location) and scaling the kWh by the customer’s PV installed capacity (in kW).

(N)

(L)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 13 (N)

SPECIAL CONDITIONS (Continued)

15. NEM-Paired Storage Systems (Continued)

- c. Estimation Methodology for Small NEM-Paired Storage Systems...(Continued) (N)
- iv. The solar PV configuration assumptions used in the CSI EPBB calculator to generate the scalable production factor table are the following:
 - Tilt: If Optimal Tilt as defined by the EPBB Calculator was <20 degrees for a given Climate Zone, then 20 degree tilt was used, otherwise Optimal Tilt as defined by the EPBB Calculator was used
 - Azimuth: 180 degrees
 - For each climate zone, identified the three zip codes with the most residential PV installations; chose the zip code with the highest generation estimate per the EPBB calculator
 - Panel: SunPower.SPR-327NE-WHT-D
 - Inverter: SPR-X20-327-C-AC (240V) or any other micro-inverter designed to match the panels.
 - As a reference, inverter efficiency is 96%.
 - Mounting Method: > 6 " average standoff (EPBB default)
 - Shade: Minimal (EPBB default)
- v. Once implemented in SCE's billing system, Qualified Customers subject to this provision shall have a maximum monthly generation output cap established for each calendar month based on the "production factor table."
- vi. In all cases, the first day of the Customer's Billing Period determines which calendar month cap is used for that Billing Period. For example, if the Qualified Customer's Billing Period starts on January 15 and ends on February 15, the January cap is used. (N)
- vii. Any Allocated Credits that exceed the monthly cap are not eligible for NEM credit and are forfeited by the Qualified Customer. For example, if a Qualified Customer's monthly cap amount for January is 500 kWh and the Qualified Customer is allocated 525 kWh for that monthly Billing Period, 25 kWh are not eligible for NEM credit and are forfeited. The forfeited kWh are assumed to have occurred during the Qualified Customer's highest priced TOU period, regardless of when the energy was actually exported. If the amount of forfeited kWh for a Billing Period exceeds the amount of Allocated Credits for the Qualified Customer's highest priced TOU period, the remaining kWh subject to forfeit are then removed from the next highest priced TOU period and so on until all kWh subject to forfeit are accounted for. For example, if a Qualified Customer has a July monthly cap amount of 700 kWh and is allocated 1,000 kWh, 300 kWh must be forfeited. If the Qualified Customer was allocated 200 kWh in the Summer On-peak period and 800 kWh in the Summer Mid-Peak period, 200 kWh of the forfeited 300 kWh are removed from the Summer On-Peak period (so the Qualified Customer's Allocated Credit during the Summer On-Peak period is billed at zero); the remaining 100 kWh of the forfeited 300 kWh are removed from the Summer Mid-Peak period (so the Qualified Customer's Allocated Credit during the Summer Mid-Peak period is billed at 700 kWh). Forfeited kWh are not eligible for NSC. (L) (T)

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
(Continued)

Sheet 14 (T)

SPECIAL CONDITIONS (Continued)

15. NEM-Paired Storage Systems. (Continued)

- d. Interconnection and Safety Requirements. NEM-Paired Storage Systems must meet the technical and safety standards required for interconnection under Rule 21. This includes evaluation under the same technical interconnection standards currently applied to Generating Facilities that are not paired with energy storage devices.
- e. NEM Transition Provisions. NEM-Paired Storage Systems are subject to the transition provisions included in Special Condition 16 below. In regards to Special Condition 16.b, NEM-Paired Storage Systems shall remain eligible for service under this Schedule provided the capacity of the Integrated or Directly Connected Energy Storage Device(s) is not increased by more than 10 percent of its original maximum aggregate output capacity.

16. MASH-VNM Transition Provisions: This Special Condition is applicable to all Qualified Customers who are receiving service on this Schedule, or who have submitted all documentation necessary for receiving service on this Schedule, prior to SCE reaching its NEM trigger level or July 1, 2017, whichever is earlier.

a. 20-Year Transition Period.

Pursuant to Decision 14-03-041, Qualified Customers who are receiving service on this Schedule prior to SCE reaching its NEM trigger level or July 1, 2017, whichever is earlier, are eligible to continue receiving service on this Schedule for a period of 20 years from the original year in which their Eligible Generator was interconnected to SCE's grid, indicated by and measured from the date on which the Qualified Customer initially received permission to operate (PTO) the Eligible Generator from SCE and ending at the conclusion of the Qualified Customer's applicable Relevant Period that ends immediately on or after the 20th anniversary of the original PTO date. For example, if a Qualified Customer initially received PTO on April 1, 2014, the Qualified Customer is eligible to continue receiving service on this Schedule through the conclusion of the Relevant Period ending immediately on or after March 31, 2034. Qualified Customers that complete and submit all required documentation for service on this Schedule to SCE prior to SCE reaching its NEM trigger level or July 1, 2017, whichever is earlier, are eligible for the 20-year transition period, which will commence on the Qualified Customer's PTO date, even if the PTO date is on or after the date SCE reaches its NEM trigger level or July 1, 2017, whichever is earlier. Qualified Customers have the option of transitioning to the successor tariff to this Schedule (i.e., Schedule MASH-VNM-ST), subject to the terms and conditions contained therein, prior to the conclusion of their 20-year transition period. However, Qualified Customers electing this option permanently forfeit any of their Eligible Generator's remaining transition period eligibility on this Schedule and may not later change back to receiving service under this Schedule.

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Schedule MASH-VNM
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Virtual Net Metering
(Continued)

SPECIAL CONDITIONS (Continued)

16. MASH-VNM Transition Provisions. (Continued)

b. Modifications.

Eligible Generators eligible for the 20-year transition period that are modified and/or repaired on or after when SCE reaches its NEM trigger level or July 1, 2017, whichever is earlier, shall remain eligible for the remainder of their 20-year transition period as long as the modifications and/or repairs do not increase the Eligible Generator by more than the greater of (1) 10 percent of the Eligible Generator's nameplate rating capacity, as established when the Eligible Generator was originally interconnected, or (2) 1 kW; and provided the modifications and/or repairs do not result in the Eligible Generator exceeding a total generation capacity of 1 MW and the generation limitation as provided in Special Conditions 1.g.iii and 7 of this Schedule. Qualified Customers making modifications and/or additions to their Eligible Generators on or after when SCE reaches its NEM trigger level or July 1, 2017, whichever is earlier, that exceed the 10 percent of 1 kW limit referenced above have the option of either metering the additions and/or modifications separately under the successor tariff, or having the entire Eligible Generator served under the successor tariff, subject to the terms and conditions contained therein.

c. Transferability.

Eligible Generators eligible for the 20-year transition period shall not lose their eligibility if transferred to a new owner, operator, or SCE account, provided the Eligible Generator remains at its original location and the Qualified Customer has not elected or does not elect to transition to the successor tariff. The transfer of an Eligible Generator to a new location is considered a new installation requiring a new interconnection agreement and would not qualify for the 20-year transition period if the relocation occurs on or after when SCE reaches its NEM trigger level or July 1, 2017, whichever is earlier.

d. Integrated or Directly Connected Energy Storage Devices.

Integrated or Directly Connected Energy Storage Devices shall be treated in the same way, and be subject to the same transition period, as the Eligible Generators to which they are connected.

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Schedule MASH-VNM
Multifamily Affordable Solar Housing
Virtual Net Metering
 (Continued)

Sheet 16 (T)

SPECIAL CONDITIONS (Continued)

17. Virtual Net Energy Metering (VNEM)-Paired Storage Systems.

Pursuant to D.17-12-005, where an Owner or Operator utilizes a VNEM-Paired Storage System (as defined in Special Condition 1.m.), the applicable provisions of this Special Condition shall apply. Additionally, where this Special Condition conflicts with any other Special Condition within this Schedule, the provisions contained in this Special Condition shall prevail. Qualified Customers with VNEM-Paired Storage Systems who take service under this Special Condition are exempt from Interconnection Request fees, Supplemental Review fees, Detailed Study Costs, the costs associated with any Distribution or Network upgrades triggered by the Interconnection Request, and Standby Charges.ⁱ

- a. A VNEM-Paired Storage System shall consist of one of the following; (1) physical non-import relay to prevent storage from charging from the grid, (2) Control functionally equivalent physical non-import relay as outlined in the SCE NEM Handbook to prevent the storage from charging from the grid.
- b. Sizing Requirements. The storage device size is determined by the inverter alternating current (AC) nameplate rating. Requirements may differ depending on the size of the storage device.

ⁱ In the event the storage device is added subsequent to the date that the solar PV received Permission to Operate, the same interconnection cost categories applicable to the solar PV shall apply to VNEM-Paired Storage System device. (P)
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(P)

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