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October 21, 2013

**ADVICE LETTER 2529-E**  
(U902-E)

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

**SUBJECT: MODIFICATION OF SDG&E's NET ENERGY METERING TARIFFS AND RELATED FORMS PURSUANT TO SENATE BILL 594 AND RESOLUTION E-4610.**

San Diego Gas & Electric Company ("SDG&E") hereby submits to the California Public Utilities Commission ("CPUC" or "Commission") for approval the following revisions to its electric tariff sheets as shown in enclosed Attachment A.

#### **BACKGROUND**

On September 27, 2012, Senate Bill ("SB") 594 (Wolk, 2012) was approved by Governor Jerry Brown expanding the Net Energy Metering ("NEM") programs and modifying various parts of Public Utilities Code Section ("PU Code §") 2827, which outlines the State's NEM protocols. Specifically, SB 594 authorizes an eligible customer-generator<sup>1</sup> with multiple meters to elect to aggregate the electrical load of the meters located on the property where the renewable electrical generation facility is located and on all property adjacent or contiguous to the property on which the renewable electrical generation facility is located, if those properties are solely owned, leased, or rented by the eligible customer-generator ("NEM Aggregation"). SB 594 established the following requirements for eligible customer-generators that elect NEM Aggregation:

- An eligible customer-generator shall be "permanently ineligible to receive net surplus electricity compensation, and the electric utility shall retain any kilowatthours in excess of the eligible customer-generator's aggregated electrical load generated during the 12-month period";<sup>2</sup>
- The electricity generated by the renewable electrical generation facility shall be allocated to each of the meters, and computed each billing period, in proportion to the electrical load served by those meters;

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1 "Eligible customer-generator" is defined as a residential customer, small commercial customer as defined in subdivision (h) of Section 331, or commercial, industrial, or agricultural customer of an electric utility, who uses a renewable electrical generation facility, or a combination of those facilities, with a total capacity of not more than one megawatt, that is located on the customer's owned, leased, or rented premises, and is interconnected and operates in parallel with the electrical grid, and is intended primarily to offset part or all of the customer's own electrical requirements. (SB 594 (Wolk, 2012), Section 1(b)(4). 2 Id., Section 1 (h)(4)(B). "Premises" is defined as "[A]ll of the real property and apparatus employed in a single enterprise on an integral parcel of land undivided [...]." SDG&E Electric Tariff Rule 1 (exceptions omitted).

- Parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are otherwise contiguous and under the same ownership;
- An eligible customer-generator's renewable electrical generation facility, or a combination of those facilities, must have a total generating capacity of not more than one megawatt ("MW"); and
- An eligible customer-generator shall remit service charges for the cost of providing billing services to the electric utility that provides service to the meters.

However, NEM Aggregation could only become operative if the Commission determined that allowing eligible customer-generators to aggregate their load from multiple meters would not result in an increase in the expected revenue obligations of customers who are not eligible customer-generators.

In accordance with SB 594, the Commission approved Resolution E-4610 on September 19, 2013, finding, among other things, that allowing eligible customer-generators to aggregate their load served from multiple meters for the purpose of NEM will not result in an increase in the expected revenue obligations of customers who are not eligible customer generators and ordered SDG&E, Pacific Gas & Electric Company, and Southern California Edison Company to revise their respective NEM tariffs to enable meter aggregation pursuant to SB 594.

## **DISCUSSION**

In compliance with Resolution E-4610, SDG&E is revising its NEM tariff to enable NEM Aggregation pursuant to SB 594. In doing so, SDG&E submits that its interconnection and billing processes will require changes to accommodate the complexities associated with NEM Aggregation. Due to the required modifications of SDG&E's current processes to comply with both Resolution E-4610 and SB 594, SDG&E requests authorization to create a new memorandum account to track incremental billing-related costs that are in excess of current NEM program costs. Additional details addressing the required changes to SDG&E's interconnection and billing processes to implement NEM Aggregation are further described below.

### **Interconnection for NEM Aggregation**

To be eligible for service under NEM Aggregation, an eligible customer-generator (also referred to as the customer) must satisfy the requirements set forth in SDG&E's tariffs, Resolution E-4610 and SB 594. Therefore, SDG&E is proposing changes to its NEM Application and Interconnection Agreement ("ICA") form that will allow the customer to indicate his preference to aggregate. Additionally, SDG&E is proposing a new NEM Aggregation form that will be used as a supplement to the ICA. The new NEM Aggregation form will require the customer to list all the meters and accounts, including the account(s) associated with the renewable electrical generation facility that it intends to include in the aggregation arrangement. The customer must also select on the NEM Aggregation form its preferred method for interconnecting to the electrical grid, as explained in SDG&E's tariffs. Lastly, the new form will require the customer to declare, under penalty of perjury, that the meters listed in the NEM Aggregation form are located on property that is adjacent or contiguous to the premise on which the renewable electrical generation facility is located.

SDG&E notes that, in some cases, the completion of the administrative process for NEM Aggregation may require more time than for traditional NEM. For example, under NEM Aggregation, it is very likely that customers will want to install larger facilities than they otherwise would under traditional NEM that may trigger the need for an interconnection study under SDG&E's Electric Rule 21 ("Rule 21"). Should the request for interconnection require a Rule 21 study, the processing of such a request may extend beyond the normal 30-working-day processing of requests for interconnection under the traditional NEM program. This is because the customer's interconnection agreement, which is one of the requirements of NEM Aggregation, cannot be executed until that study is completed.

### **Billing for NEM Aggregation**

As mentioned above, a customer electing NEM Aggregation must provide SDG&E a list of all meters and accounts that it intends to include in the aggregation arrangement. The accounts that will be aggregated with the renewable electrical generation facility will be referred to as "aggregated accounts."

SDG&E is proposing that customers electing NEM Aggregation would be charged a one-time service establishment fee of \$156 per meter. This fee would recover the incremental costs associated with setting up the meter on NEM Aggregation and the monthly billing process.

Should a customer's aggregation arrangement include more than one renewable electrical generating facility, or generating account, the generation from all renewable electrical generating facilities in the arrangement will be first aggregated together and then allocated to the designated accounts. The customer would be charged a one-time fee of \$216 for each meter in the aggregated arrangement, due to the additional billing-related complexity of creating and maintaining the aggregation of the generation credits from multiple generators for the set-up and monthly billing process.

Consistent with traditional NEM, NEM Aggregation will determine the net balance between the electric energy supplied by SDG&E to the NEM Aggregation customer and the electric energy generated by the eligible customer-generator and fed to the electric grid, over a 12-month period ("Relevant Period"). NEM Aggregation returns the customer's net balance to zero at the end of each Relevant Period. All aggregated accounts must have the same Relevant Period. A customer would be permitted to amend the aggregation arrangement at any time during the Relevant Period. However, if a new meter is added, the customer will be billed the corresponding set-up fee for the additional meter, using the one-time service establishment fee described above. Conversely, if a meter is removed from the aggregated arrangement, the aggregated arrangement change will not require an additional fee.

Due to the complexities of updating the billing system for NEM Aggregation, SDG&E will begin its implementation using a manual billing process. This manual process will be performed on a monthly basis using Excel spreadsheets. These spreadsheets will be used to track the total monthly generation and monthly metered customer loads required for deriving the applicable kWh allocations that will vary on a monthly basis. The credits will then be calculated in the spreadsheets and manually applied to the corresponding monthly bills. A manual billing process is necessary because an automated process would require significant human resources and billing system automation upgrades, which cannot be completed prior to Resolution E-4610's required NEM Aggregation implementation date. SDG&E estimates that automating the NEM Aggregation billing process will take approximately six months and cost

about \$200,000. Although SDG&E anticipates it will automate this process in the future, the described manual process will be implemented in the interim.

### **Tariff Modifications**

SDG&E submits modifications to the following Rate Schedules and associated forms to comport with the PU Code revisions enacted by SB 594.

Rate Schedules:

- NEM – Net Energy Metering

Associated Forms:

- 142-02765 – NEM Application and Interconnection Agreement for Electric Generating Facilities of 30 Kilowatts or Less
- 142-02766 – NEM Application and Interconnection Agreement for Electric Generating Facility Greater than 30 Kilowatts up to 1000 Kilowatts
- 142-02769 – NEM Aggregation Form (*NEW*)

### **Tracking Interconnection Costs**

Pursuant to Ordering Paragraph (“OP”) 4 of Resolution E-4610, SDG&E must immediately begin tracking the costs of interconnection for all NEM customers. While SDG&E began putting systems in place to track these costs immediately as soon as Resolution E-4610 was effective, SDG&E requests authorization to formally track interconnection costs for all NEM customers beginning in November, 2013. SDG&E will submit the required report on September 19, 2014 providing the interconnection costs for all NEM customers.

### **EFFECTIVE DATE**

SDG&E believes this filing is subject to Energy Division disposition and should be classified as Tier 2 (effective after staff approval) pursuant to GO 96-B. This filing is consistent with Resolution E-4610 and therefore SDG&E respectfully requests that this filing be approved on November 20, 2013, which is 30 days after the date filed.

### **PROTEST**

Anyone may protest this Advice Letter to the California Public Utilities Commission. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. The protest must be made in writing and must be received no later than November 10, 2013, which is within 20 days of the date this Advice Letter was filed with the Commission. There is no restriction on who may file a protest. The address for mailing or delivering a protest to the Commission is:

CPUC Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, CA 94102

Copies of the protest should also be sent via e-mail to the attention of the Energy Division at [EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov). **A copy of the protest should also be sent via both e-mail and facsimile to the address shown below on the same date it is mailed or delivered to the Commission.**

Attn: Megan Caulson  
Regulatory Tariff Manager  
8330 Century Park Court, Room 32C  
San Diego, CA 92123-1548  
Facsimile No. (858) 654-1879  
E-mail: [MCaulson@semprautilities.com](mailto:MCaulson@semprautilities.com)

### **NOTICE**

A copy of this filing has been served on the utilities and interested parties shown on the attached list including parties in R.12-11-005 and R.10-05-004, by either providing them a copy electronically or by mailing them a copy hereof properly stamped and addressed.

Address changes should be directed to SDG&E Tariffs by facsimile at (858) 654-1879 or by email to [SDG&ETariffs@semprautilities.com](mailto:SDG&ETariffs@semprautilities.com).

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CLAY FABER  
Director – Regulatory Affairs

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

**MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)**

Company name/CPUC Utility No. **SAN DIEGO GAS & ELECTRIC (U 902)**

Utility type:

ELC     GAS  
 PLC     HEAT     WATER

Contact Person: Christina Sondrini

Phone #: (858) 636-5736

E-mail: csondrini@semprautilities.com

### EXPLANATION OF UTILITY TYPE

ELC = Electric    GAS = Gas  
PLC = Pipeline    HEAT = Heat    WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: 2529-E

Subject of AL: Modification of SDG&E's Net Energy Metering Tariffs and Related Forms Pursuant to Senate Bill 594 and Resolution E-4610

Keywords (choose from CPUC listing): Compliance, NEM

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other \_\_\_\_\_

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #:

SB 594 & E-4610

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: N/A

Summarize differences between the AL and the prior withdrawn or rejected AL<sup>1</sup>: N/A

Does AL request confidential treatment? If so, provide explanation: N/A

Resolution Required?  Yes  No

Tier Designation:  1  2  3

Requested effective date: 11/20/2013

No. of tariff sheets: 22

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: Schedule NEM, Forms 142-02765, 142-02766, 142-02769 and TOC

Service affected and changes proposed<sup>1</sup>: N/A

Pending advice letters that revise the same tariff sheets: N/A

**Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:**

CPUC, Energy Division  
Attention: Tariff Unit  
505 Van Ness Ave.,  
San Francisco, CA 94102  
EDTariffUnit@cpuc.ca.gov

San Diego Gas & Electric  
Attention: Megan Caulson  
8330 Century Park Ct, Room 32C  
San Diego, CA 92123  
mcaulson@semprautilities.com

<sup>1</sup> Discuss in AL if more space is needed.

General Order No. 96-B  
ADVICE LETTER FILING MAILING LIST

cc: (w/enclosures)

Public Utilities Commission

DRA

S. Cauchois  
R. Pocta  
W. Scott

Energy Division

P. Clanon  
S. Gallagher  
D. Lafrenz  
M. Salinas

CA. Energy Commission

F. DeLeon  
R. Tavares

Alcantar & Kahl LLP

K. Cameron

American Energy Institute

C. King

APS Energy Services

J. Schenk

BP Energy Company

J. Zaiontz

Barkovich & Yap, Inc.

B. Barkovich

Bartle Wells Associates

R. Schmidt

Braun & Blaising, P.C.

S. Blaising

California Energy Markets

S. O'Donnell  
C. Sweet

California Farm Bureau Federation

K. Mills

California Wind Energy

N. Rader

Children's Hospital & Health Center

T. Jacoby

City of Poway

R. Willcox

City of San Diego

J. Cervantes  
G. Lonergan  
M. Valerio

Commerce Energy Group

V. Gan

CP Kelco

A. Friedl

Davis Wright Tremaine, LLP

E. O'Neill  
J. Pau

Dept. of General Services

H. Nanjo  
M. Clark

Douglass & Liddell

D. Douglass  
D. Liddell  
G. Klatt

Duke Energy North America

M. Gillette

Dynergy, Inc.

J. Paul

Ellison Schneider & Harris LLP

E. Janssen

Energy Policy Initiatives Center (USD)

S. Anders

Energy Price Solutions

A. Scott

Energy Strategies, Inc.

K. Campbell

M. Scanlan

Goodin, MacBride, Squeri, Ritchie & Day

B. Cragg

J. Heather Patrick

J. Squeri

Goodrich Aerostructures Group

M. Harrington

Hanna and Morton LLP

N. Pedersen

Itsa-North America

L. Belew

J.B.S. Energy

J. Nahigian

Luce, Forward, Hamilton & Scripps LLP

J. Leslie

Manatt, Phelps & Phillips LLP

D. Huard

R. Keen

Matthew V. Brady & Associates

M. Brady

Modesto Irrigation District

C. Mayer

Morrison & Foerster LLP

P. Hanschen

MRW & Associates

D. Richardson

Pacific Gas & Electric Co.

J. Clark

M. Huffman

S. Lawrie

E. Lucha

Pacific Utility Audit, Inc.

E. Kelly

San Diego Regional Energy Office

S. Freedman

J. Porter

School Project for Utility Rate Reduction

M. Rochman

Shute, Mihaly & Weinberger LLP

O. Armi

Solar Turbines

F. Chiang

Southern California Edison Co.

M. Alexander  
K. Cini  
K. Gansecki  
H. Romero

TransCanada

R. Hunter  
D. White

TURN

M. Hawiger

UCAN

D. Kelly

U.S. Dept. of the Navy

K. Davoodi

N. Furuta

L. DeLacruz

Utility Specialists, Southwest, Inc.

D. Koser

Western Manufactured Housing

Communities Association

S. Dey

White & Case LLP

L. Cottle

Interested Parties In:

R.12-11-005

R.10-05-004

ATTACHMENT A  
ADVICE LETTER 2529-E

Cal. P.U.C. Sheet No.	Title of Sheet	Canceling Cal. P.U.C. Sheet No.
Revised 23792-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 1	Revised 23221-E
Revised 23793-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 2	Revised 22598-E
Revised 23794-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 3	Revised 22599-E
Revised 23795-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 4	Revised 22600-E
Revised 23796-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 5	Revised 21366-E
Revised 23797-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 6	Revised 22601-E
Revised 23798-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 7	Revised 22602-E
Revised 23799-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 8	Revised 23231-E
Revised 23800-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 9	Revised 22604-E
Revised 23801-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 10	Revised 22605-E
Original 23802-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 11	
Original 23803-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 12	
Original 23804-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 13	
Original 23805-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 14	
Original 23806-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 15	
Original 23807-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 16	
Revised 23808-E	SAMPLE FORMS, , FORM 142-02765, Sheet 1	Revised 23272-E
Revised 23809-E	SAMPLE FORMS, FORM 142-02766, Sheet 1	Original 23273-E
Original 23810-E	SAMPLE FORMS, FORM 142-02769, Sheet 1	
Revised 23811-E	TABLE OF CONTENTS, Sheet 1	Revised 23773-E
Revised 23812-E	TABLE OF CONTENTS, Sheet 5	Revised 23763-E
Revised 23813-E	TABLE OF CONTENTS, Sheet 10	Revised 23511-E





**SCHEDULE NEM**  
**NET ENERGY METERING**

Sheet 1

APPLICABILITY

Pursuant to California Public Utilities Code (PU Code) Section 2827, this schedule is applicable to a residential, small commercial (as defined in subdivision (h) of Section 331 of the PU Code), commercial, industrial, or agricultural customer who uses a Renewable Electrical Generation Facility, as defined in Special Condition 1.b, or a combination of those facilities, with a total capacity of not more than 1,000 kilowatts (kW) that is located on the customer's owned, leased, or rented premises, is interconnected and operates in parallel with the Utility's transmission and distribution systems, and is intended primarily to offset part or all of the customer's own electrical requirements (hereinafter "eligible customer-generator" or "customer"). Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Energy Service Providers (ESPs) serving eligible customer-generators.

This service is not applicable to a Direct Access (DA) customer where the customer's ESP does not offer a net energy metering tariff. In addition, if an eligible customer-generator participates in direct transactions with an electric provider that does not provide distribution service for the direct transactions, the electric provider, and not the Utility, is obligated to provide net energy metering to the customer (also see Special Condition 3.e).

Pursuant to Decision 08-02-002 and notwithstanding all applicable terms and conditions contained herein, to the extent a Community Choice Aggregator (CCA) offers a net energy metering tariff, Utility shall provide applicable NEM services under this schedule to an eligible CCA 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 customer-generator to the utility. Each eligible CCA 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 customer-generator with the applicable generation-related bill credit.

This schedule shall be available to eligible customer-generators, upon request, on a first-come-first-served basis until the time that the total rated generating capacity used by both NEM and VNM-A eligible customer-generators exceeds 5% of SDG&E's aggregate customer peak demand, defined as the highest sum of all customers' non-coincident peak demands that occurs in any calendar year.

Schedule NEM applies also to specified Net Energy Metering eligible (NEM-eligible) generators in a Generating Facility comprised of multiple NEM- and non-NEM-eligible generators, served through the same Point of Common Coupling (PCC), where the NEM-eligible generating capacity is not more than 1 MW. Such facilities will be referred to as Multiple Tariff Facilities, and any group of generators within such a facility that are subject to the same tariff provisions for billing and metering purposes will be referred to as a Constituent Generator Group. In order to be eligible for this rate schedule in a Multiple Tariff Facility, the customer-generator must meet all the requirements of Special Condition 6 for the schedule NEM-eligible generator, and must also meet any other applicable tariffs. Customer-generator must also complete a Generating Facility Interconnection Agreement (Multiple Tariff) (Form 117-2160).

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

(Continued)

1P4	Issued by	Date Filed	Oct 21, 2013
Advice Ltr. No. 2529-E	<b>Lee Schavrien</b>	Effective	
Decision No.	Senior Vice President	Resolution No.	E-4610



**SCHEDULE NEM**  
**NET ENERGY METERING**

Sheet 2

APPLICABILITY (Continued)

Schedule NEM applies to an eligible customer-generator with multiple meters that may elect to aggregate the electrical load of the meters located on the customer's owned, leased, or rented premises where the renewable electrical generation facility is located. Such program will be referred to as NEM Aggregation. To be eligible for NEM Aggregation, an eligible customer-generator must meet all the requirements in Special Condition 8 and complete the NEM Aggregation Appendix to SDG&E's NEM Interconnection Application.

As of January 1, 2010, a customer who owns, rents or leases a premises that includes a Renewable electrical generation facility, or a combination of those facilities with a capacity of 30kW or less, that were previously approved by SDG&E for NEM interconnection prior to the customer moving in and/or taking electric service with SDG&E (Change of party customer) will take service on this tariff as long as the requirements of this section are met.

To be eligible, the Change of party customer must: 1) ensure that the Generating Facility is compliant with all applicable safety and performance standards as delineated in SDG&E's Electric Rule 21 and other applicable tariffs; 2) keep in force the amount of property, commercial general liability and/or personal liability insurance the Change of party customer has in place at the time they initiate service on this tariff; 3) understand that SDG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Change of party customer's facility, including Change of party customer's name and Generating Facility location, capacity and operational characteristics.

Change of party customers making any modification to previously approved SDG&E NEM Renewable electrical generation facility are not eligible for this provision and must complete the interconnection process in Special Condition 4 of this tariff.

Change of party customers also must agree to comply with all rules and requirements of SDG&E's Net Energy Metering tariffs.

When the builder/developer of a subdivision sells a new home during the NEM application process, after the builder/developer completes the Net Energy Metering Application and Interconnection Agreement for customers with Solar and/or Wind Generating Facility of 30kW or Less (Form 142-02765) and otherwise meets all of SDG&E's requirements for the NEM interconnection, but prior to SDG&E providing final written approval for Parallel Operation on Schedule NEM, SDG&E may treat the new home owner/customer as a Change of party customer, as defined above.

TERRITORY

Within the entire territory served by the Utility.

RATES

All rates charged on this schedule will be in accordance with the eligible customer-generator's otherwise applicable metered rate schedule (OAS). An eligible customer-generator served under this schedule is responsible for all charges from its OAS including monthly billed minimum charges, customer charges, meter charges, facilities charges, energy and demand charges, and excluding any adjustments due to power factor provisions. Applicable demand charges are defined in the OAS.

(Continued)

2P5	Issued by	Date Filed	Oct 21, 2013
Advice Ltr. No. <u>2529-E</u>	<b>Lee Schavrien</b>	Effective	
Decision No. _____	Senior Vice President	Resolution No.	E-4610



**SCHEDULE NEM**  
**NET ENERGY METERING**

Sheet 3

RATES (Continued)

Customers eligible for service under this schedule are not required to take service under Schedule S, Standby Service, or Schedule S-I, Standby Service-Interruptible, for the qualifying generators. Multiple Tariff Facilities that are interconnected under the terms of Special Condition 6 may be subject to the requirements of Schedule S or S-I. To the extent that charges for transmission and distribution services are recovered through demand charges in any billing period, no standby charges shall apply in that monthly billing cycle, except Multiple Tariff Facilities interconnected under the terms of Special Condition 6 may be subject to the requirements of Schedules S or S-I.

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

Customer-generators with Multiple Tariff Facilities with existing NEM and/or NEM-FC eligible generators interconnecting additional generators, will receive a bill true-up prior to taking service under Special Condition 7. This ensures that all NEM accounts have the same Relevant Period, as defined in Special Condition 3, going forward.

The charges and credits for customer-generators electing NEM Aggregation under the provisions of Special Condition 8 will be calculated using the current OAS in affect for each service. In the event one or more of the accounts to be aggregated is currently receiving NEM under this schedule, to ensure that all accounts in the aggregation arrangement have the same Relevant Period, the accounts will be trued-up prior to taking service under Special Condition 8.

All NEM-eligible customer-generators are responsible for Public Purpose Program (PPP) charges based on the net energy delivered by the Utility.

SPECIAL CONDITIONS

1. Definitions: The definitions of terms used in this schedule are either found herein or in Rule 1, Rule 21, or the customer's OAS.
  - a. Otherwise Applicable Schedule ("OAS"): The NEM-eligible customer-generator's regularly filed rate schedule under which service is rendered.
  - b. Renewable Electrical Generation Facility: A facility that generates electricity from a renewable source listed in paragraph (1) of subdivision (a) of Section 25741 of the Public Resources Code. These sources are biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (only if facility will not cause an adverse impact on instream beneficial uses or cause a change in the volume or timing of streamflow), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and any additions or enhancements to the facility using that technology.

(Continued)



**SCHEDULE NEM**  
**NET ENERGY METERING**

SPECIAL CONDITIONS (Continued)

2. Metering Equipment: Multiple Tariff Facilities will be metered under one of the options in Special Condition 6. All other Net Energy Metering shall be accomplished using a single meter capable of registering the flow of electricity in two directions. If the eligible customer-generator's existing electrical meter is not capable of registering the flow of electricity in two directions, the eligible customer-generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to register electricity flow in two directions. An additional meter or meters, installed in a dual meter socket ("dual metering"), to monitor the flow of electricity in each direction, may be installed with the consent of the eligible customer-generator, at the expense of the Utility, and the dual metering shall be used only to provide the information necessary to accurately bill or credit the customer according to the Utility's OAS or to collect electric generating system(s) performance information for research purposes. The Utility shall determine whether dual metering is required under this provision. If dual metering is installed, the net energy metering calculation (see below) shall yield a result identical to that of a single meter capable of registering the flow of electricity in two directions. The Utility shall not require dual metering except where necessary for billing accuracy. If none of the normal metering options available at the Utility's disposal, which are necessary to render accurate billing, are acceptable to the eligible customer-generator, the Utility shall have the right to refuse interconnection.

3. Net Energy Metering and Billing: Facilities qualifying under multiple tariffs, see Special Condition 6. Eligible customer-generators qualifying for and electing NEM Aggregation, see Special Condition 8. Net energy is defined as measuring the difference between the electric energy supplied by the Utility through the electric grid to the eligible customer-generator and the electric energy generated by an eligible customer generator and fed back into the electric grid over a 12-month period (Relevant Period). At the end of each Relevant Period following the date the eligible customer-generator was first eligible for Schedule NEM, or the date of written authorization for Parallel Operation, whichever is later, and at each anniversary date thereafter, the eligible customer-generator shall be billed for net electric energy used during that period. If an eligible customer-generator terminates service under this rate schedule, or experiences a change in electric service provider prior to the end of any Relevant Period, the Utility shall reconcile the customer's consumption and production of electric energy and bill and provide compensation the customer as described below, as if it were the end of the normal Relevant Period.

In the event the monthly valued energy exported by the eligible customer-generator exceeds the monthly valued energy consumed by eligible customer-generator during the Relevant Period, based on the eligible customer-generator's OAS as set forth below, no payment shall be made for the excess energy delivered to the grid. If the Utility is the electric service provider, this condition may be modified where the customer has signed a contract to sell electric energy to the Utility.

In the event that the monthly valued energy supplied by the Utility during the Relevant Period exceeds the monthly valued energy exported by the eligible customer-generator during the Relevant Period, the eligible customer-generator is a net consumer and the Utility shall bill the eligible customer-generator for the net consumption during the Relevant Period based on the eligible customer-generator's OAS, as set forth below.

Except as provided for in Special Conditions 3(h) and 3(i), Pursuant to PU Code Section 2827(h)(3), once the true-up is completed at the end of the Relevant Period, any credit for excess energy (kWh) will be retained by the Utility and the net producer will not be owed any compensation for this excess energy. Production and consumption during the twelfth month is already considered in the true-up.

(Continued)



**SCHEDULE NEM**  
**NET ENERGY METERING**

SPECIAL CONDITIONS (Continued)

3. Net Energy Metering and Billing: (Continued)

The eligible customer-generator's OAS shall apply to the value of any net monthly consumption or production as follows:

- a) Baseline Rates: If the customer is a net consumer over a billing period, the net kWh consumed shall be billed at the applicable baseline rates up to the billing period's baseline allowance, with any excess kWh consumed billed at the applicable non-baseline rates charged other customers in the rate class.

If the customer is a net generator over a billing period, the net kWh generated shall be valued at the applicable baseline rates up to the billing period's baseline allowance, with any excess kWh generated valued at the applicable non-baseline rates charged other customers in the rate class.

- b) Time-of-Use: If the customer is a net generator during any discrete time-of-use (TOU) period, the net kWh produced shall be valued at the appropriate TOU rates charged other customers under the same OAS. If the customer is a net consumer during any discrete TOU period, the net kWh consumed shall be billed at the appropriate TOU rates charged other customers under the same OAS.

- c) Annual and Monthly Billing: If the Utility supplies the eligible customer-generator with electric energy, the Utility shall provide the eligible customer-generator with net energy consumption information with each regular bill. That information shall include the current monetary balance owed to the Utility for the net energy consumed since the last Relevant period ended. Eligible residential and small commercial customer-generators may pay monthly or annually for the net energy consumed. For all other commercial, industrial, and agricultural customers, the net balance of all moneys owed must be paid monthly. The net value of energy exported over a monthly billing cycle shall be carried over to the following billing period and appear as a credit on the eligible customer-generator's account, until the end of the Relevant Period.

For CCA, at the end of each relevant period, the Utility and CCA shall complete an annual true up of all 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 the Utility. Credits and charges related to services provided by the Utility shall be based on the Utility's rates. Any net balance related to generation charges that are collected from an eligible NEM CCA customer-generator will be paid annually by the Utility to the CCA as set forth in Rule 27, Section Q, which describes the payment and collection terms between the Utility and a CCA 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 Utility.

A customer receiving service on this rate schedule shall not be eligible for the Level Pay Plan option set forth in Rule 9.

- d) Cost Responsibility Surcharge (CRS): Pursuant to D.03-04-030, eligible customer-generators shall pay the DWR charges and CTC (collectively CRS) on the net energy delivered by the Utility, as set forth in Schedule CGDL-CRS.

(Continued)



**SCHEDULE NEM**  
**NET ENERGY METERING**

SPECIAL CONDITIONS (Continued)

3. Net Energy Metering and Billing: (Continued)

- e) ESP Charges: The charges for all energy components for eligible customer-generators shall be based exclusively on the eligible customer-generator's net energy consumption over a Relevant Period, without regard to the eligible customer-generator's choice of ESP. If the eligible customer-generator switches its ESP during a Relevant Period, the prior ESP shall reconcile the customer generator's consumption and export of electricity for the applicable part of the current Relevant Period and the new Relevant Period will begin with respect to service provided by the eligible customer-generator's new ESP. The Utility will recover the incremental metering and billing service costs associated with Net Energy Metering from the customer's ESP.
- f) CCA Charges: If the eligible customer-generator switches its commodity provider during the Relevant Period, the previous commodity provider shall reconcile the customer generator's consumption and a new relevant period will begin with respect to service provided by the eligible customer-generator's new commodity provider, if applicable.
- g) Commencement of Service: The Utility shall start a customer on Schedule NEM effective with the first meter read date prior to the later of (1) customer notice to the Utility of a request for service on Schedule NEM or (2) SDG&E's written authorization for parallel operation of the customer's eligible Generating Facility.
- h) Assembly Bill 920: Pursuant to Assembly Bill (AB) 920, starting January 1, 2011, a NEM customer with "net surplus electricity" (all electricity generated by an eligible customer measured in kilowatt-hours over a 12-month period that exceeds the amount of electricity consumed by that eligible customer), is eligible to receive net surplus compensation (NSC), valued pursuant to D.11-06-016. If a customer has not generated excess kWhs, the customer is not eligible for NSC.
- i) Compensation for net surplus energy: Per AB 920, SDG&E will compensate NEM customers with generation of less than 1 MW with excess kWhs at the end of their relevant period, for both the value of the electricity and the value of the renewable attributes. The Utility will compensate qualifying NEM customers for net surplus generation by the following formula:

$$\text{NSC} = \text{Value of Electricity} + \text{Value of Renewable Energy Credits (if applicable)}$$

(i) Value of the Electricity -

$$\text{Value of Electricity} = \text{Net surplus kWhs} \times \text{DLAP price}$$

The Utility will use SDG&E's Default Load Aggregation Point (DLAP) price as the basis for the net surplus compensation rate (adopted in D.11-06-016). DLAP reflects the costs the Utility avoids in procuring power during the time period net surplus generators produce excess power.

This rate is the simple rolling average of SDG&E's DLAP price from 7 a.m. to 5 p.m. corresponding to the customer's 12-month relevant period. The rolling average will be calculated on a monthly basis and be applied to all customers with a relevant period in the following month.

(Continued)



**SCHEDULE NEM**  
**NET ENERGY METERING**

SPECIAL CONDITIONS (Continued)

3. Net Energy Metering and Billing: (Continued)

i) Compensation for net surplus energy: (Continued)

(i) Value of the Electricity – (Continued)

The Utility uses a full 12 months of DLAP prices, as published on the CAISO Open Access Same-time Information System (OASIS), ending the twentieth (20<sup>th</sup>) day of each month. The Utility then calculates the net surplus compensation rate within five days of the first of the month to allow the CAISO to finalize the day-ahead DLAP prices. This rate is applied to all eligible net surplus generators, irrespective of their rate class. This rate will be updated monthly and is available at: <http://www.sdge.com/nem/>.

(ii) Value of Renewable Energy Credits –

The Utility will include a Renewable Attribute Adder (RAA) with the NSC rate after the California Energy Commission (CEC) determines the eligibility of net energy metering customer facilities for the Renewable Portfolio Standard and an ownership verification and tracking system for Renewable Energy Credits (RECs) created by net surplus generators.

The renewable attribute adder 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 renewable attribute adder will only be paid to those net surplus generators who provide RECs to the Utility. Until the CEC makes its determination and the Utility receives approval on a tariff revision addressing this, the RAA will not be included in the calculation of NSC (section (i) above).

D.11-06-016 requires NEM customers who elect to receive NSC to notify the Utility that they are a Qualifying Facility exempt from certification filing at the Federal Energy Regulatory Commission (FERC). Since all NEM customer-generators have certified to SDG&E that they are generating facilities with net power production capacities of 1 MW or less, and thus currently meet the requirements for a qualifying facility exempt from certification filing at FERC by being under 1 MW (under FERC Order 732), SDG&E requires no additional documentation at this time.

Eligible customers have the option to carry over net surplus compensation to future 12-month periods or can elect a monetary payment, if the amount is greater than one dollar (\$1). Payments for NSC should be reduced by any amount the customer owes to the Utility.

4. Interconnection: Prior to Parallel Operation, the eligible customer-generator must execute and comply with the applicable Utility Interconnection Agreement For Net Energy Metering Renewable electrical generating facility (Form 142-02760) or the Net Energy Metering Application and Interconnection Agreement for Customers with Solar and/or Wind Generating Facilities of 30 kW or Less (Form 142-02765) or for NEM / non-NEM Generating Facility Interconnection Agreement export, Form 117-2160. The eligible customer-generator shall meet all applicable safety and performance standards established by the National Electric Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the CPUC regarding safety and reliability.

(Continued)



**SCHEDULE NEM**  
**NET ENERGY METERING**

Sheet 8

SPECIAL CONDITIONS (Continued)

5. Customer-Generators Installed on or Before September 30, 2003: Pursuant to Section 2827.7 of the PU Code, eligible customer-generators who have all local and state permits required to commence construction of their generating facilities on or before December 31, 2002, and have completed construction on or before September 30, 2003, are entitled to the Net Energy Metering terms in effect on the date the local and state permits were acquired, for the life of the Generating Facility, regardless of any change in customer or ownership of the Generating Facility.

6. Multiple Tariff Facility:

Multiple Tariff Facilities have the following additional provisions:

- a) When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section J.3.
- b) An NEM-eligible Constituent Generator Group is defined as a constituent generator group that is eligible for service under the provisions of either schedule NEM or NEM-FC.
- c) A non-NEM-eligible Constituent Generator Group is defined as a constituent generator group that does not take service under the provisions of schedules NEM or NEM-FC, but interconnects under the provisions of Electric Rule 21.
- d) All metering for Multiple Tariff Facilities called for in this Special Condition must meet the requirements needed to bill under the customer-generator's OAS. All metering, equipment and nonexport relays necessary to implement the provisions in this section will be provided at the customer-generator's expense.
- e) Billing Credits:
  - 1) For customer-generators with one NEM-eligible Constituent Generator Group and one or more non-NEM-Eligible Generators without non-export relay, and energy (kWh) is exported to the grid at the PCC, the billing credit will be calculated for each billing period as follows:
    - a) NEM-eligible Export is the lesser of either all exported energy (kWh) as measured at the PCC or the NEM-eligible Constituent Generator Group's production as measured at the NGOM(s)
    - b) Multiply the NEM-eligible export determined in (a) above with the customer-generator's rate per OAS and applicable NEM schedule.
  - 2) For customer-generators with multiple NEM-eligible Constituent Generator Groups and with or without one or more non-Eligible Generator's without non-export relay, and energy (kWh) is exported to the grid at the PCC, the billing credit for each NEM-eligible Constituent Generator Group will be calculated for each billing period as follows:

(Continued)

8P5

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Resolution No. E-4610





**SCHEDULE NEM**  
**NET ENERGY METERING**

Sheet 9

SPECIAL CONDITIONS (Continued)

6. Multiple Tariff Facility: (Continued)

e) Billing Credits: (Continued)

2) (Continued)

- a) Sum all NEM-eligible Constituent Generator Groups' production (kWh) as measured at the NGOMs.
- b) Determine the proportion of energy production (kWh) attributable to each NEM-eligible Constituent Generator Group by dividing the NGOM reading of each by the sum from (a) above.
- c) NEM-eligible Export for each NEM-eligible Constituent Generator Group is the lesser of either its proportion of attributable energy production determined in (b) above multiplied by the total exported energy (kWh) as measured at the PCC or its energy production (kWh) measured at its NGOM.
- d) Multiply each NEM-eligible Constituent Generator Group's Export determined in (c) above by the customer-generator's rate per OAS and applicable NEM schedule.

If interval meters are used, this allocation of bill credit will be done on the aggregated intervals over a billing period. If the OAS is a time-of-use (TOU) rate schedule, the allocation will be performed for each aggregated TOU period separately.

A Generating Facility is not a Multiple Tariff Facility and the customer will be billed as provided in Special Condition 2 of this tariff.

3) Billing credit will be applied consistent with the appropriate NEM tariff as follows:

- a) First, apply Generation Rate Component credits from NEM-FC generators (if any) as appropriate, to the remainder of generation component charges on the account served by the Generating Facility (Host Account).
- b) Second, apply NEM Generating Facility credits to energy charges of the accounts served by the Generating Facility.

f) Multiple Tariff Facility Configurations and Metering.

- 1) For two or more of NEM-eligible Constituent Generator Groups and no non-NEM eligible Constituent Generator Groups, the customer-generator must install NGOM on each Constituent Generator Group. In addition, metering is required at the PCC.

(Continued)

9P4

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**SCHEDULE NEM**  
**NET ENERGY METERING**

Sheet 10

SPECIAL CONDITIONS (Continued)

6. Multiple Tariff Facility: (Continued)

f) Multiple Tariff Facility Configurations and Metering. (Continued)

2) For both NEM-eligible and non-NEM-eligible Constituent Generator Groups, the customer must select one of the following options:

a) Non Export Relay Option: A customer-generator must install a Non-Export relay on their non-NEM Constituent Generator Groups and install metering as follows: 1) If there is only one type of NEM-eligible Constituent Generator Group then metering at the PCC is all that is required and the terms of the appropriate NEM tariff for that group shall apply; 2) If there are two or more types of NEM-eligible Constituent Generator Groups, then metering at the PCC and NGOM metering of each NEM-eligible Constituent Generator Group is required.

b) NGOM Option: The customer-generator must install NGOM on each NEM-eligible Constituent Generator Group and metering at the PCC.

For any of the above configurations, if the customer-generator has a Constituent Generator Group eligible for Schedule NEM for Renewable electrical generating facility the customer-generator may elect to take service for such under either Schedule NEM or Schedule NEM-FC as appropriate to one of the other Constituent Generator Groups.

For the purpose of tariff administration, other metering configurations may be allowed at SDG&E's discretion.

7. 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 142-02760.5 Interconnection Agreement For Virtual Net Energy Metering for Multifamily Affordable Housing (VNM-A) Renewable Electric Generating Facility) shall complete and submit a copy of form 142-02763 – NEM/VNM-A Inspection Report to SDG&E, unless the electrical Generating Facility and meter have been installed or inspected within the previous three years. The NEM/VNM-A Inspection Report (Form 142-02763) shall be prepared by a California licensed contractor who is not the owner or operator of the facility and meter. A California licensed electrician shall perform the inspection of the electrical portion of the facility and meter and sign the NEM / VNM-A Inspection Report (Form 142-02763). If an inspection is required, the customer shall submit the fully completed NEM/VNM-A Inspection Report (Form 142-02763) to SDG&E within 90 days of the of the customer becoming the customer of record at this account, or else the customer agrees to disconnect their Generating Facility and inform SDG&E it no longer will take service under schedule NEM or VNM-A. By signing the Interconnection Agreement, the NEM/VNM-A Inspection Report (Form 142-02763) shall be incorporated into the Interconnection Agreement.

(Continued)

10P6  
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**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

8. NEM Aggregation

Pursuant to PU Code Section 2827(h)(4), an eligible customer-generator with multiple meters may elect to aggregate the electrical load of the meters located on the property where the renewable electrical generation facility is located and on all property adjacent or contiguous to the property on which the renewable electrical generation facility is located, provided that all properties are solely owned, leased, or rented by the eligible customer-generator. All of the following additional conditions will apply to an eligible customer-generator that elects to aggregate its electric load pursuant to this Special Condition (NEM Aggregation Customer):

a) Definitions:

1) NEM Aggregated Account(s): the eligible account(s), associated with the eligible meters, as identified by the customer and listed on the NEM Aggregation Form whose load will be aggregated for the purpose of applying NEM Aggregation.

b) The Utility will use the aggregated load for the purpose of determining whether an NEM Aggregation Customer is a net consumer or a net producer during the Relevant Period. At the end of the Relevant Period, NEM Aggregation returns the customer's net balance to zero, showing no net surplus electricity.

c) An eligible customer-generator electing service under this Special Condition is subject to the following:

1) NEM Aggregation Customers must continue to meet the definition of an eligible customer-generator found in PU Code Section 2827(b)(4), in order to additionally qualify for NEM Aggregation.

2) Eligible meters associated with NEM Aggregated Accounts must be located on the same premises and adjacent or contiguous property as the renewable electrical generating facility or facilities.

3) The premises must be solely owned, leased or rented by the NEM Aggregation Customer.

4) Premises that are divided by a street, highway, or public thoroughfare are considered contiguous for NEM Aggregation purposes, provided that parcels comprising the premises are otherwise contiguous and under the same ownership.

5) All meters associated with the NEM Aggregated Accounts must serve and bill under the name of the same customer of record.

6) A renewable electrical generation facility, or a combination of renewable electrical generation facilities, shall not exceed a total generating capacity of 1 MW.

(Continued)

11P8

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**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

8. NEM Aggregation (Continued)

- 1) NEM Aggregation Customers shall be permanently prohibited from receiving net surplus electricity compensation. The Utility will retain all kWh in excess of the Aggregated Accounts' load remaining after a true-up.
  - 2) NEM Aggregation Customers shall be responsible for remitting payment for service charges incurred by the Utility for the cost of providing NEM Aggregation billing services.
  - 3) The utility may request additional information from customers and conduct research to ensure compliance with all applicable statutes and tariffs, including but not limited to traditional NEM and NEM Aggregation requirements. If the Utility determines that an existing or prospective NEM Aggregation Customer is not in compliance with all applicable statutes and tariff provisions, including but not limited to traditional NEM and NEM Aggregation requirements, the Utility may refuse NEM Aggregation service.
- a) If an eligible customer-generator elects to receive NEM Aggregation service and satisfies the requirements in subparagraph c) and the applicable statutes and tariffs, the eligible customer-generator will be subject to the following interconnection process:
- 1) A NEM Aggregation Customer shall have an effective interconnection agreement with the Utility.
  - 2) As applicable, the NEM Aggregation Customer will indicate its election of NEM Aggregation on either Form 142-02765 (NEM Application and Interconnection Agreement for Electric Generating Facilities of 30 Kilowatts or Less) or Form 142-02766 (NEM Application and Interconnection Agreement for Electric Generating Facility Greater than 30 Kilowatts up to 1000 Kilowatts). In addition, the NEM Aggregation Customer will complete the NEM Aggregation Form (Form number 142-02769). The NEM Aggregation Form (1) requests a list of meters and accounts the NEM Aggregation Customer intends to include in the aggregation arrangement; (2) requires the NEM Aggregation Customer to select the preferred method for interconnecting to the electrical grid; and (3) includes a declaration the NEM Aggregation Customer must sign acknowledging and verifying the that the conditions set forth in section c) above have been met.
  - 3) The NEM Aggregation Customer must select which of the two methods offered for connecting to the Utility's grid is preferred: interconnecting via a billing account meter – Billing Account Method or a Net Generator Output Meter (NGOM) – NGOM Method.
    - a) Billing Account Method: This interconnection method follows the standard interconnection model applicable to non-NEM Aggregation Customers and non-multiple tariff customers receiving service under this rate schedule. No additional metering equipment is necessary for interconnecting under this method. Payment of all costs for any system upgrades required for aggregated arrangement shall be the responsibility of the NEM Aggregation Customer.

(Continued)

12P8

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**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

8. NEM Aggregation (Continued)

b) NGOM Method: Under this method, the NEM Aggregation Customer shall be responsible for paying a one-time, upfront, charge, adjusted to include the factors described in the Special Facilities section of Electric Rule 2 and calculated based on all costs associated with:

- a. connecting the renewable electrical generating facility directly to SDG&E's distribution system;
- b. installing a SDG&E-owned NGOM capable of recording generation in 15-minute increments;
- c. applicable disconnect/reconnect procedure charges requested by the customer, any wiring, trenching, conduit; and
- d. any other facility costs incurred by SDG&E to interconnect the NEM Aggregation Customer.

The location of the customer's equipment necessary for the installation of the NGOM shall be approved by the Utility, and will normally be grouped with the service and metering equipment for one or more existing SDG&E-owned meters. The Utility will measure the generation output from the renewable electrical generating facility and assign each Aggregated Account the appropriate credit based on the monthly usage of each Aggregated Account.

If there is any load behind the NGOM in addition to incidental load related to the operation of the NEM Aggregation Customer, the Utility may require, at the expense of the NEM Aggregation Customer, the purchase and installation of metering equipment necessary to determine the total generation and total usage at the interconnection point. Usage shall be billed as a usage account to ensure that all eligible generation output is allocated and that netting only occurs after credits have been allocated.

The current cost of an NGOM varies depending on the type of meter required and typically ranges from \$1,000 - \$5,000, updated as required. Other equipment that may be required for the installation of an NGOM (including, but not limited to, remote communications costs) shall be installed at the NEM Aggregation Customer's expense.

Sample costs by meter:

Meter Type	Estimated Cost
Self-contained Meter Installation (7200a)	\$ 998
Single-phase CT Installation	\$2,306
Three-phase CT Installation (<800a)	\$2,306
Three-phase CT Installation (1800a)	\$2,943

(Continued)

13P8

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**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

8. NEM Aggregation (Continued)

- 1) In the event there is a change of status that makes any of the meters or accounts listed in the NEM Aggregation form ineligible to take service under Special Condition 8, NEM Aggregation Customers shall notify the Utility within fifteen (15) days of such changes.
- 2) In the event a Rule 21 study is required, the processing of the request for interconnection may extend beyond the 30-working-days typically required under non-NEM Aggregation.
- 3) The eligible renewable electrical generation facility shall comply with all of the Utility's tariffs, including but not limited to Rule 21, and any other regulations and laws governing the interconnection of the eligible renewable electrical generating facility.

a) Billing Provisions:

- 1) A one-time service establishment fee of \$156 per meter will be assessed to NEM Aggregation Customers receiving service under this Special Condition.
- 2) If an NEM Aggregation Customer's aggregation arrangement includes more than one renewable electrical generating facility, or generating account, a one-time fee of \$216 for each meter in the aggregated arrangement will apply.
- 3) All NEM Aggregated Accounts in the arrangement must have the same Relevant Period.
- 4) Should a meter be added during a Relevant Period, the new meter will be charged the one-time service establishment fee and its Relevant Period will be adjusted so that it aligns with the Relevant Period of the existing NEM Aggregated Accounts.
- 5) Should an NEM Aggregated Account be removed during a Relevant Period, the aggregated arrangement will be adjusted.
- 6) All changes to the aggregation arrangement will become effective on the first regularly scheduled meter read date that is at least 15 days following the Utility's receipt of the request.
- 7) The Utility shall provide the NEM Aggregation Customer with individual Aggregated Account consumption and allocated generation information with each regular monthly bill. The information shall include the current monetary balance owed to the Utility for the net energy consumed in the current Relevant Period.
- 8) The Utility will initially set up a manual billing process for NEM Aggregation. If the Utility performs billing system upgrades to automate its NEM Aggregation billing process, costs associated with billing system modifications required for the development and implementation of Special Condition 8 will be recovered from participating customers through a fixed monthly charge. This fixed monthly charge will be determined at the time of implementation of the billing system modifications.

(Continued)

14P8

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**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

8. NEM Aggregation (Continued)

- 1) A mix of bundled and DA or CCA account types in a given aggregated arrangement is prohibited under this Special Condition.
- 2) Multiple Tariff Facilities involving eligible NEM Aggregation Customers is prohibited under this Special Condition.

a) Billing Process:

The following billing process shall be used.

- 1) Energy Delivered: If the Billing Account interconnection method is selected, the metered output, measured in kWh, will be determined by the amount of excess generation that is delivered to the grid. If the NGOM interconnection method is selected, the metered output, delivered to the grid, is recorded by the NGOM during the specific billing period.
- 2) Allocation of Credit: Energy (kWh) credits for aggregated customer-generators are allocated to each Aggregated Account based on the percentage of kWh usage compared to total consumption of the Aggregated Accounts during the billing period.
- 3) Customer Bill: Credits applied to Aggregated Accounts will be based on the number of kWh allocated multiplied by the appropriate billing components of the OAS billing on each specific Aggregated account, adjusted to conform to the conditions set forth above. At the end of each bill period, remaining credits shall be carried over to the following monthly billing period, until the end of the Relevant Period. NEM Aggregation Customers served under this schedule are responsible for all charges from their OAS including monthly billed minimum charges, customer charges, meter charges, facilities charges, energy and demand charges, excluding any adjustments due to power factor provisions. Applicable demand charges are defined in the specific account's OAS.
- 4) NEM Aggregation Billing: At the end of each Relevant Period, the NEM Aggregation Customer shall be billed for net electric energy used during that period. If an NEM Aggregation Customer terminates service under this rate schedule prior to the end of any Relevant Period, the Utility shall reconcile the customer's consumption of electric energy with any remaining credit, and bill to the customer as if it were the end of a normal Relevant Period.

a) For an OAS with Baseline Rates:

If the NEM Aggregation Customer is a net consumer for the month, the net kWh consumed shall be billed in accordance with the aggregated customer's accounts OAS. If the NEM Aggregation Customer is a net generator for the month, the net kWh generated shall be valued in accordance with the aggregated customer's accounts OAS. At the end of the relevant period, the Utility will retain any remaining generation kWh in excess of the NEM Aggregation Customer's Aggregated Account load during the Relevant Period.

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15P8

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Advice Ltr. No. 2529-E

**Lee Schavrien**

Effective

Decision No.

Senior Vice President

Resolution No. E-4610



**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

8. NEM Aggregation (Continued)

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

If the NEM Aggregation Customer is a net consumer during any discrete TOU period for the month, the net kWh consumed shall be billed at the applicable TOU rates charged in the OAS. If the NEM Aggregation Customer is a net generator during any discrete TOU period for the month, the net kWh generated shall be valued at the applicable TOU rates charged in the OAS. At the end of the relevant period, the Utility will retain any remaining generation kWh in excess of the NEM Aggregation Customer's Aggregated Account load during the Relevant Period.

g) In the event an NEM Aggregation Customer becomes eligible for payments resulting from participation in a demand response program, such payments to an NEM Aggregation Customer shall be based on the customer's metered usage, disregarding any contributions from NEM Aggregation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g. program eligibility) shall also exclude from consideration any impacts of NEM Aggregation.

16P7

Advice Ltr. No. 2529-E

Decision No. \_\_\_\_\_

Issued by  
**Lee Schavrien**  
Senior Vice President

Date Filed Oct 21, 2013

Effective \_\_\_\_\_

Resolution No. E-4610





San Diego Gas & Electric Company  
San Diego, California

Revised Cal. P.U.C. Sheet No. 23808-E

Canceling Revised Cal. P.U.C. Sheet No. 23272-E

**SAMPLE FORMS**

Sheet 1

FORM 142-02765

NET ENERGY METERING  
APPLICATION AND INTERCONNECTION AGREEMENT FOR CUSTOMERS WITH SOLAR  
AND/OR WIND ELECTRIC GENERATING FACILITIES OF 30 KILOWATTS OR LESS

(10/13)

(See Attached)

T

(Continued)

1P4

Advice Ltr. No. 2529-E

Decision No. \_\_\_\_\_

Issued by  
**Lee Schavrien**  
Senior Vice President

Date Filed Oct 21, 2013

Effective \_\_\_\_\_

Resolution No. E-4610



# Net Energy Metering

## *Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less*

**Please note** that this Application does not constitute an application for any **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact the California Center for Sustainable Energy at <http://www.energycenter.org> or by phone **1-858-244-1177**.

For more information on the New Solar Homes Partnership (NSHP) or the Emerging Renewable Program (ERP), please go to <http://sdge.com/clean-energy/going-solar/applying-solar-rebates> or [www.consumerenergycenter.org/erprebate](http://www.consumerenergycenter.org/erprebate), respectively, where you will find information about the programs, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the NSHP program, contact an account representative by e-mail at [newsolarhomes@sdge.com](mailto:newsolarhomes@sdge.com) or by phone at **1-866-631-1744**.

Application Identification (APP ID) Number \_\_\_\_\_ (for SDG&E's use only)

Please check the appropriate boxes below and continue with this application.

- I am also applying for a CSI rebate, and understand that I will have to apply for CSI rebates separately.
- I am also applying for a NSHP rebate, and understand that I will have to apply for the NSHP rebates separately.
- Not applying for any rebates.

Solar/wind system method of payment:

- Lease – Who is the third party owner? (\_\_\_\_\_)
- “or”
- Purchase (Please provide the installed cost? \$ \_\_\_\_\_)

### Part I – Identifying the Generating Facility's Location and Responsible Parties

#### A. Applicability and Purpose:

This *NET ENERGY METERING APPLICATION AND INTERCONNECTION AGREEMENT FOR CUSTOMERS WITH SOLAR AND/OR WIND ELECTRIC GENERATING FACILITIES OF 30 KW OR LESS* ("Agreement") applies to electric rate schedule NEM, Net Energy Metering Service (NEM) for Customer-Generators ("Customer") who interconnect a solar and/or wind turbine electrical Generating Facility, or a hybrid system of both, with an aggregate capacity of 30 kilowatts (kW) or less that is located on Customer's premises, and that operates in parallel with San Diego Gas and Electric Company's ("SDG&E") Distribution System.

The purpose of this Agreement is to allow the Customer to interconnect with SDG&E's Distribution System, subject to the provisions of this Agreement and SDG&E's rate schedule NEM. Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with SDG&E's Distribution System, primarily to offset part or all of the Customer's own electrical requirements at this service point. Customer shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

**B. Description of Service** (This Agreement is being filed for, check all that apply):

- ~~✓~~ New NEM Generating Facility interconnection (at an existing service)
- ~~✓~~ Physical Changes to an interconnected Generating Facility with previous approval by SDG&E (adding PV panels, changing inverters/turbines or changing load and/or operations).
- ~~✓~~ NEM Aggregation Generating Facility (if checked, please also complete Form 142-02769)
- ~~✓~~ New interconnection in conjunction with a new service
  - └ An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with SDG&E Electric Rules 15 and 16). Please contact SDG&E at 1-800-411-7343.
- ~~✓~~ Interconnection under Direct Access (DA)
  - └ Customers applying for NEM who are served under **Direct Access** by an Energy Service Provider (ESP) must contact their ESP directly for information regarding the ESP's Net Energy Metering program.
- ~~✓~~ Interconnection under Community Choice Aggregation Service (CCA Service)
  - └ Customers applying for NEM who are served under Community Choice Aggregation Service by a Community Choice Aggregator (CCA) must contact their CCA directly for information regarding the CCA's Net Energy Metering program.

**C. Customer Generating Facility Information** - Where will the Generating Facility be installed?

Name shown on SDG&E service account (Must match <b>Customer Name</b> on SDG&E bill)		Account Number	Meter Number
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Home Phone	Fax	<b>Mandatory E-mail</b>

**D. Contractor Information** (Must be completed even if Contractor will not serve as a SDG&E contact).

Contractor	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	<b>Mandatory E-mail</b>	
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <del>✓</del> This contractor is to be used as SDG&E contact and is authorized by Customer to receive confidential Customer information and act on behalf of Customer with respect to this agreement.			

By checking the box above and signing this agreement, Customer authorizes SDG&E to release information to the contact(s) named above regarding Customer's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. SDG&E is granted permission to share information with authorized recipients for a period of **three years** from the date this agreement is received by SDG&E. Contact(s) are also authorized to change rate schedules served under and metering arrangements which may result in charges to Customer. Should customer wish to select a different authorization period, Customer may utilize the "Authorization to Receive Customer Information or Act on a Customer's Behalf," which may be found at:

<http://www.sdge.com/clean-energy/apply-nem/apply-nem-resources>

In addition, Customer authorizes SDG&E to release to the California Energy Commission (CEC) information regarding Customer's facility, including customer name and Generating Facility location, size, and operational characteristics, as requested from time to time pursuant to the CEC's rules and regulations.

This agreement is applicable only to the Generating Facility described above and installed at the above location. The Generating Facility may not be relocated or connected to SDG&E's system at any other location without SDG&E's express written consent.

Customer shall be responsible for the design, installation, operation, and maintenance of the Generating Facility and shall obtain and maintain any required governmental authorizations and/or permits.

## Part II – Requirements for Interconnection

**IN SUBMITTING THIS DOCUMENT, I THE CUSTOMER, UNDERSTAND AND AGREE TO THE FOLLOWING TERMS AND CONDITIONS:**

### Permission to Interconnect

**Customers must not operate their Generating Facility in parallel with SDG&E's Distribution System until they receive written authorization for Parallel Operation from SDG&E.** Unauthorized Parallel Operation could result in injury to persons and/or damage to equipment and/or property for which the Customer may be liable.

### Safe Operation of your Generating Facility

Notwithstanding any other provision of this Agreement, if at any time SDG&E determines that either (a) the Customer's Facility, or its operation, may endanger SDG&E personnel, or (b) the continued operation of the Customer's Facility may endanger the safe and reliable operation of SDG&E's electrical system, SDG&E shall have the right to disconnect the Facility from SDG&E's system. Customer's Facility shall remain disconnected until such time as SDG&E is satisfied that the unsafe condition(s) have been corrected.

### Meter Access

Your meter must be installed in a safe SDG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter access must be maintained at all times for meter reading and system maintenance. Any animals owned by the customer, including pet dogs, should not have access to these areas to avoid hindering SDG&E service personnel, preventing them from completing their work. If your self contained meter is being utilized in lieu of an AC disconnect switch, the meter must be accessible at all times and cannot be located within a residence or garage.

### Document and Fee Requirements

Other Documents and/or Fees *may* be required and there may be requirements for interconnection in addition to the below list, depending on the specifics of the planned Generating Facility. Other approvals and/or other agreements may be needed for special SDG&E programs or regulatory agency requirements.

### Stale Agreements

If this agreement is still pending **two years from its date of submittal** and customer has not met all of the requirements, SDG&E will close this application and Customer will be required to submit a new application should Customer wish to take service on Schedule NEM.

### A. Agreement Package

These documents are needed to ensure safe and reliable operation of SDG&E's Distribution System and to confirm that Customer's interconnection has been performed in accordance with SDG&E's tariffs. **To insure prompt attention and authorization of your project and to avoid any delays, we would like to receive your complete packages two (2) weeks or more before city or county electrical inspection is released.** As SDG&E receives the documentation described in Sections (1) through (5) below, SDG&E will begin to process the application.

**Please complete this agreement in its entirety**

## Required Documents for New Applicants:

1. A completed copy of this **Agreement**. *Please note:* the Customer name (as identified in Part I, Section C) must be the same name as on the SDG&E bill. In this Agreement, Customer will confirm their otherwise-applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited. Customer-initiated rate changes are governed in accordance with SDG&E's Electric Rule 12.
2. A **single-line diagram** showing Customer's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all wind and/or photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Customer's loads relative to the Generating Facility, and the interconnection with SDG&E's Distribution System. The diagram must include the following information:

- a. A description and location of the visible, lockable **AC disconnect switch** if present.

**Effective January 01, 2010**, customers installing inverter-based systems will no longer be required to include an AC disconnect switch when the facility has a self-contained electric revenue meter (i.e., 0-320 amp socket-based meters or 400 amp K-based meters). This type of meter is used by the vast majority of all SDG&E customers.

To accommodate this change while maintaining utility operating safety needs, the revenue meter, when appropriate, may be temporarily removed by SDG&E to isolate the customer's inverter from the electric distribution system. Removal of the revenue meter (due to an emergency or maintenance on SDG&E's system) will result in loss of electrical service to the customer's facility or residence for the duration of time that work is actively in progress.

SDG&E *recommends* that customers installing an inverter-based generator consider also installing an AC disconnect switch to facilitate maintenance of the customer's equipment (i.e. inverter, PV arrays, etc) without the need for interrupting service to the customer. The AC disconnect switch provides the additional benefit of allowing SDG&E to isolate the customer's generator from the utility's Distribution System without having to interrupt service to the customer's facility or residence but for customers with 30 kW or smaller generating facilities, the switch is optional.

SDG&E's AC disconnect requirement for Distributed Energy Resources (Distributed Generation) will continue to apply to:

- Inverter-based interconnections having a transformer-rated meter (i.e., all meter panels or switchboards employing the use of potential and current transformers).
  - Non-inverter based generators, including rotating or machine-based generators – regardless if the service meter configuration is transformer-rated or self-contained.
- b. A description of the specific **inverter(s)** used to control the interconnection between SDG&E and the Generating Facility, including rating, brand name, and model number. CEC-certified inverters<sup>1</sup> will pass the requirements for Simplified Interconnection per SDG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
  - c. A complete description of the **generating equipment that the Customer plans to install**. If the Generating Facility includes photovoltaic panels, the description must include the manufacturer name, model number, number of panels, and the nameplate rating. If the Generating Facility includes a wind turbine, the description must include the manufacturer name, model number, number of turbines, and the nameplate rating. Only CEC-certified inverters and certified wind-turbine generators without separate inverters will pass the requirements for Simplified Interconnection. (See the SDG&E website <http://www.sdge.com/business/netMetering.shtml> or the CEC website at: [www.gosolarcalifornia.org/equipment](http://www.gosolarcalifornia.org/equipment)).
  - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.

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<sup>1</sup> The CEC's eligible inverter list can be found under the CSI heading at: [www.gosolarcalifornia.org/equipment](http://www.gosolarcalifornia.org/equipment)

- e. If such metering is required, a complete description of the **performance (generation output) meter and related equipment**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers). If instrument transformers are required, the description should include this information.
3. The final approval by the city or county electrical inspector is required before SDG&E can conduct their field inspection. The **Jurisdictional inspector must notify SDG&E's New Service Department directly**. The Net Energy Department cannot accept copies of an electrical permit.

**Part III – General Facility and Rate Information**

**A. Your current Electric Rate Schedule.**

Historical and current electrical rate information may be found at: <http://www.sdge.com/business/ratesTariffs.shtml>. Depending on Customer's rate schedule and metering arrangement, an installation fee and/or reprogramming fee may be required to provide net energy metering.

Customers will be billed monthly. Residential and small commercial customers may, at their option, pay amount for energy monthly or annually, with the understanding that any and all payments will be reconciled at the completion of the true-up period. Agricultural, medium and large commercial customers must pay their total bills monthly. At the end of every twelve (12) billing cycles, or other reconciliation period as provided in Schedule NEM, customer's charges will be totaled including: (1) any unpaid monthly non-energy charges, (2) the charge for any net-energy consumption as defined in rate Schedule NEM. Customer's total payments for the twelve (12) billing cycles or other reconciliation period as provided in Schedule NEM will then be subtracted from the total charges. Customer will then be billed for any balance due. In addition, SDG&E Electric Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM, and Customer's OAS may apply. For further information on understanding NEM billing, please go to the 'related docs' section of SDG&E's Net Energy Metering website at: <http://www.sdge.com/builderservices/serviceGuide.shtml>

**B. Will this account be established in a new subdivision?**

- ~~no~~ **If yes:** (a) who is the developer? \_\_\_\_\_  
 (b) tract number? \_\_\_\_\_  
 (c) name of the development? \_\_\_\_\_  
 (d) please attach a list of lots/addresses included with this application

~~no~~

**C. Will an electric vehicle recharging facility be included as part of the load at this location?**

- ~~no~~ **If yes,** will the vehicle recharging facility be separately metered from the residence?  
 ~~no~~ Solar and/or Wind generators will serve: residence or business (circle one)  
 ~~no~~ Solar and/or Wind generators will serve both residence and business

~~no~~

**D. Expected date SDG&E Receives Final Approval of Jurisdictional Electrical Inspector of Generating Facility?**

Date: \_\_\_\_\_

**E. Are there any other generators connected on this account?**

- ~~no~~ **If yes,** specify what kind of generator \_\_\_\_\_

~~no~~

**F. Are there any possible meter access issues?**

- ~~no~~ **If yes,** check all that apply:

<input checked="" type="checkbox"/> <del>no</del> Locked gate	<input checked="" type="checkbox"/> <del>no</del> Meter located inside of facility/residence
<input checked="" type="checkbox"/> <del>no</del> Restrained animal at meter or AC disconnect switch location	<input checked="" type="checkbox"/> <del>no</del> Other (Please explain) _____

~~no~~

G. Are you on a Demand Response program?

No

If yes, what program are you on? \_\_\_\_\_

Yes

(For more information on SDG&E's Demand Response programs see:  
<http://www.sdge.com/aboutus/longterm/longtermDemandResponse.shtml>)

**Part IV – Description of the Generating Facilities**

*Use additional sheets, if necessary.*

**A. AC Disconnect Switch** (see Part II, Section A.2.a above for policy on disconnect switches)

List the AC disconnect switch that will be used at this Generating Facility (Enter "N/A" if not applicable).

Disconnect Switch Manufacturer	Disconnect Switch Model Number	Disconnect Switch Rating (amps)

**B. Inverters interconnected with SDG&E**

List all the inverters that will be interconnected to SDG&E.

**Customers with non-standard inverters** which do not meet the UL and IEEE requirements specified in Electric Rule 21, or Customers whose aggregate Generating Facility capacity exceeds 15% of the peak load on the distribution line section as described in Electric Rule 21 (Section G.1.m.) require a **Supplemental Review** which may entail a study, additional equipment, and/or other requirements.

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating <sup>2</sup> kW (per unit)	Inverter CEC Rating kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1							
2							

**C.1. Photovoltaic Generator Equipment**

List the photovoltaic (PV) panel information requested below. If the panels are not all identical modules, list the total capacity connected to each inverter you listed above. (Please attach additional sheets if more space is needed).

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Nameplate Rating <sup>3</sup> kW (per unit)	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity <sup>4</sup> (kW)	Inverter number from (B) above (1 or 2)
1							
2							

**C. 2. PV Panel Installation (Please choose one):**  Pitched (i.e., roof pitched)  Flat (i.e., roof flat)  Tracking (i.e., 1- or 2-axis)

2 The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

3 The inverter rating equals the nameplate rating, in kW. If there are more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

4 The total capacity is the PV panel (or wind turbine) rating times the quantity.

5 For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

**Please complete this agreement in its entirety**

**D. Wind Turbine Equipment**

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Indicate NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating <sup>5</sup> kW (per unit)	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW)	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

**E. Service Panel Short Circuit Interrupting Rating:**

For systems larger than 10 kW, what is the short circuit interrupting rating (SCIR) rating of the service panel connected to this generating facility? \_\_\_\_\_

**F. Notices - Mailing Instructions and Assistance:**

If you prefer to mail the completed agreement, it may be mailed directly to our NEM department at:

SDG&E'S P.O. BOX ADDRESS	SDG&E'S STREET ADDRESS
San Diego Gas and Electric Company Attention: Net Metering Team Mail Code CP52F P.O. Box 129831 San Diego, California 92123	San Diego Gas and Electric Company Attention: Net Metering Team Mail Code CP52F 8316 Century Park Ct San Diego, California 92123

**Internet Agreement Forms:**

If this Agreement has been completed on SDG&E's website, with the attachments, it may be automatically submitted via that system. Copies or forms requiring a signature, attachments and any applicable fees described in Part II must be mailed to SDG&E at the address noted above, in Section IV (F), Notices.

**G. Indemnity and Liability.**

Each party as indemnitor shall defend, hold harmless, and indemnify the other party and the directors, officers, employees, and agents of the other party against and from any and all loss, liability, damages, claim, cost, charge, demand, or expense (including any direct, indirect or consequential loss, liability, damages, claim, cost charge, demand, or expense, including retained or in-house attorneys' fees) for injury or death to persons, including employees of either party, and damage to property, including property of either party, arising out of or in connection with (a) the engineering, design, construction, maintenance, repair, operation, supervision, inspection, testing, protection or ownership of the indemnitor's facility, or (b) the making of replacements, additions betterments to or reconstruction of the indemnitor's facilities. This indemnity shall apply notwithstanding the active or passive negligence of the indemnitee. However, neither party shall be indemnified hereunder for its loss, liability, damage, claim, cost, charge, damage, or expense resulting from its sole negligence or willful misconduct. The indemnitor shall, on the other party's request, defend any suit asserting a claim covered by this indemnity and shall pay for all costs, including reasonable attorney fees, which may be incurred by the other party in enforcing this indemnity.

**H. Governing Law**

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

**I. Term Of Agreement**

This Agreement shall become effective as of the date of SDG&E's issuance of the Permission to Operate Letter after receipt of all applicable fees, required documents, and this completed Agreement. This Agreement shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Customer takes service with SDG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM.



**J. Governing Authority**

This contract shall at all times be subject to such changes or modification by the Public Utilities Commission of the State of California as said Commission may, from time to time, direct in the exercise of its jurisdiction.

~~CUSTOMER HAS READ IN ITS ENTIRETY AND AGREES– CUSTOMER MUST CHECK BOX.~~

Customer understands and agrees that it must not operate their Generating Facility in parallel with SDG&E's Distribution System until Customer receives written authorization for Parallel Operation from SDG&E.

Customer Name (Please Print): \_\_\_\_\_

(Signature): \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

A copy of this signed agreement should be retained with the "Permission to Operate" letter to confirm Interconnection approval



San Diego Gas & Electric Company  
San Diego, California

Revised Cal. P.U.C. Sheet No. 23809-E

Canceling Original Cal. P.U.C. Sheet No. 23273-E

**SAMPLE FORMS**

Sheet 1

FORM 142-02766

NET ENERGY METERING  
APPLICATION FOR INTERCONNECTION FOR CUSTOMERS WITH SOLAR AND/OR WIND ONLY  
ELECTRIC GENERATING FACILITIES GREATER THAN 30 KILOWATTS UP TO 1000 KILOWATTS

(10/13)

(See Attached)

(Continued)

1P4

Advice Ltr. No. 2529-E

Decision No. \_\_\_\_\_

Issued by  
**Lee Schavrien**  
Senior Vice President

Date Filed Oct 21, 2013

Effective \_\_\_\_\_

Resolution No. E-4610



# Net Energy Metering

*Application for Interconnection for Customers with Solar and/or Wind ONLY  
Electric Generating Facilities:  
Greater than 30 Kilowatts up to 1000 Kilowatts*

**Please note** that this Application does not constitute an application for any **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact the California Center for Sustainable Energy at <http://www.energycenter.org> or by phone [1-858-244-1177](tel:1-858-244-1177).

For more information on the New Solar Homes Partnership (NSHP) or the Emerging Renewable Program (ERP), please go to <http://sdge.com/clean-energy/going-solar/applying-solar-rebates> or [www.consumerenergycenter.org/erprebate](http://www.consumerenergycenter.org/erprebate), respectively, where you will find information about the programs, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the NSHP program, contact an account representative by e-mail at [newsolarhomes@sdge.com](mailto:newsolarhomes@sdge.com) or by phone at [1-866-631-1744](tel:1-866-631-1744).

Application Identification (APP ID) Number \_\_\_\_\_ (for SDG&E's use only)

Please check the appropriate boxes below and continue with this application.

- I am also applying for a CSI rebate, and understand that I will have to apply for CSI rebates separately.
- I am also applying for a NSHP rebate, and understand that I will have to apply for the NSHP rebates separately.
- Not applying for any rebates

Solar/wind system method of payment:

- Lease – Who is the third party owner? (\_\_\_\_\_)
- “or”
- Purchase (Please provide the installed cost? \$ \_\_\_\_\_)

## Part I – Identifying the Generating Facility's Location and Responsible Parties

### A. Applicability and Purpose:

This *NET ENERGY METERING APPLICATION FOR INTERCONNECTION FOR CUSTOMERS WITH SOLAR AND/OR WIND ONLY ELECTRIC GENERATING FACILITIES GREATER THAN 30 KW UP TO 1000 KW* ("Application") applies to electric rate schedules NEM, NEM-V or VNM-A, Net Energy Metering Service (NEMS) for Customer-Generators ("Customer") who interconnect a solar and/or wind turbine electrical Generating Facility, or a hybrid system of both, with an aggregate capacity of greater than 30 kilowatts (kW) but 1000 kilowatts or less that is located on Customer's premises, and that operates in parallel with San Diego Gas and Electric Company's ("SDG&E") Distribution System.

The purpose of this Application is to begin the process for Customers wanting to interconnect with SDG&E's Distribution System, subject to the provisions of this Application, Interconnection Agreement for Net Energy Metering or Virtual Net Energy Metering ("Agreement") and SDG&E's rate schedule NEM, NEM-V or VNM-A. Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with SDG&E's Distribution System, primarily to offset part or all of the Customer's own electrical requirements at this service point. Customer shall comply at all times with the Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

**B. Description of Service** (This Application is being filed for, check all that apply):

- New NEM Generating Facility interconnection (at an existing service)
- Physical Changes to an interconnected Generating Facility with previous approval by SDG&E (adding PV panels, changing inverters/turbines or changing load and/or operations)
- NEM Aggregation Generating Facility (if checked, please complete Form 142-02769)
- New interconnection in conjunction with a new service
  - └ An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with SDG&E Electric Rules 15 and 16). Please contact SDG&E at 1-800-411-7343.
- An interconnection under Direct Access (DA)
  - └ Customers applying for NEMS who are served under **Direct Access** by an Energy Service Provider (ESP) must contact their ESP directly for information regarding the ESP's Net Energy Metering program.
- An interconnection under Community Choice Aggregation Service (CCA Service)
  - └ Customers applying for NEMS who are served under Community Choice Aggregation Service by a Community Choice Aggregator (CCA) must contact their CCA directly for information regarding the CCA's Net Energy Metering program.

**C. Customer Generating Facility Information - Where will the Generating Facility be installed?**

Name shown on SDG&E service account (Must match Customer Name on SDG&E bill)		Account Number	Meter Number
Street Address			
City	State		Zip
Mailing Address			
City	State		Zip
Business Phone	Home Phone	Fax	Mandatory E-mail

**D. Contractor Information** (Must be completed even if Contractor will not serve as an SDG&E contact).

Contractor		Company Name	
Mailing Address			
City	State		Zip
Business Phone	Fax		Mandatory E-mail
<input checked="" type="checkbox"/> This contractor is to be used as an SDG&E contact and is authorized by Customer to receive confidential Customer information and act on behalf of Customer with respect to this agreement.			

By checking the box in Section D. above, Customer authorizes SDG&E to release information to the contact(s) named above regarding Customer's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. SDG&E is granted permission to share

**Please complete this application in its entirety**

information with authorized recipients for a period of **three years** from the effective date of the Agreement. Should Customer wish to select a different authorization period, Customer may utilize the "Authorization to Receive Customer Information or Act on a Customer's Behalf," which may be found at:

<http://www.sdge.com/clean-energy/apply-nem/apply-nem-resources>

In addition, Customer authorizes SDG&E to release to the California Energy Commission (CEC) information regarding Customer's facility, including Customer name and Generating Facility location, size, and operational characteristics, as requested from time to time pursuant to the CEC's rules and regulations.

The Agreement is applicable only to the Generating Facility described above and installed at the above location. The Generating Facility may not be relocated or connected to SDG&E's system at any other location without SDG&E's express written consent.

Customer shall be responsible for the design, installation, operation, and maintenance of the Generating Facility and shall obtain and maintain any required governmental authorizations and/or permits.

## Part II – Requirements for Interconnection

### Permission to Interconnect

**Customers must not operate their Generating Facility in parallel with SDG&E's Distribution System until they receive written authorization for Parallel Operation from SDG&E.** Unauthorized Parallel Operation could result in injury to persons and/or damage to equipment and/or property for which the Customer may be liable.

### Safe Operation of your Generating Facility

Notwithstanding any other provision of the Agreement, if at any time SDG&E determines that either (a) the Customer's Generating Facility, or its operation, may endanger SDG&E personnel, or (b) the continued operation of the Customer's Generating Facility may endanger the safe and reliable operation of SDG&E's electrical system, SDG&E shall have the right to disconnect the Generating Facility from SDG&E's system. Customer's Generating Facility shall remain disconnected until such time as SDG&E is satisfied that the unsafe condition(s) have been corrected.

### Meter Access

Your SDG&E electric meter must be installed in a safe SDG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Customer, including pet dogs, should not have access to these areas to avoid hindering SDG&E service personnel, preventing them from completing their work.

### Document and Fee Requirements

Other Documents and/or Fees *may* be required and there may be requirements for interconnection in addition to those listed below, depending on the specifics of the planned Generating Facility. Other approvals and/or other agreements may be needed for special SDG&E programs or regulatory agency requirements.

### Stale Applications

If this **Application** is still pending **two years from its date of submittal** and Customer has not met all of the requirements, SDG&E will close this **Application** and Customer will be required to submit a new application should Customer wish to take service under Schedule NEM, NEM-V or VNM-A.

### A. Interconnection Package

Specific documents are needed to ensure safe and reliable operation of SDG&E's Distribution System and to confirm that Customer's interconnection has been performed in accordance with SDG&E's tariffs. **To ensure prompt attention and authorization of your project and to avoid any delays, we would need to receive your complete package two (2) weeks or more before city or county electrical inspection is released.** As SDG&E receives the documentation described in Sections (1) through (5) below, SDG&E will begin to process the application.

#### Required Documents for New Applicants:

1. Two (2) completed copies of the applicable **Agreement**. **For Schedule NEM:** The Customer must download and print two (2) copies of SDG&E form142-02760 (09/09) from the following link:

[http://sdge.com/sites/default/files/documents/nem-ELEC\\_ELEC-SF\\_142-02760.pdf](http://sdge.com/sites/default/files/documents/nem-ELEC_ELEC-SF_142-02760.pdf)

**For Schedule NEM-V or VNM-A:** The Customer must download and print two (2) copies of SDG&E form142-02760.5 (06/12) from the following link: [http://regarchive.sdge.com/tm2/pdf/ELEC\\_ELEC-SF\\_142-02760\\_5.pdf](http://regarchive.sdge.com/tm2/pdf/ELEC_ELEC-SF_142-02760_5.pdf)

**Please complete this application in its entirety**

The Customer shall fill out both applicable forms completely, **sign** and **mail both copies** including any attachments to SDG&E at the address noted in Part IV (F), "Notices" herein.

**Please note:** the Customer name (as identified in Part I, Section C) **must be the same name** as on the SDG&E bill. In the Agreement, Customer will confirm their otherwise-applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited. Customer-initiated rate changes are governed in accordance with SDG&E's Electric Rule 12.

2. A **single-line diagram** showing Customer's actual installation of his/her Generating Facility (required in Appendix A of the Agreement). The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all wind and/or photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Customer's loads relative to the Generating Facility, and the interconnection with SDG&E's Distribution System. The diagram must include the following information:

a. A description and location of the visible, lockable **AC disconnect switch**.

SDG&E *requires* that a Customer installing an inverter-based generator install an AC disconnect switch to facilitate maintenance of the Customer's equipment (i.e. inverter, PV arrays, etc) without the need for interrupting electric service to the Customer. The AC disconnect switch allows SDG&E to isolate the Customer's Generating Facility from SDG&E's Distribution System without having to interrupt electric service to the Customer's business or residence.

SDG&E's AC disconnect requirement for Distributed Energy Resources (Distributed Generation) will continue to apply to:

- Inverter-based interconnections having a transformer-rated meter (i.e., all meter panels or switchboards employing the use of potential and current transformers).
- Non-inverter based generators, including rotating or machine-based generators – regardless if the service meter configuration is transformer-rated or self-contained.

b. A description of the specific **inverter(s)** used to control the interconnection between SDG&E and the Generating Facility, including rating, brand name, and model number. CEC-certified inverters<sup>1</sup> will pass the requirements for Simplified Interconnection/Initial Review pursuant to SDG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.

c. A complete description of the **generating equipment that the Customer plans to install**. If the Generating Facility includes photovoltaic panels, the description must include the manufacturer name, model number, number of panels, and the nameplate rating. If the Generating Facility includes a wind turbine, the description must include the manufacturer name, model number, number of turbines, and the nameplate rating. Only CEC-certified inverters and certified wind-turbine generators without separate inverters will pass the requirements for Simplified Interconnection/Initial Review. (See the SDG&E website <http://www.sdge.com/business/netMetering.shtml> or the CEC website at: [www.gosolarcalifornia.org/equipment](http://www.gosolarcalifornia.org/equipment)

d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.

e. If such metering is required, a complete description of the **performance (generation output) meter and related equipment must be provided**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers). If instrument transformers are required, the description should include this information. For further information please go to SDG&E's Electric Service Standards & Guide Manual website at: <http://www.sdge.com/builderservices/serviceGuide.shtml>

3. The final approval by the city or county electrical inspector is required before SDG&E can conduct their field inspection. The **Jurisdictional inspector must notify SDG&E's New Service Department directly**. The Net Metering Team cannot accept copies of an electrical permit.

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<sup>1</sup> The CEC's eligible inverter list can be found under the CSI heading at: [www.gosolarcalifornia.org/equipment](http://www.gosolarcalifornia.org/equipment)

**Part III – General Facility and Rate Information**

**A. What is your current Electric Rate Schedule?**

**RESIDENTIAL:**

- ~~RT~~ – Non-Time-of-Use Residential Service
- ~~RT~~ TOU – Residential Time-of-Use Service
- ~~RT~~ SES – Residential Time-of-Use Service (Solar Energy Systems)
- ~~RT~~ LI – Care Electric Domestic Service
- ~~RT~~ – Multi Family Service
- ~~RT~~ Other Residential rate schedule ( \_\_\_\_\_ ) please enter

**SMALL COMMERCIAL:**

- ~~RT~~ Small General Non-Time-of-Use Service
- ~~RT~~ TOU – Large General Time-of-Use Service (≥20 Kw)

**AGRICULTURAL:**

- ~~RT~~ General Agricultural Power
- ~~RT~~ 1 – Agricultural Power - Optional Time of Use
- ~~RT~~ Other ( \_\_\_\_\_ )

Historical and current electrical rate information may be found at:

<http://sdge.com/rates-regulations/current-and-effective-tariffs/current-and-effective-tariffs>. Depending on Customer's rate schedule and metering arrangement, an installation fee and/or reprogramming fee may be required to provide net energy metering.

Customers will be billed monthly. Only residential and small commercial customers may, at their option, pay their total bills either monthly or annually, with the understanding that any and all payments will be reconciled at the completion of the true-up period. Agricultural, medium and large commercial customers must pay their total bills monthly. At the end of every twelve (12) billing cycles, or other reconciliation period as provided in Schedule NEM, NEM-V or VNM-A Customer's charges will be totaled including: (1) any unpaid monthly non-energy charges, (2) the charge for any net-energy consumption as defined in rate Schedule NEM NEM-V or VNM-A. Customer's total payments for the twelve (12) billing cycles or other reconciliation period as provided in Schedule NEM, NEM-V or VNM-A will then be subtracted from the total charges. Customer will then be billed for any balance due. In addition, SDG&E Electric Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM, NEM-V or VNM-A and Customer's OAS may apply.

For further information on understanding NEM billing, please view the video entitled "Net Energy Metering (NEM) Billing" located at SDG&E's Net Energy Metering website at: <http://sdge.com/clean-energy/overview/overview>

**B. Will this account be established in a new subdivision?**

- ~~RT~~ If yes: (a) who is the developer? \_\_\_\_\_  
(b) tract number? \_\_\_\_\_  
(c) name of the development? \_\_\_\_\_  
(d) please attach a list of lots/addresses included with this application

~~RT~~

**C. Will an electric vehicle recharging facility be included as part of the load at this location?**

- ~~RT~~  
If yes, will the vehicle recharging facility be separately metered from the residence?  
 ~~RT~~ Solar and/or Wind generators will serve: residence or business (circle one)  
 ~~RT~~ Solar and/or Wind generators will serve both residence and business

~~RT~~

**D. Expected date SDG&E Receives Final Approval of Jurisdictional Electrical Inspector of Generating Facility?**

Date: \_\_\_\_\_

E. Are there any other generators connected on this account?

No

If yes, specify what kind of generator \_\_\_\_\_

No

F. Are there any possible meter access issues?

No

If yes, check all that apply:

<input checked="" type="checkbox"/> Locked gate	<input checked="" type="checkbox"/> Meter located inside of facility/residence
<input checked="" type="checkbox"/> Unrestrained animal at meter or AC disconnect switch location	<input checked="" type="checkbox"/> Other (Please explain) _____

No

G. Are you on a Demand Response program?

No

If yes, what program are you on? \_\_\_\_\_

No

(For more information on SDG&E's Demand Response programs see:  
<http://www.sdge.com/aboutus/longterm/longtermDemandResponse.shtml>)

**Part IV – Description of the Generating Facilities** *Use additional sheets, if necessary.*

**A. AC Disconnect Switch**

List the AC disconnect switch that will be used at this Generating Facility.

Disconnect Switch Manufacturer	Disconnect Switch Model Number	Disconnect Switch Rating (amps)

**B. Inverters interconnected with SDG&E**

List all the inverters that will be interconnected to SDG&E.

**Customers with non-Certified inverters** which are not listed on the CEC website referenced on Part II Section A.2.c. above, or Customers whose aggregate Generating Facility capacity exceeds 15% of the peak load on the distribution line section as described in Electric Rule 21 require a **Supplemental Review** which may entail a study, additional equipment, fees and/or other requirements.

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating <sup>2</sup> kW (per unit)	Inverter CEC Rating kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1							
2							

<sup>2</sup> The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.



**C. Photovoltaic Generator Equipment**

List the photovoltaic (PV) panel information requested below. If the panels are not all identical modules, list the total capacity connected to each inverter you listed above. (Please attach additional sheets if more space is needed).

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Nameplate Rating <sup>3</sup> kW (per unit)	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity <sup>4</sup> (kW)	Inverter number from (B) above (1 or 2)
1							
2							

**D. Wind Turbine Equipment**

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Indicate NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating <sup>5</sup> kW (per unit)	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW)	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

**E. Service Panel Short Circuit Interrupting Rating:**

What is the short circuit interrupting rating (SCIR) rating of the service panel connected to this generating facility?

\_\_\_\_\_

**F. Notices - Mailing Instructions and Assistance:**

If you prefer to mail the completed agreement, it may be mailed directly to our NEM department at:

SDG&E'S P.O. BOX ADDRESS	SDG&E'S STREET ADDRESS
San Diego Gas and Electric Company Attention: Net Metering Team Mail Code CP52F P.O. Box 129831 San Diego, California 92123	San Diego Gas and Electric Company Attention: Net Metering Team Mail Code CP52F 8316 Century Park Ct San Diego, California 92123

**Internet Application Forms:**

If this Application has been completed on SDG&E's website, with the attachments, it may be automatically submitted via that system. Copies or forms requiring a signature, attachments and any applicable fees described in Part II must be mailed to SDG&E at the address noted above, in Part IV (F), Notices.

3 The inverter rating equals the nameplate rating, in kW. If there are more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

4 The total capacity is the PV panel (or wind turbine) rating times the quantity.

5 For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

**Please complete this application in its entirety**

Customer understands and agrees that it must not operate their Generating Facility in parallel with SDG&E's Distribution System until Customer receives written authorization for Parallel Operation from SDG&E.

✕ ✕ ~~2/6~~ CUSTOMER HAS READ IN ITS ENTIRETY AND AGREES– CUSTOMER MUST CHECK BOX.

✕ ✕ ~~2/6~~ CUSTOMER UNDERSTANDS THAT TO COMPLETE THE INTERCONNECTION APPLICATION PROCESS THEY MUST download and print two (2) copies of “either”

1) SDG&E **Schedule NEM** Interconnection Agreement form142-02760 (09/09) from the following link:  
[http://sdge.com/sites/default/files/documents/nem-ELEC\\_ELEC-SF\\_142-02760.pdf](http://sdge.com/sites/default/files/documents/nem-ELEC_ELEC-SF_142-02760.pdf)

“or”

2) SDG&E **Schedule NEM-V or VNM-A** Interconnection Agreement form142-02760.5 (06/12) from the following link:  
[http://regarchive.sdge.com/tm2/pdf/ELEC\\_ELEC-SF\\_142-02760\\_5.pdf](http://regarchive.sdge.com/tm2/pdf/ELEC_ELEC-SF_142-02760_5.pdf)

The Customer shall fill out both applicable forms completely, sign and mail both copies including any attachments to SDG&E at the address noted in Part IV (F), “Notices” herein.



San Diego Gas & Electric Company  
San Diego, California

Original Cal. P.U.C. Sheet No. 23810-E

Canceling \_\_\_\_\_ Cal. P.U.C. Sheet No. \_\_\_\_\_

**SAMPLE FORMS**  
FORM 142-02769

Sheet 1

N  
N

Net Energy Metering (NEM) Aggregation Form  
(10/13)

N  
N

See Attached Form

N

1P5

Advice Ltr. No. 2529-E

Decision No. \_\_\_\_\_

Issued by  
**Lee Schavrien**  
Senior Vice President

Date Filed Oct 21, 2013

Effective \_\_\_\_\_

Resolution No. E-4610



## NET ENERGY METERING (NEM) AGGREGATION FORM

List of Meters and Accounts Eligible for NEM Aggregation under  
Special Condition 8 of Schedule NEM

Selection of Method of Interconnection under Special Condition 8  
of Schedule NEM

NEM Aggregation Declaration of Eligible Customer-Generator  
with Multiple Meters

**NET ENERGY METERING (NEM) AGGREGATION FORM  
OF SAN DIEGO GAS & ELECTRIC COMPANY**

This form should be completed as applicable by an eligible customer-generator electing to take service under Schedule NEM Special Condition 8: NEM Aggregation. In addition to the completion of this form, an eligible customer-generator must indicate its NEM Aggregation election in Part 1 Section B of Forms 142-02765 or 142-02766, as applicable. As governed by Schedule NEM Special Condition 8, SDG&E will aggregate the load of the customer-generator's meters listed below where the customer-generator is the customer of record and the accounts are (i) located on the same premises where the renewable electrical generation facility is located, or (ii) on property adjacent or contiguous to that premises as long as those premises are solely owned, leased, or rented by the customer-generator. Premises that are divided by a street, highway, or public thoroughfare are considered contiguous for NEM Aggregation purposes, provided that parcels comprising the premises are otherwise contiguous and under the same ownership as described in (ii) above.

In accordance with this form:

(i) Pursuant to Schedule NEM Special Condition 8, the electricity generated by the renewable electrical generation facility and exported to the grid shall be allocated to each of the aggregated meters in proportion to the electrical load served by those meters, and

(ii) In accordance with Section c.8 of Schedule NEM Special Condition 8, the customer-generator shall remit payment for service charges incurred by SDG&E for the cost of providing NEM Aggregation billing services, and

(iii) The customer-generator shall permanently be ineligible to receive net surplus electricity compensation and, therefore, SDG&E shall retain any kilowatthours in excess of the eligible customer-generator's electrical load as determined for each aggregated meter individually.

# NET ENERGY METERING (NEM) AGGREGATION FORM

## List of Meters and Accounts Eligible for NEM Aggregation under Special Condition 8 of Schedule NEM

**Being phase** list all the meters and accounts to be included in the aggregated

Generator Account(s)	Customer-Generator Meter	Account Service Address as listed on your Billing Statement (Street, City, Zip Code – no P.O. Boxes)	Estimated Annual kWh Production <sup>1</sup>

<sup>1</sup>Formulas for Solar, Wind, and Other Technologies:

**Solar**

CEC-AC<sup>2</sup> rating X 1,664<sup>3</sup> = \_\_\_\_\_

**Wind**

Total Inverter Nameplate Rating X 2,190<sup>4</sup> = \_\_\_\_\_

**Other Technologies**

Total Inverter Nameplate Rating X 7,008<sup>5</sup> = \_\_\_\_\_

<sup>2</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1,000

<sup>3</sup> Estimated Solar Production = 8,760 hrs/yr X 0.19 solar capacity factor = 1,664

<sup>4</sup> Estimated Wind Production = 8,760 hrs/yr X 0.25 wind capacity factor = 2,190

<sup>5</sup> Estimated Other Technologies = 8,760 hrs/yr X 0.80 other technologies capacity factor = 7,008

## NET ENERGY METERING (NEM) AGGREGATION FORM

Aggregated Accounts	Aggregated Meters	Aggregated Account Service Address as listed on your Billing Statement (Street, City, Zip Code - no P.O. boxes)	Annual kWh Load <sup>7</sup>
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
Total Annual kWh			
120% of Total Annual kWh			

(Use more sheets as necessary.)

Signature of Customer-Generator \_\_\_\_\_ Date: \_\_\_\_\_

<sup>6</sup> If this is a new account, enter *NEW*.

<sup>7</sup> For previous twelve months from date of signature. Please also enter the annual kWh for generator account prior to the generator being installed; if none, enter zero.

## NET ENERGY METERING (NEM) AGGREGATION FORM

### Selection of Method of Interconnection under Special Condition 8 of Schedule NEM

Please select the customer-generator's method for interconnecting its renewable electrical generation facility or facilities to the electrical grid. For a detailed description of the interconnection methods, please refer to Special Condition 8, Section d of SDG&E's Schedule NEM.

Check one of the following. If multiple generator meters are contained in the arrangement, check any that apply:

- Billing Account Method
- Net Generator Output Meter (NGOM) Method

## NET ENERGY METERING (NEM) AGGREGATION FORM

### NEM Aggregation Declaration

I, \_\_\_\_\_, state as follows:

1. I am an authorized representative of \_\_\_\_\_ ("Customer") and I am authorized to make this declaration.
2. I have personal knowledge of the matters set forth herein and if called upon as a witness could and would testify competently thereto.
3. Customer is applying for NEM Aggregation service with San Diego Gas & Electric Company ("SDG&E").
4. Customer hereby states that
  - a. Customer is an "eligible customer-generator" with multiple meters. "Eligible customer-generator" means
    1. a customer who uses a renewable electrical generation facility, or a combination of those facilities,
    2. with a total capacity of not more than one megawatt,
    3. that is located on the customer's owned, leased, or rented premises,
    4. and is interconnected and operates in parallel with the electrical grid,
    5. and is intended primarily to offset part or all of the customer's own electrical requirements. [California Public Utilities Code Section 2827(b)(4)]



\_\_\_\_\_ *Initial*

- b. Customer elects to aggregate the electrical load of the meters identified herein.
- c. Customer declares and represents that all of the meters identified herein are
  - 1. located on the premises where the renewable electrical generation facility is located [\_\_\_\_\_ *Initial*], and
  - 2. located on property adjacent or contiguous to the property on which the renewable electrical generation facility is located. [\_\_\_\_\_ *Initial*] Parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are otherwise contiguous and under the same ownership.
- d. Customer declares and represents that all of the properties referenced herein are solely owned, leased, or rented by Customer.

\_\_\_\_\_ *Initial*

## NET ENERGY METERING (NEM) AGGREGATION FORM

### NEM Aggregation Declaration (continued)

- 5. Customer understands that an eligible customer-generator may only elect to aggregate the electrical load of multiple meters if the renewable electrical generation facility or combination of those facilities has a total generating capacity of not more than one megawatt. Customer declares and represents that the total generating capacity of the facility or combination of facilities referenced herein do not exceed one megawatt.  
\_\_\_\_\_ *Initial*
- 6. Customer understands that electing NEM Aggregation services renders Customer permanently ineligible to receive NEM net surplus electricity compensation.
- 7. Customer shall be responsible for paying all service charges rendered by SDG&E for the costs of providing billing services under NEM Aggregation.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this \_\_\_\_ day of \_\_\_\_\_,  
\_\_\_\_\_ at \_\_\_\_\_,  
\_\_\_\_\_ [city, state].

[Signature]

---

Authorized Representative of Customer

\_\_\_\_\_ [Date]

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**This document may be submitted by email or fax provided the originals are delivered to SDG&E within ten (10) business days thereafter.**



TABLE OF CONTENTS

Sheet 1

The following sheets contain all the effective rates and rules affecting rates, service and information relating thereto, in effect on the date indicated herein.

	<u>Cal. P.U.C. Sheet No</u>	
TITLE PAGE.....	16015-E	
TABLE OF CONTENTS.....	23811, 23430, 23774, 23762, 23812, 23694, 23764-E 23244, 23510, 23813, 23485, 23247, 19529-E	T T
<b>PRELIMINARY STATEMENT:</b>		
I. General Information.....	8274, 18225, 22140-E	
<b>II. Balancing Accounts</b>		
Description/Listing of Accounts	19402, 20706-E	
California Alternate Rates for Energy (CARE) Balancing Account.....	21639, 21640-E	
Rewards and Penalties Balancing Account (RPBA).....	21643, 22802-E	
Transition Cost Balancing Account (TCBA).....	22803, 19411, 22804, 22805, 19414-E	
Post-1997 Electric Energy Efficiency Balancing Account (PEEEBA).....	19415, 19416-E	
Research, Development and Demonstration (RD&D) Balancing Account.....	19417, 19418-E	
Renewables Balancing Account (RBA).....	19419, 19420-E	
Tree Trimming Balancing Account (TTBA).....	19421, 19422-E	
Baseline Balancing Account (BBA).....	21377, 19424-E	
EI Paso Turned-Back Capacity Balancing Account (EPTCBA).....	19425-E	
Energy Resource Recovery Account (ERRA).....	23421, 23422, 23423, 23454, 23455-E	
Low-Income Energy Efficiency Balancing Account (LIEEBA).....	19431, 19432-E	
Non-Fuel Generation Balancing Account (NGBA).....	23765, 23766, 23767, 23768-E	
Electric Procurement Energy Efficiency Balancing Account (EPEEBA).....	19438-E	
Common Area Balancing Account (CABA).....	19439-E	
Nuclear Decommissioning Adjustment Mechanism (NDAM).....	22811-E	
Pension Balancing Account (PBA).....	19441, 19442-E	
Post-Retirement Benefits Other Than Pensions Balancing Account (PBOPBA).....	19443, 19444-E	
Community Choice Aggregation Implementation Balancing Account (CCAIBA).....	19445-E	

(Continued)

1P4

Advice Ltr. No. 2529-E

Decision No. \_\_\_\_\_

Issued by  
**Lee Schavrien**  
Senior Vice President

Date Filed Oct 21, 2013

Effective \_\_\_\_\_

Resolution No. E-4610



**TABLE OF CONTENTS**

Sheet 5

<u>SCHEDULE NO.</u>	<u>SERVICE</u>	<u>CAL. P.U.C. SHEET NO.</u>
	<u>Lighting Rates</u>	
LS-1	Lighting - Street and Highway – Utility-Owned Installations .....	23734, 23735, 23736, 12626, 12627, 12628-E 21439-E
LS-2	Lighting - Street and Highway – Customer-Owned Installations .....	23737, 23738, 23739, 23740, 23741, 22362-E 22363, 22364-E
LS-3	Lighting - Street and Highway - Customer-Owned Installations .....	23742, 14943, 21441-E
OL-1	Outdoor Area Lighting Service .....	23743, 20280, 21442-E
OL-2	Outdoor Area Lighting Service Metered – Customer-Owned Installation .....	23744, 21444, 21445-E
DWL	Residential Walkway Lighting.....	23745, 21450-E
	<u>Miscellaneous</u>	
PA	Power – Agricultural .....	23746, 20539, 21451-E
PA-T-1	Power – Agricultural – Optional Time-of-Use.....	23747, 23748, 20542, 20543, 21385, 21452-E
S	Standby Service .....	23749, 18256, 21453-E
S-I	Standby Service – Interruptible .....	17678, 6085, 6317-E
SE	Service Establishment Charge .....	18651, 11594-E
DA	Transportation of Electric Power for Direct Access Customers .....	17679, 14953, 14954, 21894, 15111, 16976-E 21454, 21895-E
NDA	UDC Meter Services for Non-Direct Access Customers .....	17892, 11850, 11851, 21455, 16427-E
E-Depart	Departing Load Nonbypassable ND & PPP Charges .....	18385-E, 18386-E
BIP	Base Interruptible Program .....	22951, 22952, 23042, 22954, 22955-E
OBMC	Optional Binding Mandatory Curtailment Plan.....	14625, 15198, 14627, 21948, 21949 21950-E 21951-E
SLRP	Scheduled Load Reduction Program .....	14584, 22957, 22958, 14587, 18367-E
RBRP	Rolling Blackout Reduction Program.....	18259, 18260, 20546, 18262-E
DBP	Demand Bidding Program .....	23477, 23478, 23479, 23480-E
NEM	Net Energy Metering .....	23792, 23793, 23794, 23795, 23796, 23797-E 23798, 23799, 23800, 23801, 23802, 23803-E 23804, 23805, 23806, 23807-E
NEM-FC	Net Energy Metering for Fuel Cell Customer Generators.....	23436, 23437, 23438, 23439, 23440, 23441-E 23442, 23442-E
E-PUC	Surcharge to Fund Public Utilities Commission Reimbursement Fee .....	15214-E
DWR-BC	Department of Water Resources Bond Charge.....	23323-E
DA-CRS	Direct Access Cost Responsibility Surcharge.....	23089, 22456, 21814, 21815-E
CGDL-CRS	Customer Generation Departing Load Cost Responsibility Surcharge.....	19581, 19582, 18583, 18584, 18391-E
CCA	Transportation of Electric Power, For Community Choice Aggregation Customers.....	17894, 17895, 17896, 17897-E
CCA-CRS	Community Choice Aggregation Cost Responsibility Surcharge.....	23090, 21817-E
CCA-INFO	Information Release to Community Choice Providers.....	22783, 17858, 22784, 17860-E
CBP	Capacity Bidding Program .....	22959, 21178, 23029, 22960, 23460, 22962-E 22963, 21180, 21181, 22964, 22965, 19657-E
UM	Unmetered Electric Service .....	23750, 19337, 19338-E

T  
T  
N

(Continued)



**TABLE OF CONTENTS**

Sheet 10

SAMPLE FORMS

Form No.	Date	Applications, Agreements & Contracts	Cal. P.U.C. Sheet No.
142-732/16	05-13	Residential Rate Assistance Application (Korean).....	23501-E
142-732/17	05-13	Residential Rate Assistance Application (Russian).....	23502-E
142-732/18	05-13	Residential Rate Assistance Application (Tagalog).....	23503-E
142-732/19	05-13	Residential Rate Assistance Application (Thai).....	23504-E
142-740	05-13	Residential Rate Assistance Application (Easy/App)	23505-E
142-959	06-96	Standard Form Contract for Service New Job Incentive Rate Service.....	9129-E
142-1059	06-96	Standard Form Contract for Service New Job Connection Credit.....	9130-E
142-1359	05-95	Request for Contract Minimum Demand.....	8716-E
142-1459	05-95	Agreement for Contact Closure Service.....	8717-E
142-1659	05-95	Standard Form Contract - Credits for Reductions in Overhead to Underground Conversion Funding Levels.....	8719-E
142-01959	01-01	Consent Agreement.....	14172-E
142-02559	01-98	Contract to Permit Billing of Customer on Schedule AV-1 Prior to Installation of all Metering and Equipment Required to Provide a Contract Closure in Compliance With Special Condition 12 of Schedule AV-1.....	11023-E
142-02760	12-12	Interconnection Agreement for Net Energy Metering Solar or Wind Electric Generating Facilities for Other than Residential or Small Commercial of 10 Kilowatts or Less.....	22735-E
142-02760.5	05-12	Interconnection Agreement for Virtual Net Metering (VNM) Photovoltaic Electric Generating Facilities.....	22857-E
142-02761	10-03	Biogas Digester Generating Facility Net Energy Metering and Interconnection Agreement.....	16697-E
142-02762	01-13	Fuel Cell Generating Facility NEM and Interconnection Agreement.....	23444-E
142-02763	10-12	NEM/VNM-A Inspection Report.....	23234-E
142-02765	10-13	NEM Application & Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 kW or Less.....	23808-E
142-02766	10-13	Interconnection for Solar and/or Wind ONLY Electric Generating Facilities	23809-E
142-02768	02-09	Photovoltaic Generation Allocation Request Form.....	21148-E
142-02769	10-13	NEM Aggregation Form.....	23810-E
142-02770	12-12	Generation Credit Allocation Request Form.....	23288-E
142-3201	---	Residential Hotel Application for Residential Rates.....	5380-E
142-3242		Agreement for Exemption from Income Tax Component on Contributions and Refundable Advances.....	6041-E
142-4032	05-13	Application for California Alternate Rates for Energy (CARE) Program for Qualified Agricultural Employee Housing Facilities.....	23507-E
142-4035	06-05	Application for California Alternate Rates for Energy (CARE) Program for Migrant Farm Worker Housing Centers.....	18415-E
142-05200	09-12	Generator Interconnection Agreement for Fast Track Process.....	23216-E
142-05201	09-12	Exporting Generating Facility Interconnection Request.....	23217-E
142-05202	01-01	Generating Facility Interconnection Application Agreement....	14152-E
142-05203	10-12	Generating Facility Interconnection Application.....	23236-E
142-05205	07-02	Optional Binding Mandatory Curtailment Plan Contract.....	17729-E
142-05207	04-06	Base Interruptible Program Contract.....	23043-E
142-05209	04-01	No Insurance Declaration.....	15476-E
142-05210	06-04	Rolling Blackout Reduction Program Contract.....	18273-E
142-05211	06-04	Bill Protection Application.....	18273-E
142-05212	07-03	Demand Bidding Program Non-Disclosure Agreement.....	17152-E
142-05215	04-06	Third Party Marketer Agreement for BIP.....	22975-E

(Continued)

10P4

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**Lee Schavrien**

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