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September 25, 2009

**ADVICE LETTER 2111-E**  
(U 902-G)

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

**SUBJECT: REVISIONS TO ELECTRIC RATE SCHEDULE NEM – NET ENERGY  
METERING SERVICE AND THE ASSOCIATED APPLICATION AND  
INTERCONNECTION AGREEMENT FORMS**

San Diego Gas & Electric Company (SDG&E) hereby submits for filing the following revisions to its electric tariffs as shown on the attachment.

**PURPOSE**

The purpose of this advice filing is to request authority from the California Public Utilities Commission (Commission) to simplify tariff related paperwork for the interconnection of customers with solar and/or wind generators of 30 Kilowatts (kW) or less taking service under Electric Rate Schedule NEM, Net Energy Metering Service. Pacific Gas & Electric (PG&E) filed a similar Advice Letter (3068-E-A), which was approved by the Commission in October, 2007.

The proposed modifications would change the criteria so the simplified interconnection process is based solely on whether the customer's solar or wind generator is 30kW or less, regardless of customer class. Additionally, by adding provisions currently in the new interconnection agreement to Schedule NEM, a customer who takes over an existing NEM account does not have to submit a new interconnection agreement. This will also apply to the handling of homes in solar subdivisions, where the developer/contractor establishes the interconnection, so the customer who buys the home will not have to re-submit the paperwork. Further, existing applications and agreements will be amended to reflect that the simplified process now applies to all NEM customers with solar and/or wind generators of 30kW or less.

**BACKGROUND**

When the California Legislature first established solar and wind net metering in 1998, the program was limited to residential and small commercial customer systems sized up to 10 kW. When, in 2001, the Legislature temporarily expanded the program to cover all customer classes with systems up to 1 MW, the distinction between the "standard" and "expanded" NEM application forms and processes was developed to help distinguish between the permanent and

temporary portions of the program. When the Legislature made the expansion permanent in 2002, this structure was maintained.

Recently, SDG&E has recognized that a large number of its NEM interconnections are under 30kW. SDG&E believes most of its customers could benefit from a simpler interconnection process and that simplification can be accomplished with no reduction in system safety or reliability. From a technical viewpoint, it is logical to base the "standard" and "expanded" distinction solely on generator size, not customer class, since generator size is the factor that most accurately reflects the amount of engineering review that is necessary to determine the possible impact of a generator on the distribution system. SDG&E believes that the 30kW or less threshold will permit continued review of the effect of customer generation on SDG&E's distribution system, while offering a majority of SDG&E's NEM interconnections a streamlined and customer-friendly application process.

In addition to applying the simpler interconnection process to most solar customers, SDG&E has worked with solar contractors and customers to revise the interconnection documents themselves in order to better facilitate the interconnection process by reducing the amount of administrative work necessary for both the customer and SDG&E. By replacing and incorporating the contents of SDG&E's Application for Interconnection for Facilities of Less Than 30kW (<http://sdge.com/business/netMetering.shtml>) with new Form 142-02765 (Attachment B), SDG&E is able to significantly reduce the amount of paperwork required from customers.

By making the "Change of Party" process essentially paperless, establishing NEM service for new customers at sites with generators previously approved by SDG&E becomes considerably simpler. This process improvement has significant implications for residential new construction, where an increasing number of housing developers are adding solar to new homes.

## **TARIFF CHANGES**

SDG&E proposes changing the following filed tariffs to support the creation of a simplified application process for NEM customers interconnecting solar and/or wind electric generating facilities of 30kW and less.

**Schedule NEM** - SDG&E proposes to add the following language to the "Applicability" section of Electric Rate Schedule NEM:

As of January 1, 2010, a Customer who owns, rents or leases a premises that includes solar and/or wind turbine electrical generating facilities, or a hybrid of both 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 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 solar and/or wind turbine electrical generating facilities 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 Facilities of 30kW or Less (Form 142-02765) and otherwise meets all of SDG&E's requirements for the NEM project, 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.

**Special Condition 4 of Schedule NEM** - SDG&E will update Special Condition 4 of Schedule NEM, Interconnection, to reflect the availability of the new Form 142-02765, Net Energy Metering Application and Interconnection Agreement for Customers with Solar and/or Wind Generating Facilities of 30kW or Less.

**Form 142-02765** – This newly created form, Net Energy Metering Application and Interconnection Agreement for Customers with Solar and/or Wind Generating Facilities of 30kW or Less, combines both the existing internet Application for Interconnection and the Interconnection Agreement into a single form. This will better facilitate the interconnection process by reducing the amount of administrative work necessary for both the customer and SDG&E.

**Application for Interconnection of a Solar or Wind Powered Electrical Generating Facility of Less Than 30kW** (<http://sdge.com/business/netMetering.shtml>) – This filing eliminates/replaces SDG&E's Application for Interconnection for Facilities of Less than 30kW. This internet accessible form will be incorporate/replaced by a single new document, Form 142-02765 - Net Energy Metering Application and Interconnection Agreement for Customers with Solar and/or Wind Generating Facilities of 30kW or Less.

This filing also amends the following forms to reflect the new form option for customers utilizing this streamlined application process:

**Form 142-05203 and Form 142-02760** - SDG&E proposes to add the following language to Form 142-05203, Generating Facility Interconnection Application and to Form 142-02760, Interconnect Agreement for NEM Solar or Wind Electric Generating Facilities:

“A simpler, shorter form is also available for Net Energy Metering Customers with Solar and/or Wind Electric Generating Facilities of 30kW or Less (Form 142-02765).”

This filing will not increase any rate or charge, cause the withdrawal of service, or conflict with any rate schedule or rule.

**EFFECTIVE DATE**

SDG&E believes that this filing is subject to Energy Division disposition and should be classified as Tier 2 (effective after staff approval) pursuant to GO 96-B. Therefore SDG&E respectfully requests that this advice letter become effective October 25, 2009, which is 30 calendar days after the date filed.

**PROTEST**

Anyone may protest this advice letter to the Commission. The protest must state the grounds upon which it is based, including such items as financial and service impacts, and should be submitted expeditiously. The protest must be made in writing and received within 20 days of the date this advice letter was filed with the CPUC. There is no restriction on who may file a protest. The address for mailing or delivering a protest to the Commission is:

Public Utilities Commission  
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 Honesto Gatchallian ([jni@cpuc.ca.gov](mailto:jni@cpuc.ca.gov)) and Maria Salinas ([mas@cpuc.ca.gov](mailto:mas@cpuc.ca.gov)) of the Energy Division. It is also requested that a copy of the protest 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) 654-1788  
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 interested parties to service list R.08-03-008, 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) 654-1788 or by e-mail at [SDG&ETariffs@semprautilities.com](mailto:SDG&ETariffs@semprautilities.com).

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RON VAN DER LEEDEN  
Director – Rates, Revenues & Tariffs

(cc list enclosed)

# 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: Megan Caulson

Phone #: (858) 654-1748

E-mail: MCaulson@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) #: 2111-E

Subject of AL: Revisions to Electric Schedule NEM - Net Energy Metering Service and the Associated Application and Interconnection Agreement Forms.

Keywords (choose from CPUC listing): Demand Side Management

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

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

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: \_\_\_\_\_

Resolution Required?  Yes  No

Tier Designation:  1  2  3

Requested effective date: 10/25/09

No. of tariff sheets: 15

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: Electric Schedule NEM, Form 142-05203, Form 142-02760, Form 142-02765, Table of Contents

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**

**mas@cpuc.ca.gov and jnj@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

D. Appling  
S. Cauchois  
J. Greig  
R. Pocta  
W. Scott

Energy Division

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

CA. Energy Commission

F. DeLeon  
R. Tavares

Alcantar & Kahl LLP

K. Harteloo

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

CCSE

S. Freedman  
J. Porter

Children's Hospital & Health Center

T. Jacoby

City of Chula Vista

M. Meacham  
E. Hull

City of Poway

R. Willcox

City of San Diego

J. Cervantes  
G. Lonergan  
M. Valerio

Commerce Energy Group

V. Gan

Constellation New Energy

W. Chen

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

Dynegy, 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

OnGrid Solar

Andy Black

Pacific Gas & Electric Co.

J. Clark  
M. Huffman  
S. Lawrie  
E. Lucha

Pacific Utility Audit, Inc.

E. Kelly

R. W. Beck, Inc.

C. Elder

School Project for Utility Rate  
Reduction

M. Rochman  
Shute, Mihaly & Weinberger LLP

O. Armi

Solar Turbines

F. Chiang

Sutherland Asbill & Brennan LLP

K. McCrea

Southern California Edison Co.

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

TransCanada

R. Hunter  
D. White

TURN

M. Florio  
M. Hawiger

UCAN

M. Shames

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

R.08-03-008

ATTACHMENT A  
ADVICE LETTER 2111-E

Cal. P.U.C. Sheet No.	Title of Sheet	Canceling Cal. P.U.C. Sheet No.
Revised 21362-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 1	Revised 21142-E
Revised 21363-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 2	Revised 20442-E
Revised 21364-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 3	Revised 20172-E **
Revised 21365-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 4	Revised 20443-E
Revised 21366-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 5	Revised 20444-E
Revised 21367-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 6	Revised 20445-E
Revised 21368-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 7	Revised 20446-E
Revised 21369-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 8	Revised 20447-E
Original 21370-E	SCHEDULE NEM, NET ENERGY METERING, Sheet 9	
Revised 21371-E	SAMPLE FORMS, FORM 142-02760, Sheet 1	Revised 16707-E
Original 21372-E	SAMPLE FORMS, FORM 142-02765, Sheet 1	
Revised 21373-E	SAMPLE FORMS, FORM 142-05203, Sheet 1	Revised 20213-E **
Revised 21374-E	TABLE OF CONTENTS, Sheet 1	Revised 21346-E
Revised 21375-E	TABLE OF CONTENTS, SCHEDULE OF RATES, Sheet 5	Revised 21341-E
Revised 21376-E	TABLE OF CONTENTS, Sheet 10	Revised 21251-E



**SCHEDULE NEM**

NET ENERGY METERING

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 solar or wind turbine electrical generating facility, or a hybrid system of both, with a 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 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 2.5% of SDG&E's aggregate customer peak demand.

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 7 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 7 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21.

As of January 1, 2010, a Customer who owns, rents or leases a premises that includes solar and/or wind turbine electrical generating facilities, or a hybrid of both 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.

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**SCHEDULE NEM**

NET ENERGY METERING

APPLICABILITY (Continued)

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 solar and/or wind turbine electrical generating facilities 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 Facilities 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.

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 7 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 7 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 7 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.

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**SCHEDULE NEM**

NET ENERGY METERING

RATES (Continued)

Customer-generators with Multiple Tariff Facilities with existing NEM, NEM-BIO 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.

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. Wind Energy Co-Metering Facility: Any wind energy generating facility greater than 50 kW, but not exceeding 1,000 kW, where, as determined by the rates set forth in the customer's OAS, only the monthly value of the generation component of the electric energy supplied through the electric grid may be offset by the monthly value of the generation component of the electric energy generated by an eligible customer-generator and fed back to the electric grid over a 12-month period.
  - b. Otherwise Applicable Schedule: The NEM-eligible customer-generator's regularly filed rate schedule under which service is rendered.
  
2. Metering Equipment: Eligible Wind Energy Co-Metering customer-generators, see Special Condition 6. Multiple Tariff Facilities will be metered under one of the options in Special Condition 7. 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 solar or wind, or a hybrid system of both, electric generating system 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.

(Continued)

3H19

Advice Ltr. No. 2111-E

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

Issued by  
**Lee Schavrien**  
Senior Vice President  
Regulatory Affairs

Date Filed Sep 25, 2009

Effective Oct 25, 2009

Resolution No. \_\_\_\_\_



**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

- 3. Net Energy Metering and Billing: Eligible Wind Energy Co-Metering customer-generators, see also Special Condition 6 and facilities qualifying under multiple tariffs, see also Special Condition 7. 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 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.

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.

Except as provided in Special Condition 6, 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.

(Continued)

4H19

Advice Ltr. No. 2111-E

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

Issued by  
**Lee Schavrien**  
Senior Vice President  
Regulatory Affairs

Date Filed Sep 25, 2009

Effective Oct 25, 2009

Resolution No. \_\_\_\_\_



**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

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.

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.

(Continued)



**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

- 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.
- 4. Interconnection: Prior to Parallel Operation, the eligible customer-generator must execute and comply with the applicable Utility Interconnection Agreement For Net Energy Metering Solar Or Wind Electric Generating Facilities (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 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
- 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. Wind-Energy Co-Metering: In accordance with Section 2827.8 of the PU Code, any generating facility comprising eligible wind energy generators greater than 50 kW capacity but not exceeding 1,000 kW taking service under this tariff is required to comply with this section. A generating facility that includes both non-NEM-eligible generators and a wind generator eligible under this schedule is considered a Multiple Tariff Facility and will be interconnected subject to Special Condition 7.

Wind Energy Co-Metering customer-generators are required to take service on a TOU OAS and utilize a TOU meter, or multiple TOU meters, capable of separately measuring the electric energy flowing in both directions, that is the electric energy supplied by the Utility to the customer and the electric energy generated by the customer and fed back to the electric grid. If the customer's existing meter is not a TOU meter or is not capable of separately measuring the flow of electric energy in both directions, the eligible customer-generator is responsible for all expenses involved in purchasing and installing a meter that is both TOU and able to separately measure electric energy flow in both directions.

At the end of each Relevant Period (as described in Special Condition 3), if the value of the generation component of the electric energy fed back to the electric grid by the eligible customer-generator exceeds the value of the generation component of the electric energy supplied to the eligible customer-generator by the Utility, the eligible customer-generator is a Wind Energy Co-Metering producer; (otherwise the eligible customer-generator is a Wind Energy Co-Metering consumer.)

An eligible customer-generator's consumption of electricity, from the Utility for wind energy co-metering, shall be priced in accordance with the eligible customer-generator's OAS in concurrence with the rate structure to which the customer would be assigned if the customer did not use an eligible wind electrical generating facility. The generation of electricity provided to the electric service provider shall result in a credit to the eligible customer-generator and shall be priced in accordance with the generation component of the eligible customer-generator's OAS, excluding surcharges to cover the purchase of power by the Department of Water Resources, to which the customer would be assigned if the customer did not use an eligible wind electrical generating facility.

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**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

7. Multiple Tariff Facilities:

Multiple Tariff Facilities have the following additional provisions:

- a) When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section F.
- 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, NEM-BIO 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, NEM-BIO 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) Any generator(s) eligible for service under Schedule NEM-BIO with aggregated load accounts and any generator(s) eligible for service under Schedule NEM for large wind generators (over 50 kW up to 1000 kW/Energy Co-metering) will be treated as a separate Constituent Generator Group.
- f) 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:
    - 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.

(Continued)



**SCHEDULE NEM**

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

- 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.

Generating facilities including only small wind (50 kW or less) and solar generators are not Multiple Tariff Facilities 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 NEM-BIO Generation Rate Component credits (if any) to Generation Rate Component charges on any aggregated accounts served by the Generating Facility.
  - b) Second, apply remaining NEM-BIO credits from (a) above and Generation Rate Component credits from NEM-FC, and NEM of large wind (>50 kW) generators (if any) as appropriate, to the remainder of generation component charges on the account served by the generating facility (Host Account).
  - c) Third, apply NEM solar and small wind (<50 kW) energy (generation and non-generation rate component) credits to energy charges of the accounts served by the generating facility.

g) 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.
- 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.

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Issued by

Date Filed

Sep 25, 2009

Advice Ltr. No. 2111-E

**Lee Schavrien**

Effective Oct 25, 2009

Senior Vice President  
Regulatory Affairs

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

Resolution No. \_\_\_\_\_



San Diego Gas & Electric Company  
San Diego, California

Original Cal. P.U.C. Sheet No. 21370-E

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

**SCHEDULE NEM**

Sheet 9

NET ENERGY METERING

SPECIAL CONDITIONS (Continued)

For any of the above configurations, if the customer-generator has no Constituent Generator Group eligible for Schedule NEM-BIO with aggregated accounts, but has a Constituent Generator Group eligible for Schedule NEM for small wind (50 kW or less) and/or solar generators, the customer-generator may elect to take service for such under either Schedule NEM for large wind generators or Schedule NEM-BIO or 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.

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Advice Ltr. No. 2111-E

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

Issued by  
**Lee Schavrien**  
Senior Vice President  
Regulatory Affairs

Date Filed Sep 25, 2009

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Resolution No. \_\_\_\_\_



San Diego Gas & Electric Company  
San Diego, California

Revised Cal. P.U.C. Sheet No. 21371-E

Canceling Revised Cal. P.U.C. Sheet No. 16707-E

**SAMPLE FORMS**

Sheet 1

FORM 142-02760

Interconnection Agreement for Net Energy Metering  
Solar or Wind Electric Generating Facilities

(09/09)

(See Attached Form)

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Advice Ltr. No. 2111-E

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

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**Lee Schavrien**  
Senior Vice President  
Regulatory Affairs

Date Filed Sep 25, 2009

Effective Oct 25, 2009

Resolution No. \_\_\_\_\_



A simpler, shorter form is also available for Net Energy Metering Customers with Solar and/or Wind Electric Generating Facilities of 30kW or Less (Form 142-02765).

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**SAN DIEGO GAS & ELECTRIC COMPANY  
INTERCONNECTION AGREEMENT FOR NET ENERGY METERING  
SOLAR OR WIND ELECTRIC GENERATING FACILITIES**

This "Interconnection Agreement for Net Energy Metering ("Agreement") is entered into by and between the Customer Generator ("CG") and San Diego Gas & Electric Company ("SDG&E"). The CG and SDG&E are sometimes also referred to in this Agreement jointly as "Parties" or individually as "Party." In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

**1. SCOPE AND PURPOSE**

This Agreement provides for CG to interconnect and operate a Generating Facility in parallel with SDG&E's Distribution System to serve the electrical loads connected to the electric service account that SDG&E uses to interconnect CG's Generating Facility.

Consistent with, and in order to effectuate, the provisions of Section 2827 and 2827.7 of the California Public Utilities Code and SDG&E's electric rate Schedule NEM - Net Energy Metering, Parties enter into this Agreement. This Agreement applies to the CG's Generating Facilities identified below with the specified characteristics and generating capacity, and does not allow interconnection or operation of facilities different than those described.

**2. SUMMARY OF GENERATING FACILITY AND CG ACCOUNT**

2.1 Generating Facility Identification Number: \_\_\_\_\_ (Assigned by SDG&E)

2.2 CG Meter Number: \_\_\_\_\_

2.3 CG Account Number: \_\_\_\_\_

2.4 Applicable Rate Schedule: \_\_\_\_\_

2.5 Generating Facility Location:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City / Zip: \_\_\_\_\_

2.5.1 This Agreement is applicable only to the Generating Facility described below 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 permission.

2.6 Generating Facility Technology: \_\_\_\_\_ Solar, Wind or Hybrid=(Both).

2.7 Generating Facility Nameplate Rating: \_\_\_\_\_ kW.

2.8 Expected maximum monthly energy production of Generating Facility: \_\_\_\_\_ kWh.

2.9 The Generating Facility's expected date of Initial Operation is \_\_\_\_\_. The expected date of Initial Operation shall be within two years of the date of this Agreement.

### 3. GENERATING FACILITY INTERCONNECTION AND DESIGN REQUIREMENTS

3.1 CG 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.

3.2 **CG shall not commence parallel operation of the Generating Facility until written approval has been provided to it by SDG&E.** (CG's Initials \_\_\_\_\_) SDG&E shall provide such written approval within thirty (30) working days from SDG&E's receipt of a complete Net Energy Metering Application including all supporting documentation and required payments, a completed and signed Net Energy Metering Interconnection Agreement, and the final inspection clearance of the governmental authority having jurisdiction over the Generating Facility.

Such approval shall not be unreasonably withheld. SDG&E shall have the right to have representatives present at the initial testing of CG's protective apparatus. CG shall notify SDG&E five (5) working days prior to initial testing.

3.3 SDG&E shall have the right to have its representatives present at the final inspection made by the governmental authority having jurisdiction to inspect and approve the installation of the Generating Facility. CG shall notify SDG&E in accordance with the terms of Section 12, herein, at least five (5) days prior to such inspection.

3.4 CG shall not add generation capacity in excess of the Nameplate Rating set forth in Section 2.7 of this Agreement, or otherwise modify the Generating Facility without the prior written permission of SDG&E.

### 4. METERING AND BILLING

Metering requirements and billing procedures shall be set forth in the rate schedule(s) applicable to the electric service account assigned to the location where the Generating Facility is connected.

### 5. DISCONNECTION, INTERRUPTION OR REDUCTION OF DELIVERIES

5.1 SDG&E may require CG to interrupt or reduce the output of its Generating Facility under the following circumstances:

(a) Whenever SDG&E deems it necessary in its sole judgment, to construct, install, maintain, repair, replace, remove, investigate, or inspect any of its equipment or any part of its electric system; or

(b) Whenever SDG&E determines in its sole judgment, that curtailment, interruption, or reduction of CG's electrical generation is otherwise necessary due to emergencies, forced outages, force majeure, or compliance with prudent electrical practices.

5.2 Notwithstanding any other provision of this Agreement, upon termination of this Agreement or at any time SDG&E determines the continued parallel operation of the Generating Facility may endanger the public or SDG&E personnel, or affect the integrity of SDG&E's electric system or the quality of electric service provided to other customers, SDG&E shall have the right to require the Generating Facility to be immediately disconnected from SDG&E's electric system. The Generating Facility shall remain disconnected until such time as SDG&E is satisfied, in its sole judgment, that the condition(s) causing such disconnection have ended or have been corrected.

- 5.3 Whenever feasible, SDG&E shall give CG reasonable notice of the possibility that interruption or reduction of deliveries may be required.
- 5.4 Electrical energy and capacity provided to CG during periods of curtailment or interruption of the output of the Generating Facility shall be provided pursuant to the terms of the rate schedule(s) applicable to the electric service account to which the Generating Facility is connected.

## **6. ACCESS TO PREMISES**

SDG&E may enter CG's premises at all reasonable hours without notice to CG for the following purposes:

- (a) To inspect CG's protective devices and read or test meter(s); and
- (b) To disconnect the Generating Facility and/or service to CG, whenever in SDG&E's sole opinion, a hazardous condition exists and such immediate action is necessary to protect persons, SDG&E's facilities, or property of others from damage or interference caused by the Generating Facility, or the absence or failure of properly operating protective devices.

## **7. INDEMNITY AND LIABILITY**

- 7.1 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, damage, claim, cost, charge, demand, or expense (including any direct, indirect or consequential loss, liability, damage, 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 facilities, 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, demand, or expense resulting from its sole negligence or willful misconduct.
- 7.2 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.
- 7.3 The provisions of this Section shall not be construed to relieve any insurer of its obligations to pay any insurance claims in accordance with the provisions of any valid insurance policy.
- 7.4 Except as otherwise provided in Section 7.1, neither Party shall be liable to the other Party for consequential damages incurred by that Party.
- 7.5 Nothing in this Agreement shall create any duty, any standard of care with reference to, or any liability to any person who is not a party to it.

- 7.6 Notwithstanding the provisions of Section 7.1, CG shall be responsible for protecting its Generating Facility from damage by reason of the electrical disturbances of faults caused by the operation, faulty operation, or non-operation of SDG&E's facilities, and SDG&E shall not be liable for any such damage so caused.

## **8. INSURANCE**

If CG's generator meets all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the Public Utilities Commission regarding safety and reliability, the following insurance provisions in Sections 8.1 – 8.3 apply:

- 8.1 To the extent that CG has currently in force all risk property insurance and commercial liability insurance, CG agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. SDG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation.
- 8.2 CG shall meet the standards and rules set forth in Section 13, have the appropriate liability insurance in Section 8.1, and shall not be required to purchase any additional liability insurance.
- 8.3 Such liability insurance shall, by endorsement to the policy or policies, provide for thirty (30) calendar days written notice to SDG&E prior to cancellation, termination, alteration, or material change of such insurance.

For generators that do not meet the interconnection criteria of this section then the following insurance requirements apply:

- 8.4 In connection with CG's performance of its duties and obligations under this Agreement, CG shall maintain, during the term of the Agreement, general liability insurance with a combined single limit of not less than:
- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is greater than one hundred (100) kW;
  - (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; and
  - (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is twenty (20) kW or less.
  - (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is ten (10) kW or less and Producer's Generating Facility is connected to an account receiving residential service from SDG&E.

Such insurance shall include coverage for "Premises-Operations, Owners and Contractors Protective, Products/Completed Operations Hazard, Explosion, Collapse, Underground, Contractual Liability, and Broad Form Property Damage including Completed Operations."

- 8.5 The general liability insurance required in Section 8.4 shall, by endorsement to the policy or policies, (a) include SDG&E as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that SDG&E shall not by reason of its inclusion as an additional insured incur liability to the insurance carrier for payment of premium for such insurance; and (d) provide for thirty (30) calendar days' written notice to SDG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.6 If CG's Generating Facility is connected to an account receiving residential service from SDG&E and the requirement of Section 8.5 (a) prevents CG from obtaining the insurance required in Section 8.4, then upon CG's written Notice to SDG&E in accordance with Section 12.1, the requirements of Section 8.5 (a) shall be waived.
- 8.7 Evidence of the insurance required in Section 8.4 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by SDG&E.
- 8.8 CG shall furnish the required insurance certificates and endorsements to SDG&E prior to Initial Operation of the Generating Facility. Thereafter, SDG&E shall have the right to periodically inspect or obtain a copy of the original policy or policies of insurance.
- 8.9 If CG is self-insured with an established record of self-insurance, CG may comply with the following in lieu of Sections 8.4 through 8.5:
- (a) CG shall provide to SDG&E, at least thirty (30) calendar days prior to the date of Initial Operation, evidence of an acceptable plan to self-insure to a level of coverage equivalent to that required under Section 8.4.
  - (b) If CG ceases to self-insure to the level required hereunder, or if CG is unable to provide continuing evidence of CG's ability to self-insure, CG agrees to immediately obtain the coverage required under Section 8.4.
- 8.10 All insurance certificates, statements of self insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

San Diego Gas & Electric Company  
 Attention: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City / Zip: \_\_\_\_\_

**9. REVIEW OF RECORDS AND DATA**

- 9.1 SDG&E shall have the right to review and obtain copies of CG's operations and maintenance records, logs, or other information such as, unit availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to CG's Generating Facility or its Interconnection with SDG&E's Distribution System.
- 9.2 CG authorizes to release to the California Energy Commission (CEC) information regarding CG's facility, including CG name, location, size, and operational characteristics of the unit, as requested from time to time pursuant to the CEC's rules and regulations.

**10. GOVERNING LAW, JURISDICTION OF CPUC, INCLUSION OF SDG&E's RATE SCHEDULES AND RULES**

- 10.1 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 without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.
- 10.2 This Agreement shall, at all times, be subject to such changes or modifications by the CPUC as it may from time to time direct in the exercise of its jurisdiction.
- 10.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the rate schedules and rules applicable to the electric service provided by SDG&E, which rate schedules and rules are hereby incorporated into this Agreement by this reference.
- 10.4 Notwithstanding any other provisions of this Agreement, SDG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application for change in rates, charges, classification, service, tariff or rule or any agreement relating thereto.

**11. AMENDMENT, MODIFICATIONS, WAIVER OR ASSIGNMENT:**

- 11.1 This Agreement may not be altered or modified by either of the Parties, except by an instrument in writing executed by each of them.
- 11.2 None of the provisions of this Agreement shall be considered waived by a Party unless such waiver is given in writing. The failure of a Party to insist in any one or more instances upon strict performance of any of the provisions of this Agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or the relinquishment of any such rights for the future, but the same shall continue and remain in full force and effect.
- 11.3 This Agreement shall supersede any existing agreement under which CG is currently operating the Generating Facility identified in Section 2, herein, and any such agreement shall be deemed terminated as of the date this Agreement becomes effective.
- 11.4 This Agreement contains the entire agreement and understanding between the Parties, their agents, and employees as to the subject matter of this Agreement. Each party also represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement.
- 11.5 Neither Party shall voluntarily assign this Agreement or any of its rights or duties hereunder without the written consent of the other Party, which consent shall not be unreasonably withheld. Any such assignment or delegation made without such written consent shall be null and void.

**12. NOTICES**

12.1 Any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given if delivered in person or sent by first class mail, postage prepaid, to the person specified below:

**If to SDG&E:** San Diego Gas & Electric Company  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Phone: ( ) \_\_\_\_\_  
FAX: ( ) \_\_\_\_\_

**If to CG :** \_\_\_\_\_  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Phone: ( ) \_\_\_\_\_  
FAX: ( ) \_\_\_\_\_

12.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 12.1.

**13. DOCUMENTS INCLUDED; DEFINED TERMS**

13.1 This Agreement includes the following exhibit(s) which are specifically incorporated herein and made a part of this Agreement by this reference:

Appendix A- Description of Generating Facility and Single-Line Diagram

Appendix B- (When applicable) Copy of interconnection facility financing and ownership agreement

In addition, SDG&E Electric Rules and Rates, including but not limited to Electric Rules 2, 14, and 21, Schedule NEM, and CG's otherwise applicable rate schedule, available at SDG&E's web-site at [www.sdge.com/regulatory](http://www.sdge.com/regulatory), or by request, are incorporated herein and made part of this Agreement.

13.2 When initially capitalized, whether in the singular or in the plural, the terms used herein shall have the meanings assigned to them either in this Agreement or in SDG&E's electric Rule 21.

**14. TERM AND TERMINATION OF AGREEMENT**

14.1 This Agreement shall become effective when signed by CG and SDG&E, and shall remain in effect thereafter from month to month unless terminated by either Party on thirty (30) days' prior written notice in accordance with Section 12.

14.2 This Agreement shall terminate, without notice, upon: (a) termination of the electric distribution service provided to CG by SDG&E; or (b) changes to CG's electric load which cause CG to no longer satisfy all requirements of the definition of an Eligible CG set forth in Section 2827(b)(2) of the California Public Utilities Code.

**15. ENTIRE AGREEMENT**

This Agreement, including any incorporated tariff schedules and rules, contains the entire agreement and understanding between the Parties, their agents, and employees as to the subject matter of this Agreement. Each party also represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement or in the incorporated tariff schedules and rules

**16. SIGNATURES**

In WITNESS WHEREOF, the Parties hereto have caused two originals of this Agreement to be executed by their duly authorized representatives. This Agreement is effective as of the last date set forth below.

\_\_\_\_\_  
(CG NAME)

**SAN DIEGO GAS & ELECTRIC COMPANY**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**APPENDIX A**

DESCRIPTION OF GENERATING FACILITY AND SINGLE-LINE DIAGRAM  
(Provided by Producer)



San Diego Gas & Electric Company  
San Diego, California

Original Cal. P.U.C. Sheet No. 21372-E

\*

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

**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

(10/09)

N  
N  
N  
N

(Continued)

1C20

Advice Ltr. No. 2111-E

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

Issued by  
**Lee Schavrien**  
Senior Vice President  
Regulatory Affairs

Date Filed Sep 25, 2009

Effective Oct 25, 2009

Resolution No. \_\_\_\_\_



# 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 agreement 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 by website 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 [www.sdge.com/construction](http://www.sdge.com/construction) 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)

If you are applying for a California Solar Initiative (CSI) rebate, please check the appropriate box 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

**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):

- A New NEM Generating Facility interconnection (at an existing service)
- For 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)
- A 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 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.
- An 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 type="checkbox"/> 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/documents/business/loa.pdf>

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 can not 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.

**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.

- 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. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule-NEM Generating Facility location.

Customer shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. A Customer with a solar or wind-turbine electrical generating system, or a hybrid system of both, that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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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)

To the extent that Customer has currently in force property insurance and commercial general liability or personal liability insurance, Customer agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. San Diego Gas and Electric Company shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation. As long as Customer meets the requirements of this section, Customer shall not be required to purchase any additional liability insurance.

I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$\_\_\_\_\_ for the Schedule-NEM Generating Facility location.

Insuring Company's Name: \_\_\_\_\_

Insurance Policy # \_\_\_\_\_

I do not have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule-NEM Generating Facility location

4. 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. What applicable **Rate Schedule** have you selected for your NEM account (known as your "otherwise applicable rate schedule" or "OAS")?

RESIDENTIAL:

- DR – Non-Time-of-Use Residential Service
- DRTOU – Residential Time-of-Use Service
- DRSES – Residential Time-of-Use Service (Solar Energy Systems)
- DRLI – Care Electric Domestic Service
- DM – Multi Family Service
- Other Residential rate schedule (\_\_\_\_\_) please enter

SMALL COMMERCIAL:

- A – Small General Non-Time-of-Use Service
- ALTOU – Large General Time-of-Use Service (≥20 Kw)

AGRICULTURAL:

- PA – General Agricultural Power
- PAT1– Agricultural Power - Optional Time of Use
- Other (\_\_\_\_\_)

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?**

- Yes **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?**

- Yes **If yes,** will the vehicle recharging facility be separately metered from the residence?  
 Yes: 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?**

- Yes **If yes,** specify what kind of generator \_\_\_\_\_
- No

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

- Yes **If yes,** check all that apply:

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

- No

**G. Are you on a Demand Response program?**

- Yes **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** (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 I.6.) 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. 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:**

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

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.

**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’ 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. 21373-E

Canceling Revised Cal. P.U.C. Sheet No. 20213-E \*\*

**SAMPLE FORMS**

Sheet 1

FORM 142-05203

GENERATING FACILITY  
INTERCONNECTION APPLICATION

(09/09)

(See Attached Form)

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1C13

Advice Ltr. No. 2111-E

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

Issued by  
**Lee Schavrien**  
Senior Vice President  
Regulatory Affairs

Date Filed Sep 25, 2009

Effective Oct 25, 2009

Resolution No. \_\_\_\_\_

**Part 1 – Introduction and Overview**

- A. Applicability:** This Generating Facility Interconnection Application (Application) is used to request the interconnection of a Generating Facility to San Diego Gas and Electric Company's (SDG&E) Distribution System (over which the California Public Utilities Commission (CPUC) has jurisdiction). Refer to SDG&E's Rule 21 to determine the specific requirements for interconnecting a Generating Facility. Capitalized terms used in this Application, and not otherwise defined herein, shall have the same meanings as defined in SDG&E's Rule 21 and Rule 1.

Except as noted in the next paragraph, this Application may be used for any Generating Facility to be operated by, or for, a Customer and/or Producer to serve part or all of its electric energy requirements that would otherwise be provided by SDG&E, including "distributed generation", "cogeneration," emergency, backup, and standby generation, and Net Energy Metered (NEM) Generating Facilities. A simpler, shorter form is also available from SDG&E for Net Energy Metered Generating Facilities with a nameplate rating less than 30 kW (Form 142-05202) While Customers operating Generating Facilities isolated from SDG&E's Distribution System are not obligated to enter into an Interconnection Agreement with SDG&E, parts of this Application will need to be completed to satisfy SDG&E's notice requirements for operating an isolated Generating Facility as required by the California Health and Safety Code Section 119085(b).

This Application may not be used to apply for interconnecting Generating Facilities used to participate in transactions where all, or a portion of, the electrical output of the Generating Facility is scheduled with the California Independent System Operator. Such transactions are subject to the jurisdiction of the Federal Energy Regulatory Commission (FERC) and require a different application available from SDG&E.

This Application is not applicable for incentives and/or rebates offered by the Energy Resources Conservation and Development Commission ("CEC") or the CPUC. Please contact those agencies directly or on their respective websites ([www.energy.ca.gov](http://www.energy.ca.gov) and [www.cpuc.ca.gov](http://www.cpuc.ca.gov)).

- B. Guidelines and Steps for Interconnection:** This Application must be completed and sent to SDG&E along with the additional information indicated in Part 1, Section C below to initiate SDG&E's interconnection review of the proposed Generating Facility. An Initial Review fee of \$800 (payable by check or money order to San Diego Gas and Electric must accompany all Applications except those Applications for isolated Generating Facilities, Solar and Net Energy Metering Generating Facilities. The \$800 Initial Review fee must be submitted separately from the Application. The check or money order must be submitted with SDG&E's "Customer Payment Remittance" (CPR) form. A copy of the CPR form may be requested by contacting: **Ken Parks** at (858) 636-5581 or email: [kparks@semprautilities.com](mailto:kparks@semprautilities.com). Supplemental Review and Interconnection Study fees may be required for large capacity and/or more complex Generating Facility Interconnections; see SDG&E's Rule 21, Section C.1.b. & c. Please refer to the California Energy Commission's website: [http://www.energy.ca.gov/distgen/interconnection/guide\\_book.html](http://www.energy.ca.gov/distgen/interconnection/guide_book.html) for more information regarding interconnection of a generator to SDG&E's Distribution System.

This document is only an Application. Upon acceptance, SDG&E will prepare an Interconnection Agreement for execution by the "Producer," the party that will be responsible for the Generating Facility. SDG&E may also require an inspection and testing of the Generating Facility and any related Interconnection Facilities prior to giving the Producer written authorization to operate in parallel. **Unauthorized Parallel Operation may be dangerous and may result in injury to persons and/or may cause damage to equipment and/or property for which a Producer/Customer may be liable!**

Please note, other approvals may need to be acquired, and/or other agreements may need to be formed with SDG&E or regulatory agencies, such as the Air Quality Management Districts and local governmental building and planning commissions prior to operating a Generating Facility. SDG&E's authorization to operate in parallel does not satisfy the need for an Applicant to acquire such other approvals.

- C. Required Documents:** Six (6) copies of this Application and each of the following documents **must be submitted** before this application will be processed. Drawings must conform to accepted engineering standards and must be legible. 11"x17" drawings are preferred.
1. A **Single-line drawing** showing the electrical relationship and descriptions of the significant electrical components such as the primary switchgear, secondary switchboard, protective relays, transformers, generators, circuit breakers, with operating voltages, capacities, and protective functions of the Generating Facility, the Customer's loads, and the interconnection with SDG&E's Distribution System. Please show the location of all required net generation electric output meters and the A.C. manually operated disconnect devices on the single line drawing.
  2. **Site plans and diagrams** showing the physical relationship of the significant electrical components of the Generating Facility such as generators, transformers, primary switchgear/secondary switchboard, and control panels, the Customer's loads and the interconnection with SDG&E's Distribution System. Please show the location of all required net generation electric output meters and the A.C. manually operated disconnect devices on the site plans.
  3. If **transformers** are used to interconnect the Generating Facility with SDG&E's Distribution System, please provide transformer nameplate information (voltages, capacity, winding arrangements, connections, impedance, et cetera).
  4. If a **transfer switch** or scheme is used to interconnect the Generating Facility with SDG&E Distribution System, please provide component descriptions, capacity ratings, and a technical description of how the transfer scheme is intended to operate.
  5. If **protective relays** are used to control the interconnection, provide protection diagrams or elementary drawings showing relay wiring and connections, proposed relay settings, and a description of how the protection scheme is intended to function.

**Part 1 Cont'd – Introduction and Overview**

- D. Mailing Instructions, Assistance:** When this application has been completed it may be printed and mailed, along with the required attachments to:
- 

**San Diego Gas & Electric**  
*Attention: Mr. Ken Parks*  
**8316 Century Park Court, CP52F**  
**San Diego, CA 92123-1582**

A simpler, shorter form is also available for Net Energy Metering Customers with Solar and/or Wind Electric Generating Facilities of 30kW or Less (Form 142-02765). Alternatively, you may contact SDG&E at (858) 636-5585 and make arrangements to e-mail or fax copies of the required information with payment of the required fees to follow. If you have questions or need assistance in completing this application please call.

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**Part 2 – Identifying the Generating Facility’s Location and Responsible Parties**

<i>Project Name:</i>	<i>Date Received:</i>	<i>Generating Facility ID:</i>	<i>Application Expiration Date (Refer to Part 2, Section E)</i>

(For SDG&E Use Only)

**NEM Projects Only (Check one):** California Solar Initiative \_\_\_\_\_  
 Self Generation Incentive Program \_\_\_\_\_  
 Performance Based Incentive \_\_\_\_\_

**A. Customer Electric Account Information** (What electric service will the Generating Facility be connected? For aggregated electric accounts (under NEM-BIO, dairy operations only) provide the primary and all associated accounts/meter information)

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Name shown on SDG&E service account      Electric Account Number      Meter Number

*NOTE: Customer Electric account must match the customer's utility bill account information.*

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Meter Location Street Address      City      State      Zip

**Customer Electric Account Contact Information** (Who is the customer contact for progress updates and/or additional information?)

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Contact Person      Company Name

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Phone      Fax      E-mail

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Mailing Address      City      State      Zip

**B. Project Contact Information** (Who is the project contact for this Generating Facility?)

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Project Contact Person (Optional)      Company Name

--	--	--

Phone      Fax      E-mail

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Mailing Address      City      State      Zip

B.1. Will the Generating Facility be owned by a (third) party other than the name appearing on the SDG&E service account in A. above (please check)? \_\_\_\_\_ Yes \_\_\_\_\_ No

**Part 2 Cont'd – Identifying the Generating Facility's Location and Responsible Parties**

**C. 1. Customer - Generation Facility Interconnection Agreement (“GFIA”) or Customer Generation Agreement (“CGA”) (applicable to 3<sup>rd</sup> Party Owner Only) Information** (Please identify, if known, the party that will execute the applicable agreement.) Not applicable for Net Energy Metering Applicants.

Person Executing the GFIA/CGA	Title of Person Executing GFIA/CGA

Name of Legal Entity to be entered in signatures section of the GFIA/CGA

**C.2. 3<sup>rd</sup> Party Owner – GFIA Information** (Please identify the Party, if known, that will execute the GFIA). Not applicable for Net Energy Metering Applicants.

Person Executing the GFIA	Title of Person Executing GFIA

Name of Legal Entity to be entered in signatures section of the GFIA

**D. Operating Date** (What date is this Generating Facility expected to begin operation?)

**E. Expiration Date\*** (The date the status of this Application is changed to “withdrawn” by SDG&E?)

**\* The information submitted in this Application will remain active and valid for a period of 12 months from the date the Application was accepted by SDG&E as a “completed” Application. If the project has not received written authorization to operate in parallel, or that reasonable proof the project is going forward has not been submitted to SDG&E by that time, the Application will be considered “withdrawn”. To the extent that the Initial Review, Supplemental Review, or Detailed Interconnection Study fees have been paid to and the corresponding reviews/study completed by SDG&E, Applicant will only be entitled to a return of one-half of the Initial Review fee of \$400. All other fees will be forfeited.**

**Part 3 - Describing the Generating Facility and Host Customer's Electrical Facilities**

A. (MP&I)	Indicate the operating mode of the Generating Facility	operating mode options: ___1 ___2 ___3 (Choose one)
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Instructions and Notes

Choose from the following operating mode options:

1. **Parallel Operation:** The Generating Facility will interconnect and operate "in parallel" with SDG&E's Distribution System for more than one (1) second.
2. **Momentary Parallel Operation (MP):** The Generating Facility will interconnect and operate on a "momentary parallel" basis with SDG&E's Distribution System for a duration of one (1) second or less through transfer switches or operating schemes specifically designed and engineered for such operation.
3. **Isolated Operation (I):** The Generating Facility will be "isolated" and prevented from becoming interconnected with SDG&E's Distribution System through a transfer switch or operating scheme specifically designed and engineered for such operation.

If the answer is operating mode option 1, "parallel operation," please supply all of the information requested for the Generating Facility. Be sure to supply adequate information including diagrams and written descriptions regarding the protective relays that will be used to detect faults or abnormal operating conditions on SDG&E's Distribution System.

If the answer is operating mode option 2, "momentary parallel operation," only questions A, E and F of this Part 3 and questions A, B, E, F, I, L, M, N, and S of Part 4 need be answered. Be sure, however, to supply adequate information including diagrams and written descriptions regarding the switching device or scheme that will be used to limit the parallel operation period to one second or less. Please also describe the back up or protective device and controls that will trip the Generating Facility should the transfer switch or scheme not complete the transfer in one second or less.

If the answer is operating mode option 3, "Isolated Operation," only questions A, E, and F of this Part 3 and questions A, B, F, and S of Part 4 need be answered. Be sure, however, to supply adequate information including diagrams and written descriptions regarding the isolating switching device or scheme that will be used to prevent the Generating Facility from operating in parallel with SDG&E's Distribution System.

B.  <i>Parallel Operation Applications Only</i>	<p>If the Answer to Section A above was operating mode option 1, please indicate the type of agreement that is being requested with this Application. If operating mode option 2, 3 or 4 was selected, please skip to questions E and F.</p> <p>If agreement options 2, 3, 4, 6, 7, 9, 10, 11, 12 or 13 to this Section B are chosen, please provide an estimate of the maximum kW the Generating Facility is expected to export to SDG&amp;E's Distribution System. If SDG&amp;E determines that the amount of power to be exported is significant in relation to the capacity available on its Distribution System, it may request additional information, including time of delivery or seasonal kW/kWh estimates.</p>	agreement options: ___1 ___2 ___3 ___4 ___5 ___6 ___7 ___8 ___9 ___10 ___11 ___12 ___13 (Choose all that apply)  _____ Maximum kW
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Instructions and Notes

Sample agreements are available from SDG&E for review. Choose from the following thirteen (13) agreement options:

**Customer Owned Generating Facility (not NEM eligible)**

1. **A Generating Facility Interconnection Agreement (Form 142-05202)** that provides for parallel operation of the Generating Facility, but does not provide for exporting power to SDG&E's Distribution System.
2. **A Generating Facility Interconnection Agreement (Inadvertent Export) (Form 142-0544)** that provides for parallel operation of the Generating Facility, and the occasional, inadvertent, non-compensated, export of power to SDG&E's Distribution System for one second or less.
3. **A "Qualifying Facility" Power Purchase Agreement** that provides for parallel operation of the Generating Facility, and exporting power to SDG&E's Distribution System for sale to SDG&E. This option is available only to "Qualifying Facilities" with a total Nameplate Capacity of 100 kW or less. See Question F for the definition of a Qualifying Facility. (This type of agreement has not yet been developed by SDG&E or approved by the CPUC. Check with SDG&E for availability).
4. **A Generating Facility Interconnection Agreement (Continuous Export) (Form 142-0545)** that provides for parallel operation of the Generating Facility, and, continuous export of power to SDG&E's Distribution System.

**Part 3 Cont'd - Describing the Generating Facility and Host Customer's Electrical Facilities**

**Third Party Owned Generating Facility (not NEM eligible)**

5. **A Generating Facility Interconnection Agreement (Form 142-0543)** that provides for parallel operation of the third party owned Generating Facility, but does not provide for exporting power to SDG&E's Distribution System.
6. **A Generating Facility Interconnection Inadvertent Export Agreement (Form 142-0542)** that provides for parallel operation of the third party owned Generating Facility and the occasional, inadvertent, non-compensated, export of power to SDG&E's Distribution System for one second or less.
7. **A "Qualifying Facility" Power Purchase Agreement** that provides for parallel operation of the third party owned Generating Facility, and exporting power to SDG&E's Distribution System for sale to SDG&E. This option is available only to "Qualifying Facilities" with a total Nameplate Capacity of 100 kW or less. See Question F for the definition of a Qualifying Facility (This type of agreement has not yet been developed by SDG&E or approved by the CPUC. Check with SDG&E for availability)
8. **A Customer Generation Agreement (Form 142-0541)** that defines the relationship between the Customer whose name appears on SDG&E's electric service account (this agreement must be executed in addition to 5. 6. or 7)

**Net Energy Metering Generating Facility**

**If Applicant intends to operate the Generating Facility under one of SDG&E's Net Energy Metering tariffs, following a bi-directional metering installation, the meter and disconnect switch must be installed in a location acceptable to SDG&E. Access to the meter and disconnect switch located on Applicant's premises must be in accordance with SDG&E Electric Rule 16, Section A 11.**

9. **A Net Energy Metering Agreement (Form 142-02760)** that provides for parallel operation of a qualifying solar and/or wind Generating Facility with a capacity of not more than 1,000 kW, and exporting power to SDG&E's Distribution System for credit under the terms of SDG&E's Net Energy Metering tariffs. This option is available only to eligible Generating Facilities as defined in SDG&E's Net Energy Metering tariffs.
10. **A Net Energy Metering Agreement: Biogas Digester (Form 142-02761)** that provides for parallel operation of a qualifying biogas digester Generating Facility with a capacity of not more than 1,000 kW, and exporting power to SDG&E's Distribution System for credit under the terms of SDG&E's Net Energy Metering tariffs. This option is available only to eligible Generating Facilities as defined in SDG&E's Net Energy Metering tariffs.
11. **A Net Energy Metering Agreement: Fuel Cell (Form 142-02762)** that provides for parallel operation of a qualifying fuel cell Generating Facility with a capacity of not more than 1,000 kW, and exporting power to SDG&E's Distribution System for credit under the terms of SDG&E's Net Energy Metering tariffs. This option is available only to eligible Generating Facilities as defined in SDG&E's Net Energy Metering tariffs.
12. **A Net Energy Metering Agreement: Multiple Tariff (Form ...)** that provides for parallel operation of a Generating Facility that consists of generators 1) eligible for service under applicable net energy metering tariffs with a combined capacity of not more than 1,000 kW, and exporting power to SDG&E's Distribution System for credit under the terms of SDG&E's Net Energy Metering tariffs and 2) generators not eligible for net metering tariffs. All Generating Facility Generators are electrically connected behind the same Point of Common Coupling. This option is available only to eligible Generating Facilities as defined in SDG&E's Net Energy Metering and other applicable tariffs.
13. **Other, please describe:** \_\_\_\_\_

<p>C. <i>Parallel Operation Applications Only</i></p>	<p>If the answer to Section B above was agreement option 1 or 5, please indicate the protection option that will be used to prevent energy from being exported to SDG&amp;E's Distribution System.</p> <p>If protection option 3 to this Section C is selected, please provide the continuous current rating of the host Customer facility's service entrance equipment (service panel rating):</p> <p>If protection option 4 to this Section C is selected, please provide the minimum load of the host Customer facility:</p>	<p>protection option:  <input type="checkbox"/> 1   <input type="checkbox"/> 2   <input type="checkbox"/> 3   <input type="checkbox"/> 4          (Choose one)</p> <p>_____ Amps</p> <p>_____ kW</p>
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## Instructions and Notes

Refer to SDG&E's Rule 21, Section I.2., for additional information as to how to answer this question. If the Generating Facility will never export power to SDG&E's Distribution System, a simpler, lower cost, protection scheme may be used to control the interface between the Generating Facility and SDG&E's Distribution System. Choose from the following four options:

1. A reverse-power protection device will be installed to measure any export of power and trip the Generating Facility or open an intertie breaker to isolate the Generating Facility if limits are exceeded.
2. An under-power protection device will be installed to measure the inflow of power and trip or reduce the output of the Generating Facility if limits are not maintained.
3. The Generating Facility Interconnection Facility equipment has been certified as Non-Islanding and the incidental export of power will be limited by the design of the interconnection. If this option is to be used, the continuous ampere rating of the service entrance equipment (service panel rating) that is used by the host Customer facility must be stated in the space provided above.
4. The Gross Nameplate Rating of the Generating Facility will not exceed 50% of the host Customer facility's minimum electrical load. If this option is to be used, the minimum load of the host Customer facility must be stated in the space provided above.

Note: With the approval of SDG&E, a Producer that wishes to retain the option to export power from a Generating Facility to SDG&E's Distribution System may use a different protection scheme that provides for the detection of faults and other abnormal operating conditions.

**Part 3 Cont'd - Describing the Generating Facility and Host Customer's Electrical Facilities**

<p>D. <i>Parallel Operation Applications Only</i></p>	<p>What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault.)</p> <p>Please indicate the short circuit interrupting rating of the host Customer facility's service panel:</p>	<p>_____</p> <p>Amps</p> <p>_____</p> <p>Amps</p>
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Instructions and Notes

Refer to SDG&E's Rule 21 Sections D.4.a. and I.3.g. for significance and additional information. To determine this value, any transformers and/or significant lengths of interconnecting conductor used between each of the Generators (if there are more than one) that make up the Generating Facility and the PCC must be taken into account. The details, impedance, and arrangement of such transformers and interconnecting conductors should be shown on the single-line diagram that is provided. Consult an electrical engineer or the equipment supplier if assistance is needed in answering this question.

It is expected that most Applicants will want to reserve the flexibility to operate any or all of their Generators in parallel. If the design of the proposed Generating Facility limits the amount of generation that may be interconnected at any time to SDG&E's Distribution System, please describe the assumptions used in calculating the maximum fault current contribution value.

<p>E. (MP&amp;I)</p>	<p>Please indicate how this Generating Facility will be operated.</p>	<p><input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6</p> <p>(Please choose all options that may apply.)</p>
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Instructions and Notes

Choose from the following five operation options:

- Combined Heat and Power or Cogeneration** – Where the operation of the Generating Facility will produce thermal energy for a process other than generating electricity.
- Peak Shaving/Demand Management** – Where the Generating Facility will be operated primarily to reduce electrical demands of the host Customer facility during SDG&E's "peak pricing periods".
- Primary Power Source** – Where the Generating Facility will be used as the primary source of electric power and power supplied by SDG&E to the host Customer's loads will be required for supplemental, standby, or backup power purposes only.
- Standby / Emergency / Backup** – Where the Generating Facility will normally be operated only when SDG&E's electric service is not available.
- Net Energy Metering** – Where the Generating Facility qualifies and receives service under SDG&E's Net Energy Metering tariffs.
- Multiple Tariff** – Generating Facilities that have a combination of generator(s) eligible for service under one or more of SDG&E's NEM tariffs and/or generator(s) eligible to receive service under other, non-NEM eligible SDG&E tariffs. Check one of the following four options:

**Part 4 – Describe each of the Generators (See Instructions.) Use additional sheets, if necessary.**

- New facility installing non-NEM generator(s) and NEM generators at the same time.
- Existing facility with non-NEM generator(s) and planning to add NEM generator(s). Please provide data for the table below.
- Existing facility with NEM generator(s) and planning to add non-NEM generator(s). Please provide data for the table below.
- Existing facility with NEM generator(s) and planning to add NEM generator(s) under a different NEM tariff. Please provide data for the table below.

Instructions	Generator Information	Existing Generator Type	Existing Generator Type	New Generator Type	New Generator Type	Totals For All Generators
#	Please indicate the number of each "type" of Generator being installed: (See instructions)					
A (MP&I)	Gen/Inverter Manufacturer					
B (MP&I)	Generator/Inverter Mode					
C	Gen/Inverter Software Version					
D	Is the Generator Certified	__Yes __No	__Yes __No	__Yes __No	__Yes __No	
E (MP)	Generator Design (Choose One)	__ Synchronous __ Induction __ Inverter	__ Synchronous __ Induction __ Inverter	__ Synchronous __ Induction __ Inverter	__ Synchronous __ Induction __ Inverter	
F (MP&I)	Gross Nameplate Rating (kVA)					
G	Gross Nameplate Rating (kW)					
H	Net Nameplate Rating (kW)					
I (MP)	Operating Voltage (Volts or kV)					
J	Power Factor Rating (%)	Min. _____ Max. _____		Min. _____ Max. _____	Min. _____ Max. _____	
K	PF Adjustment Range (%)					
L (MP)	Wiring Configuration (Choose One)	__Single-Phase __Three-Phase		__Single-Phase __Three-Phase	__Single-Phase __Three-Phase	

Part 4 Cont'd – Describe each of the Generators (See instructions) Use additional sheets if necessary					
Instr.	Generator Information	Existing Generator Type	Existing Generator Type	New Generator Type	New Generator Type
M (MP)	3-Phase Winding Configuration (Choose One)	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye
N (MP)	Neutral Grounding System Used (Choose One)	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor _____ Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor _____ Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor _____ Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor _____ Ohms
O	<i>For Synchronous Generators Only:</i> Synchronous Reactance: Transient Reactance: Subtransient Reactance:	_____ (Xd %) _____ (X'd %) _____ (X''d %)	_____ (Xd %) _____ (X'd %) _____ (X''d %)	_____ (Xd %) _____ (X'd %) _____ (X''d %)	_____ (Xd %) _____ (X'd %) _____ (X''d %)
P	<i>For Induction Generators Only:</i> Locked Rotor Current:  OR Stator Resistance: Stator Leakage Reactance: Rotor Resistance: Rotor Leakage Reactance:	_____ (Amps)  _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps)  _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps)  _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps)  _____ (%) _____ (%) _____ (%) _____ (%)
Q	Short Circuit Current Produced by Generator:	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
R	<i>For Generators that are Started as a "Motor" Only</i>  1. In-Rush Current: 2. Host Customer's Service Entrance Panel (Main Panel) Continuous Current Rating:	_____ (Amps)  _____ (Amps)	_____ (Amps)  _____ (Amps)	_____ (Amps)  _____ (Amps)	_____ (Amps)  _____ (Amps)
S (MP&I)	Prime Mover Type: (Circle One)	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

F. (MP&I)	Please indicate if Qualifying Facility Status will be obtained from the FERC for this Generating Facility.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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**Instructions and Notes**

Parties operating Generating Facilities complying with all of the requirements for qualification as either a small power production facility or cogeneration facility pursuant to the regulations of the FERC (18 Code of Federal Regulations Part 292, Section 292.203 et seq.) implementing the Public Utility Regulatory Policies Act of 1978 (16 U.S.C.A. Section 796, et seq.), or any successor requirements for "Qualifying Facilities," may seek certification from FERC to have the Generating Facility designated as a Qualifying Facility or "QF." In summary, QF's are Generating Facilities using renewable or alternative fuels as a primary energy source or facilities that utilize the thermal energy given off by the generation process for some other useful purpose. QF's enjoy certain rights and privileges not available to non-QF Generating Facilities.

QF status is not required to interconnect and operate in parallel with SDG&E's Distribution System.

G.	Please indicate if Generating Facility will meet the annual Efficiency and Operating Standards of PUC Code 216.6 (Applicable to Cogeneration Only)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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**Instructions for Part 4 – Describing the Generators**

	<b>Generator Information</b>	<b>Instructions and Comments</b>
#	Please indicate the number of each “type” of Generator being installed:	Please provide the following information for each Generator “type”. Be sure all Generators classified as one “type” are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed. Please be sure the information in the “Totals” column is correct and reflects the total number of Generator units to be installed.
A	Generator/Inverter Manufacturer	Enter the brand name of the Generator.
B	Generator/Inverter Model	Enter the model name or number assigned by the manufacturer of the Generator.
C	Generator/Inverter Software Version	If this Generator’s control and or protective functions are dependent on a “software” program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.
D	Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rule 21?	Answer “Yes” only if the Generator manufacturer can or has provided certification data. See SDG&E’s Rule 21, Section J for additional information regarding Generator certification.
E	Generator Design	Please indicate the design of each Generator. Designate “Inverter” anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.
F	Gross Nameplate Rating (kVA)	This is the capacity value normally supplied by the manufacturer and stamped on the Generator’s “nameplate”. This value is not required where the manufacturer provides only a “kW” rating. However, where both kVA and kW values are available, please indicate both.
G	Gross Nameplate Rating (kW)	This is the capacity value normally supplied by the manufacturer and stamped on the Generator’s “nameplate”. This value is not required where the manufacturer provides only a “kVA” rating. However, where both kVA and kW values are available, please indicate both.
H	Net Nameplate Rating (kW)	This capacity value is determined by subtracting the “auxiliary” or “station service” loads used to operate the Generator or Generating Facility. Applicants are not required to supply this value but, if it is not supplied, applicable standby charges may be based on the higher “gross” values.
I	Operating Voltage	This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See SDG&E’s Rule 21, Section D.2.b. for additional information.
J	Power Factor Rating	This value should be the nominal power factor rating designated by the manufacturer for the Generator. See SDG&E’s Rule 21, Section D.2.i. for additional information.

**Instructions for Part 4 Cont'd – Describing the Generators**

	<b>Generator Information</b>	<b>Instructions and Comments</b>
K	PF Adjustment Range	Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See SDG&E's Rule 21, Section D.2.i.
L	Wiring Configuration	Please indicate whether the Generator is a single-phase or three-phase device. See SDG&E's Rule 21, Section D.3.
M	3-Phase Winding Configuration	For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.
N	Neutral Grounding	Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.
O	<i>For Synchronous Generators Only:</i>	If the Generator is of a "synchronous" design, please provide the synchronous reactance, transient reactance, and subtransient reactance values supplied by the manufacturer. This information is necessary to determine the short circuit contribution of the Generator and as data in load flow and short circuit computer models of SDG&E's Distribution System. If the Generator's Gross Nameplate Capacity is 10 MW or greater, SDG&E may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.
P	<i>For Induction Generators Only:</i>	If the Generator is of an "induction" design, please provide the "locked rotor current" value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator's Gross Nameplate Capacity is 10 MW or greater, SDG&E may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.
Q	Short Circuit Current Produced by Generator	Please indicate the current each Generator can supply to a three-phase fault across its output terminals. For single phase Generators, please supply the phase-to-phase fault current.

**Instructions for Part 4 Cont'd – Describing the Generators**

	<b>Generator Information</b>	<b>Instructions and Comments</b>
R	<p><i>For Generators that are Started as a "Motor" Only:</i></p> <ol style="list-style-type: none"> <li>1. In-Rush Current</li> <li>2. Host Customer's Service Entrance Panel (Main Panel) Continuous Current Rating</li> </ol>	<p>This information is needed only for Generators that are started by "motoring" the generator.</p> <p>See SDG&amp;E's Rule 21, Section I.3.e. for significance and additional information.</p> <p>If this question was answered in Part 3, question C of this Application, it need not be answered here.</p>
S	<p>Prime Mover Type</p>	<p>Please indicate the type and fuel used as the "prime mover" or source of energy for the Generator.</p> <ol style="list-style-type: none"> <li>1 = Internal Combustion Engine – Natural Gas</li> <li>2 = Internal Combustion Engine – Diesel Fueled</li> <li>3 = Internal Combustion Engine - Other Fuel</li> <li>4 = Microturbine– Natural Gas</li> <li>5 = Microturbine – Other Fuel</li> <li>6 = Combustion Turbine Natural Gas</li> <li>7 = Combustion Turbine - Other Fuel</li> <li>8 = Steam Turbine</li> <li>9 = Photovoltaic Panels</li> <li>10 = Solar-thermal engine</li> <li>11 = Fuel Cell– Natural Gas</li> <li>12 = Fuel Cell– Other Fuel</li> <li>13 = Hydroelectric Turbine</li> <li>14 = Wind Turbine</li> <li>15 = Other (please describe)</li> </ol>



**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.

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