

**PUBLIC UTILITIES COMMISSION**

505 VAN NESS AVENUE



October 20, 2021

**Advice Letter 6273-E-A**

Erik Jacobson  
Director, Regulatory Relations  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, CA 94177

**SUBJECT: Supplemental: Modifications to Pacific Gas and Electric Company's Net Energy Metering Interconnection Application Processes Pursuant to the Rulemaking 14-07-002 Decision 21-06-026 Ordering Paragraph 2.**

Dear Mr. Jacobson:

Advice Letter 6273-E-A is effective as of December 17, 2021.

Sincerely,

A handwritten signature in cursive script that reads "Edward Randolph".

Edward Randolph  
Deputy Executive Director for Energy and Climate Policy/  
Director, Energy Division

August 20, 2021

**Advice 6273-E-A**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Supplemental: Modifications to Pacific Gas and Electric Company's Net Energy Metering Interconnection Application Processes Pursuant to the Rulemaking 14-07-002 Decision 21-06-026 Ordering Paragraph 2**

**Purpose**

The purpose of this Tier 2 supplemental advice letter is to explain how Pacific Gas and Electric Company ("PG&E") plans to modify its interconnection application processes, both the interim manual process, and IT long-term automated process, to request additional information for California Public Utilities Commission ("CPUC" or "Commission") regulatory or enforcement purposes, and also to submit one new form and revise existing PG&E forms to request the additional information required by the Commission, pursuant to CPUC Decision ("D.") 21-06-026<sup>1</sup> Ordering Paragraph (OP) 2. This supplement replaces Advice Letter (AL) 6273-E in its entirety.

**Background****AB 1070**

California Assembly Bill ("AB") 1070 (Gonzalez-Fletcher, approved October 11, 2017) requires, among other things, the Contractors State License Board ("CSLB") to receive and review customer complaints regarding solar energy companies and solar contractors, and publish an annual report documenting these complaints beginning July 1, 2019.

**D.18-09-044**

Subsequent CPUC decisions refined consumer protection, including D.18-09-044. *Adopting Net Energy Metering Consumer Protection Measures Including Solar Information Packet*, approved by the Commission on September 27, 2018. In D.18-

---

<sup>1</sup> [D. 21-06-026](#) - *Decision Directing Establishment of Net Energy Metering Interconnection Application Portals, and Process to Publicize and Scrutinize Solar Providers Whose Applications Have Been Found in Non-Compliance With Applicable Laws and Regulations* - Date of Issuance 6/25/2021

09-044, the CPUC directed PG&E and the other two California Investor-Owned Utilities (“IOUs”) to support solar consumer protection efforts by instituting various processes, including IOUs’ modifying their interconnection portals to require solar providers that interconnect net energy metering (“NEM”)-eligible systems with investor-owned utility distribution systems to provide a valid CSLB license.

#### **D.21-06-026**

On June 25, 2021, the Commission issued D.21-06-026, which adopted a number of additional solar consumer protections, including directing the IOUs to each establish a web-based search engine for regulatory agency staff to search and retrieve NEM interconnection application documents. To this end, the Commission requested that the IOUs collect certain information as part of its interconnection application processes and obtain customer consent to disclose confidential information for Commission regulatory or enforcement purposes, to assist with regulatory agency staff’s investigation purposes.

#### **Advice Letter 6273-E and Scope of this Advice Letter**

Pursuant to D. 21-06-026, OP 2 requires:

2. *Within 30 days after the issue date of this decision, Pacific Gas and Electric Company, San Diego Gas & Electric Company, and Southern California Edison Company must submit a Tier 2 advice letter modifying their net energy metering interconnection application processes to*
  - (1) *require the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license*
  - (2) *require the address of any entity that finances the project, including leases, through means other than Property Assessed Clean Energy financing, if applicable; and*
  - (3) *provide for customer consent to disclosure of confidential information, for Commission regulatory or enforcement purposes, as a condition of interconnection.*

[formatting added]

AL 6273-E was timely submitted pursuant to D. 21-06-026 OP 2 on July 26, 2021 to fulfill the three requirements of this ordering paragraph. In AL 6273-E, PG&E proposed a new form, 79-1215 –*Net Energy Metering Online Application Addendum*, which will request the information required by the Commission in D. 21-06-026. This NEM form will be **manually** completed by applicants until such time as PG&E can incorporate

the information requested by the Commission in this Decision into its online application portals.

PG&E now submits this supplemental advice letter to make additional updates to Form 79-1215, the form previously filed in AL 6273-E, and also to make modifications to other existing PG&E forms to include fields for the HIS registration, financing information, and customer consent to disclosure to anticipate the time when the manual process can be replaced by and incorporated into our existing automated application processes

### **Modification of the Interconnection Application Process**

PG&E is modifying its interconnection application process to request the additional information required by D.21-02-026, the Home Improvement Salesperson (“HIS”) number and the address of entities that finance customer projects through means other than Property Assessed Clean Energy (“PACE”) financing. Specifically, PG&E is incorporating new fields into its NEM applications that request the HIS number and financing information, as shown below: (*changes from AL 6273-E are shown below in red*). PG&E notes it discussed some of these changes with CALSSA to gain insight into how they would be used.

#### **E. Contractor Information**

*Does the contractor have a Home Improvement Salesperson (HIS) registration number?  
Was a Home Improvement Salesperson (HIS) involved in the development of your project?*

Yes  No

*California Public Utilities Commission (CPUC) Decision 21-02-026 requires “the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license.”*

If you checked “Yes” above:

Please provide ~~Contractor’s~~ Home Improvement Salesperson (HIS) registration number.

---

#### **C. System Owner**

Did you indicate in your application that your project is Property Assessed Clean Energy (PACE) Financed?

Yes  No

If you checked “No” above, indicating that you have financed your project through means other than PACE financing, or if you have financed through a lease, please fill in the information below.

\_\_\_\_\_  
Financial Institution/Lessor Name

\_\_\_\_\_  
Financial Institution/Lessor Address

\_\_\_\_\_  
City\*

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip\*

As PG&E notes on the changes above, D.21-02-026 OP 2 directs that PG&E must “require the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license.” PG&E’s interconnection application currently requires contractors to provide their applicable CSLB license number on all applications and will expand its application fields to also request the HIS registration number. As such, PG&E does not anticipate any issues with complying with this aspect of the CPUC’s Decision.

PG&E is also modifying its interconnection application process to request customer’s consent to the disclosure of confidential information for Commission regulatory or enforcement purposes pursuant to D.21-02-26 OP 2. Specifically, PG&E is updating its NEM application process to request concurrence with the following language:

**“As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”). I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities without further notification or consent.”**

In furtherance of this effort, PG&E is in the process of incorporating the new information requested by the Commission into its upcoming online application portal, YourProjects (previously SmartConnect). As discussed in PG&E Advice Letter 6270-E,<sup>2</sup> PG&E is streamlining its interconnection application process by

<sup>2</sup> PG&E Advice Letter 6270-E, “Modifications to Various Pacific Gas and Electric Company’s Electric Rule 21 Filed Forms to Support the Consolidation of its “YourProjects” Generator Application and Service Plan Application Online Portals,” submitted to the Commission on July 23, 2021.

consolidating its SNEM,<sup>3</sup> ACE-IT,<sup>4</sup> and CCO<sup>5</sup> portals along with PG&E's service planning online application portals into YourProjects, a one-stop shop for load and solar interconnection applications. YourProjects will have a number of customer benefits, including intuitive and dynamic form population and applicants' self-service ability to see application status.

Since PG&E has been planning for release of an improved online application portal for many months now, and given the many benefits this significant update will provide, PG&E is preparing to roll out the updates to YourProjects in several stages, beginning as soon as August 2021. As D.21-06-026's directives were issued relatively recently in June 2021, PG&E requests that the CPUC-directed changes to PG&E's online application portal be implemented in a later rollout, anticipated for December 2021. There is a chance this could occur earlier, but we would not be able to commit to that at the time of this advice letter. If that turns out to be the case PG&E would advise the Commission of that new release date.

### **Proposed Revised Forms**

PG&E proposes to revise the following forms to include the information required by the Commission in D.21-06-026. Form 79-1215 will be manually completed by applicants until such time as PG&E can incorporate the information requested by the Commission in this Decision into its online application portal.<sup>6</sup> The additional forms are being updated both to comply with D.21-06-026 and also to mirror PG&E's update of its online application portals.

1. **79-1215** Net Energy Metering Online Application Addendum
2. **79-1174-02D** - Interconnection Application Attachment D Solar (PV) Technology
3. **79-1151A** Agreement And Customer Authorization Net Energy Metering (NEM2) Interconnection for Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts or Less

---

<sup>3</sup> The SNEM (or Standard Net Energy Metering) application portal is for solar and/or wind net energy metering (Schedule NEM upgrades and Schedule NEM2) projects 30 kw or less. This portal is the most active by programing count, with about 6000 applications received per month.

<sup>4</sup> The ACE-IT (or Application Configuration & Eligibility Interconnection Tool) application portal is for other NEM project types not applicable to the SNEM tariff and other program (e.g., larger NEM2, NEMFC, storage, RES-BCT, non-export Rule 21, etc.) interconnections under Rule 21.

<sup>5</sup> The CCO portal (or Customer Connections Online) application portal is for New Service Installations, Temporary Construction Power, Service Relocations/Rearrangements, New Streetlight Services, and certain other large Electric Generation Interconnection Requests.

<sup>6</sup> Due to nuances in the application processes for the NEMEXP, NEM2EXP, NEMMT, and NEM2MT, customers applying for these programs will continue to submit Form 79-1215 even after PG&E rolls out the YourProjects portal and the fields required by CPUC D. 21-06-026 are implemented into YourProjects.

4. **79-1151A-02** Agreement And Customer Authorization Net Energy Metering (NEM2) Interconnection for Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts or Less
5. **79-1151B** Application Net Energy Metering (NEM2) Interconnection for Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts or Less
6. **79-1151B-02** Application Net Energy Metering (NEM2) Interconnection for Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts or Less
7. **79-1193** Agreement And Customer Authorization Net Energy Metering (NEM2) Interconnection for Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts or Less Paired with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification
8. **79-1193-02** Agreement And Customer Authorization Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification
9. **79-978** Interconnection Agreement For Net Energy Metering Of Solar Or Wind Electric Generating Facilities of 1,000 kW Or Less, Other Than Facilities Of 30 kW Or Less
10. **79-978-02** Interconnection Agreement For Net Energy Metering (NEM2) Of Solar Or Wind Electric Generating Facilities of 1,000 kW Or Less, Other Than Facilities Of 30 kW Or Less
11. **79-1069** Generating Facility Interconnection Agreement (Multiple Tariff)
12. **79-1069-02** Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT)

PG&E notes that, with regard to customers seeking to participate in PG&E's Net Energy Metering Aggregation program (NEMA) using one of the forms, the CPUC's consumer protection attributes apply only to qualifying solar residential accounts, such that the customer's residence is a benefiting or generating account.

### **Protests**

**\*\*\*Due to the COVID-19 pandemic, PG&E is currently unable to receive protests or comments to this advice letter via U.S. mail or fax. Please submit protests or comments to this advice letter to [EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov) and [PGETariffs@pge.com](mailto:PGETariffs@pge.com)\*\*\***

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than September 9, 2021, which is 20 days after the date of this submittal. Protests must be submitted to:

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

Facsimile: (415) 703-2200  
E-mail: EDTariffUnit@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest shall also be sent to PG&E either via E-mail or U.S. mail (and by facsimile, if possible) at the address shown below on the same date it is mailed or delivered to the Commission:

Sidney Bob Dietz II  
Director, Regulatory Relations  
c/o Megan Lawson  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B13U  
P.O. Box 770000  
San Francisco, California 94177

Facsimile: (415) 973-3582  
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

### **Effective Date**

Pursuant to General Order (GO) 96-B, Rule 5.1, and OP 2 of D.21-06-026, this advice letter is submitted with a Tier 2 designation. PG&E respectfully requests that this Tier 2 advice submittal become effective on December 17, 2021, to coincide with planned implementation of the CPUC's directives pursuant to D. 21-06-26 into PG&E's soon-to-be released online application portal, YourProjects.

**Notice**

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service list for R. 14-07-002 (NEM Successor). Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process\_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

\_\_\_\_\_/S/

Sidney Bob Dietz II  
Director, Regulatory Relations

Attachments

cc: Service List R.14-07-002



# ADVICE LETTER SUMMARY

## ENERGY UTILITY



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

Company name/CPUC Utility No.: Pacific Gas and Electric Company (ID U39E)

Utility type:

- ELC       GAS       WATER  
 PLC       HEAT

Contact Person: Kimberly Loo

Phone #: (415)973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: KELM@pge.com

### EXPLANATION OF UTILITY TYPE

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

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 6273-E-A

Tier Designation: 2

Subject of AL: Supplemental: Modifications to Pacific Gas and Electric Company's Net Energy Metering Interconnection Application Processes Pursuant to the Rulemaking 14-07-002 Decision 21-06-026 Ordering Paragraph 2

Keywords (choose from CPUC listing): Compliance

AL Type:  Monthly  Quarterly  Annual  One-Time  Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.21-06-026

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested?  Yes  No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required?  Yes  No

Requested effective date: 12/17/21

No. of tariff sheets: 16

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: See Attachment 1

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

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

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

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

CPUC, Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, CA 94102  
Email: [EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Name: Sidney Bob Dietz II, c/o Megan Lawson  
Title: Director, Regulatory Relations  
Utility Name: Pacific Gas and Electric Company  
Address: 77 Beale Street, Mail Code B13U  
City: San Francisco, CA 94177  
State: California Zip: 94177  
Telephone (xxx) xxx-xxxx: (415)973-2093  
Facsimile (xxx) xxx-xxxx: (415)973-3582  
Email: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)

Name:  
Title:  
Utility Name:  
Address:  
City:  
State: District of Columbia Zip:  
Telephone (xxx) xxx-xxxx:  
Facsimile (xxx) xxx-xxxx:  
Email:

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
51227-E	Electric Sample Form No. 79-1069 Generating Facility Interconnection Agreement (Multiple Tariff) Sheet 1	50567-E
51228-E	Electric Sample Form No. 79-1069-02 Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT) Sheet 1	50568-E
51229-E	ELECTRIC SAMPLE FORM 79-1151A AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Sheet 1	49228-E
51230-E	Electric Sample Form No. 79-1151A-02 Agreement And Customer Authorization Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Sheet 1	49229-E
51231-E	Electric Sample Form 79-1151B APPLICATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Sheet 1	48632-E
51232-E	Electric Sample Form No. 79-1151B-02 Application - Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Sheet 1	48633-E
51233-E	Electric Sample Form No. 79-1174-02D Rule 21 Generator Interconnection Application - Attachment D Sheet 1	49270-E
51234-E	Electric Sample Form No. 79-1193 Agreement and Customer Authorization Net Energy Metering (NEM) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification Sheet 1	49296-E
51235-E	Electric Sample Form No. 79-1193-02 Agreement and Customer Authorization Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification Sheet 1	49297-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
51236-E	Electric Sample Form No. 79-1215 Net Energy Metering Online Application Addendum Sheet 1	
51237-E	ELECTRIC SAMPLE FORM NO. 79-978 Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, Other Than Facilities of 30 Kilowatts or Less Sheet 1	50578-E
51238-E	Electric Sample Form No. 79-978-02 Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, Other than Facilities of 30 Kilowatts or Less Sheet 1	50579-E
51239-E	ELECTRIC TABLE OF CONTENTS Sheet 1	51192-E
51240-E	ELECTRIC TABLE OF CONTENTS Sheet 25	50638-E
51241-E	ELECTRIC TABLE OF CONTENTS Sheet 28	50640-E
51242-E	ELECTRIC TABLE OF CONTENTS Sheet 29	50641-E



**Electric Sample Form No. 79-1069**  
Generating Facility Interconnection Agreement (Multiple Tariff)

Sheet 1

**Please Refer to Attached  
Sample Form**

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

This *Generating Facility Interconnection Agreement (Multiple Tariff)* (Agreement) is entered into by and between \_\_\_\_\_ (Producer), and Pacific Gas and Electric Company (PG&E) a California Corporation. Producer and PG&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 Producer to interconnect and operate a Generating Facility in parallel with PG&E’s Distribution System to serve the electrical loads at the location identified in Section 2.4 (or for the qualifying energy where permitted under Section 218 of the California Public Utilities Code (PUC). The Generating Facility may be any combination of generators, but must include at least one “Eligible customer-generator.” Eligible customer-generators consist of any Renewable Electrical Generation Facility(ies) (as defined in PG&E’s Schedule NEM) or Eligible Fuel Cell Electrical Generating Facility(ies) (as defined in PG&E’s Schedule NEMFC).

- 1.1. This Agreement provides for Producer to operate the Eligible Generator(s) pursuant to the provisions of Section 2827 et seq. of the PU Code and the applicable PG&E tariffs for net energy metering. This Agreement also provides for Producer to operate its Non-Eligible Generator(s). This Agreement does not provide for retail electrical service by PG&E to Producer. Such arrangements must be made separately between PG&E and Producer.
- 1.2. This Agreement does not address Producer’s account billing and payment for energy consumption. For the Generating Facility as specified in Section 2 of this Agreement, please refer to the applicable PG&E net-energy-metered (NEM) tariff schedules for billing and payment protocol.
- 1.3. NEM Transition - Customers receiving service on the current NEM tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedule NEM at: [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_SCHEDS\\_NEM.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHEDS_NEM.pdf) for more details.

## 2. SUMMARY AND DESCRIPTION OF PRODUCER’S GENERATING FACILITY

- 2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Producer’s Generating Facility and loads are interconnected with PG&E’s Distribution System, are attached to and made a part of this Agreement. (Supplied by Producer as Appendix A).



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Producer's electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service account used to interconnect the Generating Facility with PG&E's Distribution System:

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

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

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

2.5 The Gross Nameplate Rating of the Generating Facility is:

2.5.1 Eligible Generator(s):

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	

2.5.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.5.3 **Total Gross** Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.6 The Net Nameplate Rating of the Generating Facility is:

2.6.1 Eligible Renewable Electrical Generation Facility Generator(s):



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	

2.6.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.6.3 **Total Net** Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.7 The maximum level of power that may be exported by the Generating Facility to PG&E's Distribution System is expected to be:

2.7.1 Eligible Generator(s):

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	

2.7.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.7.3 **Total maximum level of power** that may be exported by the Generating Facility: \_\_\_\_\_ kW



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

2.8 the purpose of securing the Competition Transition Charge exemption available under Section 372 of the California Public Utilities Code (PUC), Producer hereby declares that the portion of the Generating Facility that is generating in a combined heat and power mode
[ ] does / [ ] does not meet the requirements for Cogeneration as such term is used in Section 216.6 of the California Public Utilities Code.

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.

2.10 For the purpose of securing certain tariff charge exemptions available under the PU Code, Producer hereby declares the following for each Generator technology of the Generating Facility:

Requirements for Distributed Energy Resource Generation as such term is used in Section 353.1 of the PU Code.

Table with 2 columns and 10 rows listing various generating technologies (biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, small hydroelectric generation, fuel cell (under NEMFC), digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, biogas digester (under NEMBIO), other technology) and their compliance status (are met / are not met) with checkboxes.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

2.11 What applicable rate schedule, known as the otherwise applicable schedule will be selected for the net-energy-metering account(s):

### 3. DOCUMENTS INCLUDED; DEFINED TERMS

3.1 This Agreement includes the following exhibits which are specifically incorporated herein and made a part of this Agreement.

Appendix A - Description of Generating Facility and Single-Line Diagram (Supplied by Producer).

Appendix B - Web-site references to Rules 2 and 21 and other selected rules and tariffs of PG&E (Supplied by PG&E).

Appendix C - A Copy of *PG&E's Agreement for Installation or Allocation of Special Facilities for Parallel Operation of Nonutility-Owned Generation and/or Electrical Standby Service* (Form 79-280) (Special Facility Agreement), if applicable, (Formed by the Parties).

Appendix D - Producer's warranty that the Generating Facility meets the requirements for a Cogeneration facility pursuant to Section 216.6 of the PU Code (when applicable).

Appendix E - Producer's warranty that the Generating Facility meets the requirements for Distributed Energy Resources Generation as defined in Section 353.1 of the PU Code (when applicable).

Appendix F - Listing of eligible service accounts, as defined in PG&E's Schedule NEMBIO and/or NEMFC to be included in Net Energy Metering calculations (when applicable).

Appendix G - Producer's warranty that it meets the requirements for an Eligible Biogas Digester Electrical Generating Facility, (applicable Generator(s) only) as defined in Section 2827.9 of the PU Code (when applicable).

Appendix H - Schedule NEM Customer-Generator Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility Pursuant to Section 2827 of the California Public Utilities Code.

Appendix I -Operating Requirements for Energy Storage Device(s) (when applicable).



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

- 3.2 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 PG&E's Rule 21 Section C.

### 4. TERM AND TERMINATION

- 4.1 This Agreement shall become effective as of the last date entered in Section 16, below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

- (a) The Parties agree in writing to terminate the Agreement, or
- (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service account through which Producer's Generating Facility is interconnected to PG&E's Distribution System is closed or terminated, or
- (c) At 12:01 A.M. on the 61<sup>st</sup> day after Producer or PG&E provides written Notice pursuant to Section 9 below to the other Party of Producer's or PG&E's intent to terminate this Agreement.

- 4.2 Producer may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for one or more of the following reasons:

- (a) A change in applicable rules, tariffs, and regulations, as approved or directed by the California Public Utilities Commission "Commission," or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
- (b) Unless otherwise agreed to in writing by the Parties, Producer fails to take all corrective actions specified in PG&E's Notice that Producer's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
- (c) Producer fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to 120 days after the date set forth in Section 2.9, above, as the Generating Facility's expected date of Initial Operation; or,
- (d) Producer abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its reasonable opinion, the Generating Facility is non-operational and



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

Producer does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Producer's apparent abandonment of the Generating Facility affirming Producer's intent and ability to continue to operate the Generating Facility.

(e) Producer makes a change to the physical configuration of the Generating Facility, as declared in Section 2 and Appendix A of this Agreement.

4.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.

4.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

### 5. GENERATING FACILITY AND OPERATING REQUIREMENTS

5.1 Except for that energy delivered to PG&E's Distribution System, electric energy produced by Producer's Generating Facility shall be used solely to serve electrical loads connected to the electric service account that PG&E uses to interconnect Producer's Generating Facility (or, where permitted under Section 218 of the PUC, the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits). Producer shall not use the Generating Facility to serve electrical loads that will cause Producer to be considered an "electrical corporation" as such term is used in Section 218 of the California Public Utilities Code.

5.2 Unless otherwise agreed upon in writing by the Parties, this Agreement does not provide for, nor otherwise require PG&E to purchase, transmit, distribute, or store the electrical energy produced by Producer's Generating Facility.

5.3 Producer is responsible for operating the Generating Facility in compliance with all of PG&E's tariffs, including but not limited to PG&E's Rule 21 and applicable NEM tariff schedules, and applicable safety and performance standards established by the National Electric Code, Institute of Electrical and Electronic Engineers, accredited testing laboratories such as Underwriters Laboratories, rules of the Commission regarding safety and reliability, and any other regulations and laws governing the Interconnection of the Generating Facility.

5.4 Producer shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 5.3, and (b) obtain



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Producer shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Producer's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Producer's Generating Facility.

- 5.5 Producer shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided per the timelines established by the applicable PUC 2827 section, or by Rule 21. Such approval will be provided after PG&E's receipt of: (1) a completed Generating Facility Interconnection Application for Non-Export or Certain Net Energy Metered Generating Facilities (Between 30 KW and 1,000 KW) (Form 79-974), including all supporting documents and payments as described in the Application; (2) any required NEM supplemental application forms; (3) a signed and completed Generating Facility Interconnection Agreement (Multiple Tariff) (Form 79-1069); (4) a copy of the Producer's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility; and (5) submission of all applicable payments for reviews, studies, Interconnection Facilities, and Distribution System Modifications. Such approval will not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Producer shall notify PG&E at least five (5) business days prior to the initial testing.
- 5.6 In no event shall the delivery of the maximum electric power to PG&E's Distribution System exceed the amount or other limitations specified in Section 2 and Appendix A of this Agreement. If Producer does not regulate its Generating Facility in compliance with the limitations set forth in this Agreement, PG&E may require Producer to disconnect its Generating Facility from PG&E's Distribution System until Producer demonstrates to PG&E's reasonable satisfaction that Producer has taken adequate measures to regulate the output of its Generating Facility and control its deliveries of electric power to PG&E. Further, should PG&E determine that Producer's operation of the Generating Facility is causing an unsafe condition or is adversely affecting PG&E's ability to utilize its Distribution System in any manner, even if Producer's deliveries of electric power to PG&E's Distribution System are within the limitations specified in this Agreement, PG&E may require Producer to temporarily or permanently reduce or cease deliveries of electric power to PG&E's Distribution System. Alternatively, the Parties may agree to other corrective measures so as to mitigate the effect of electric power flowing from the Generating Facility to PG&E's Distribution System. Producer's failure to comply with the terms of this Section shall constitute a material breach of this



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

Agreement and PG&E may initiate termination in accordance with the terms of Section 4.2(b).

- 5.7 Producer shall not deliver reactive power to PG&E's Distribution System unless the Parties have agreed otherwise in writing.
- 5.8 The Generating Facility shall be operated with all of Producer's Protective Functions in service whenever the Generating Facility is operated in parallel with PG&E's Distribution System. Any deviation from these requirements may occur only when the Parties have agreed to such deviations in writing.
- 5.9 If Producer declares that its Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PUC (or any successor definition of Cogeneration (Cogeneration Requirements)), Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet such Cogeneration Requirements, per Appendix D of this Agreement.
- 5.10 If Producer's Generating Facility includes any energy storage device(s), Distribution Provider may provide requirements that must be met by the Producer prior to initiating Parallel Operation with PG&E's Distribution System and throughout the term of this Agreement, including but not limited to the requirements set forth in Appendix I of this Agreement.

5.11 Smart Inverters

For Producer applications received on or after September 9, 2017, the Producer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Producer's inverter. Producer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Producer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Producer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at:

<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

Verification of compliance with such requirements shall be provided by the Producer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Producer has submitted the interconnection application prior to September 9, 2017,
- (c) the Producer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>1</sup> no later than March 31, 2018, or
- (d) the Producer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Producer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### 6. INTERCONNECTION FACILITIES

- 6.1 Producer and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Distribution System, personnel, and other persons from damage or injury, which may be caused by the operation of Producer's Generating Facility.

---

<sup>1</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments,
2. A completed signed Interconnection Agreement,
3. Evidence of the Producer final inspection clearance from the governmental authority having jurisdiction over the generating system.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

- 6.2 Producer shall be solely responsible for the costs, design, purchase, construction, operation, and maintenance of the Interconnection Facilities that Producer owns.
- 6.3 If the provisions of PG&E's Rule 21, or any other tariff or rule approved by the Commission, requires PG&E to own and operate a portion of the Interconnection Facilities, Producer and PG&E shall promptly execute a Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix C.
- 6.4 The Interconnection Facilities may include Net Generation Output Metering for determination of standby charges and applicable non-bypassable charges, and/or other meters required for PG&E's administration and billing pursuant to PG&E's tariffs for net energy metering.

### 7. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

### 8. INSURANCE

- 8.1 In connection with Producer's performance of its duties and obligations under this Agreement, Producer shall maintain, during the term of this 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



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

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 PG&E.

Such general liability 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."

- 8.2 The general liability insurance required in Section 8.1 shall, by endorsement to the policy or policies, (a) include PG&E as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that PG&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 PG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.3 If Producer's Generating Facility employs solely of Renewable Electrical Generation Facilities the requirements of Section 8.1 shall be waived. However, to the extent that Producer has currently in force Commercial General Liability or Personal (Homeowner's) Liability insurance, Producer agrees that it will maintain such insurance in force for the duration of this Agreement in no less than amounts currently in effect. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operations. Such insurance shall provide for thirty (30) calendar days written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.4 Evidence of the insurance required in Section 8.2 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- 8.5 Producer agrees to furnish the required certificates and endorsements to PG&E prior to Initial Operation. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.
- 8.6 If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 8.1 through 8.4:
- (a) Producer shall provide to, PG&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 8.1.
  - (b) If Producer ceases to self-insure to the level required hereunder, or if



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

Producer are unable to provide continuing evidence of Producer's ability to self-insure, Producer agrees to immediately obtain the coverage required under Section 8.1.

- 8.7 All insurance certificates, statements of self-insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGIContractMgmt@pge.com

## 9. NOTICES

- 9.1 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 address specified below:

If to PG&E: Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGIContractMgmt@pge.com

If to Producer:

[Contact information to be supplied]  
Customer-Generator Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Phone: (\_\_\_\_) \_\_\_\_\_  
FAX: (\_\_\_\_) \_\_\_\_\_

- 9.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 9.1.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

- 9.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

### 10. REVIEW OF RECORDS AND DATA

- 10.1 PG&E shall have the right to review and obtain copies of Producer'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 Producer's Generating Facility or its interconnection with PG&E's Distribution System.
- 10.2 Producer authorizes to release to the California Energy Commission (CEC) information regarding Producer's facility, including customer name, location, size, and operational characteristics of the unit, as requested from time to time pursuant to the CEC's rules and regulations.
- 10.3 As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Producer authorizes PG&E to release any and all information contained in its application, and addendum if applicable for interconnection to the State Entities identified in this Section 10.3 without further notification or consent.

### 11. ASSIGNMENT

Producer shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Producer makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Producer's assignment of this Agreement.

### 12. NON-WAIVER

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.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)**

---

**13. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E's  
TARIFF SCHEDULES AND RULES**

- 13.1 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.
- 13.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.
- 13.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by, PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.
- 13.4 Notwithstanding any other provisions of this Agreement, PG&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.

**14. AMENDMENT AND MODIFICATION**

This Agreement can only be amended or modified in writing, signed by both Parties.

**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.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)**

---

**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.

**PACIFIC GAS AND ELECTRIC  
COMPANY**

_____ <i>(Company Name)</i>	_____
_____ <i>(Signature)</i>	_____ <i>(Signature)</i>
_____ <i>(Print Name)</i>	_____ <i>(Print Name)</i>
_____ <i>(Title)</i>	_____ <i>(Title)</i>
_____ <i>(Date)</i>	_____ <i>(Date)</i>



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix A**

---

**APPENDIX A**

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

(Note: The Description of the Generating Facility should include, but not limited to, for each of the technology types of generation: spatial configuration, net and gross nameplate ratings, manufacturer, if the generators are certified under Rule 21, protection equipment, and intended mode of operation [i.e. non-export: export up to 2 seconds; inadvertent export: export between 2 seconds and 60 seconds; and continuous export: export greater than 60 seconds]. Additionally points of interconnection with PG&E, as well as locations and type of protection equipment and disconnect switches should be identified.)

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix B**

---

**APPENDIX B**

**RULES “2” AND “21”**

(Note: PG&E’s electric Rules “2” and “21” may be subject to such changes or modifications by the Commission as the Commission may, from time to time, direct in the exercise of its jurisdiction. PG&E’s tariffs, including Rules “2” and “21” can be accessed via the PG&E website at [www.pge.com/tariffs](http://www.pge.com/tariffs). Upon request, PG&E can provide copies to Producer of Rules “2” and “21.”)



*Pacific Gas and  
Electric Company®*

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)**

**Appendix C**

---

**APPENDIX C (If Applicable)**

**RULE 21 “SPECIAL FACILITIES” AGREEMENT  
(Formed between the Parties)**

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix D**

---

**APPENDIX D (When applicable)**

**PRODUCER’S WARRANTY THAT THE GENERATING FACILITY IS A  
“COGENERATION FACILITY” PURSUANT TO SECTION 216.6 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PU Code (Cogeneration Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, the Generating Facility shall continue to meet the Cogeneration Requirements. If Producer becomes aware that its Generating Facility has ceased to meet the Cogeneration Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer’s Generating Facility may no longer meet the Cogeneration Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Cogeneration Requirements within 15 business days of PG&E’s request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer’s Generating Facility and/or require documentation from Producer to monitor the Generating Facility’s compliance with the Cogeneration Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Cogeneration Requirements, then the Cogeneration status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E’s reasonable satisfaction that the Generating Facility meets the requirements for a Cogeneration facility (the Cogeneration Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Cogeneration Status Change and provide Notice to Producer of the Cogeneration Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Cogeneration Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E shall invoice the Producer’s electric service account through which the Generating Facility is Interconnected with PG&E’s Distribution System for Competition Transition Charges (CTCs) that were not previously billed during the period between the effective date of the Status Change and the date of the Notice in reliance upon Producer’s representations that the Generating Facility complied with the Cogeneration Requirements and therefore was eligible for the exemption from CTCs available under Section 372 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer’s receipt of such invoice.

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix E**

---

**APPENDIX E (When applicable)**

**PRODUCER’S WARRANTY THAT THE GENERATING FACILITY IS A  
“DISTRIBUTED ENERGY RESOURCES GENERATION” FACILITY  
PURSUANT TO SECTION 353.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the tariff charge exemption available under Section 353.3 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Distributed Energy Resources Generation as such term is used in Section 353.1 of the PU Code (DERG Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the DERG Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the DERG Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer’s Generating Facility may no longer meet the DERG Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the DERG Requirements within 15 business days of PG&E’s request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer’s Generating Facility and/or require documentation from Producer to monitor the Generating Facility’s compliance with the DERG Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the DERG Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E’s reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the DERG Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the DERG Status Change and provide Notice to Producer of the DERG Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the DERG Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the DERG Requirements. PG&E shall invoice the Producer electric service account through which the Generating Facility is Interconnected with PG&E’s Distribution System for any tariff charges that were not previously billed during the period between the effective date of the DERG Status Change and the date of the Notice in reliance upon Producer’s representations that the Generating Facility complied with the DERG Requirements and therefore was eligible for the exemption from tariff charges available under Section 353.3 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer’s receipt of such invoice.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix G**

---

**APPENDIX G (When applicable)**

**PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS AN  
ELIGIBLE BIOGAS ELECTRICAL GENERATING FACILITY PURSUANT  
TO SECTION 2827.9 OF THE CALIFORNIA PUBLIC UTILITIES CODE**

Producer has declared that the Generating Facility meets the requirements for an Eligible Biogas Electrical Generating Facility, as defined in Section 2827.9 of the California Public Utilities Code (Eligibility Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the Eligibility Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the Eligibility Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer's Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Eligibility Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the Eligibility Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the Eligibility Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Producer of the Eligibility Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Producer for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM-BIO, Experimental Biogas Net Energy Metering.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix H**

**Appendix H**

**SCHEDULE NEM CUSTOMER-GENERATOR WARRANTY THAT IT  
MEETS THE REQUIREMENTS FOR AN ELIGIBLE CUSTOMER-  
GENERATOR AND IS AN ELIGIBLE RENEWABLE ELECTRICAL  
GENERATION FACILITY PURSUANT TO SECTION 2827 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

(This Affidavit needs to be completed and submitted to PG&E by the Customer-Generator every time a new NEM interconnection agreement for a Renewable Electrical Generation Facility is executed or whenever there is a change in ownership of the Generating Facility).

Circle Type of Renewable Electrical Generation Facility:

biomass	geothermal	municipal solid waste
solar thermal	fuel cell	landfill gas
small hydroelectric generation	ocean wave	digester gas
ocean thermal	tidal current	

NEM Customer-Generator (Customer) declares that

- (1) it meets the requirements to be an “Eligible Customer-Generator” and its Generating Facility.
- (2) (a) meets the requirements of an “Renewable Electrical Generation Facility”, as defined in Section 2827(b)(5) of the California Public Utilities Code and (b) satisfies the definitions of the renewable resource for the Renewable Electrical Generation Facility in the latest version of the California Energy Commission’s (CEC’s) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook. <sup>2</sup> (Eligibility Requirements).

<sup>2</sup> The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix H**

---

Included in these eligibility requirements (check as applicable) pursuant to Public Utilities Code section 2827(b)(5) and Public Resource Code Section 25741 paragraph 1(a):

- If the Renewable Electrical Generation Facility is a fuel cell, or otherwise uses renewable biogas or otherwise, Eligible Customer-Generator warrants that the fuel cell is powered solely with renewable fuel.
- If the Renewable Electrical Generation Facility is a Small hydroelectric generating facility, customer warrants that it will not cause an adverse impact on instream beneficial uses, nor cause a change in the volume or timing of streamflow).

If the Customer uses biogas or a renewable fuel as the fuel for their Renewable Electrical Generation Facility:

- Eligible Customer-Generator warrants that the Renewable Electrical Generation Facility is powered solely with renewable fuel.

Eligible Customer-Generator warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, Eligible Customer-Generator and the Generating Facility shall continue to meet the Eligibility Requirements. If Eligible Customer-Generator or the Generating Facility ceases to meet the Eligibility Requirements, Eligible Customer-Generator shall promptly provide PG&E with Notice of such change pursuant to Section 11 of this Agreement. If at any time during the term of this Agreement PG&E determines, at its reasonable discretion, that Eligible Customer-Generator or Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Eligible Customer-Generator to provide evidence, that Eligible Customer-Generator and/or Generating Facility continues to meet the Eligibility Requirements, within 20 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Eligible Customer-Generator to monitor the Generating Facility's compliance with the Eligibility Requirements – PG&E will provide a minimum of 10 business days notice to the Eligible Customer-Generator should PG&E decide an inspection is required. If PG&E determines in its reasonable judgment that Eligible Customer-Generator either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Eligibility Status shall be deemed ineffective until such time as Eligible Customer-Generator again demonstrates to PG&E's reasonable satisfaction that Eligible Customer-Generator meets the requirements for an Eligible Customer-Generator and/or the Generating Facility meets the requirements for a Eligible electrical generating facility (the Eligibility Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Eligible Customer-Generator of the Eligibility Status Change pursuant to Section 11 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Eligible Customer-Generator and/or Generating Facility first ceased to meet the



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix H**

---

Eligibility Requirements. PG&E shall invoice the Eligible Customer-Generator for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Eligible Customer-Generator's representations that Eligible Customer-Generator and/or Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM Net Energy Metering Service for Eligible Customer-Generators.

Any amounts to be paid or refunded by Eligible Customer-Generator, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Eligible Customer-Generator's receipt of such invoice.

Unless otherwise ordered by the CPUC, this Agreement at all times shall be subject to such modifications as the CPUC may direct from time to time in the exercise of its jurisdiction.

I certify the above is true and correct,

Customer-Generator Signature: \_\_\_\_\_

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

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

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



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

Appendix I

APPENDIX I (If Applicable)

OPERATING REQUIREMENTS FOR ENERGY STORAGE DEVICE(S)

The following Operating Requirement(s) apply to the charging functions of the Generating Facility:

- Producers storage device(s) will not consume power from Distribution Provider's Distribution System at any time.
Producers storage device(s) will not cause the Host Load to exceed its normal peak demand.
To avoid upgrades or other technical mitigation items identified in the interconnection process, Producer has chosen the following Generating Facility operating constraint(s):

For the annual period between [Month/Day] and [Month/Day] And during the hours of [Month/Day] The storage device(s) will consume no more than a total of kW from the Distribution System. This operating constraint voids the need for the following specific mitigation scope:

Table with 6 empty rows for specifying mitigation scope.

No other charging function limitation is required for this Generating Facility except the requirements above. Producer will be responsible for the costs of the corresponding upgrades or other technical mitigations if at any time the Producer elects to forego or violates the operating requirement.

Consistent with current load service Rules, Distribution Provider is not required to reserve capacity for load. Producer is responsible to contact the utility for any modification to its equipment or change in operations that may result in increased load demand per Electric Rule 3.C.

If any operating requirement is specified above, Distribution Provider reserves the right to ask for data at the 15-minute interval level at any time to verify that the operating requirement is being met. Distribution Provider will make such request via a written notice no more than once per calendar quarter. Producer must provide such data within 30 Calendar Days of the written request.

If the Generating Facility fails to adhere to the operating requirements at any time, it will be disconnected immediately in accordance with Rule 21 Section D.9 and not reconnected until an approved mitigation (e.g., supervising controls) is in place as determined by Distribution Provider.



**Electric Sample Form No. 79-1069-02**  
Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT)

Sheet 1

**Please Refer to Attached  
Sample Form**

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT )

---

This *Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT)* (Agreement) is entered into by and between \_\_\_\_\_ (Producer), and Pacific Gas and Electric Company (PG&E) a California Corporation. Producer and PG&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 Producer to interconnect and operate a Generating Facility in parallel with PG&E’s Electric System to serve the electrical loads at the location identified in Section 2.4 (or for the qualifying energy where permitted under Section 218 of the California Public Utilities Code (PUC). The Generating Facility must be a combination of generators, but must include at least one NEM2 “Eligible customer-generator.” (as defined in PG&E’s Schedule NEM2). “Eligible customer-generator” may also include other eligible customer-generators such as NEM2 Renewable Electrical Generation Facility(ies), Renewable Electrical Generation Facility(ies) (as defined in PG&E’s Schedule NEM) or Eligible Fuel Cell Electrical Generating Facility(ies) (as defined in PG&E’s Schedule NEMFC), as allowed under Special Condition 4 of Schedule NEM2.

- 1.1. This Agreement provides for Producer to operate the Eligible Generator(s) pursuant to the provisions of Section 2827.1 et seq. of the PU Code and the applicable PG&E tariffs for net energy metering. This Agreement also provides for Producer to operate its Non-Eligible Generator(s). This Agreement does not provide for retail electrical service by PG&E to Producer. Such arrangements must be made separately between PG&E and Producer.
- 1.2. This Agreement does not address Producer’s account billing and payment for energy consumption. For the Generating Facility as specified in Section 2 of this Agreement, please refer to the applicable PG&E net-energy-metered (NEM and/or NEM2) tariff schedules for billing and payment protocol.

## 2. SUMMARY AND DESCRIPTION OF PRODUCER’S GENERATING FACILITY

- 2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Producer’s Generating Facility and loads are interconnected with PG&E’s Electric System, are attached to and made a part of this Agreement. (Supplied by Producer as Appendix A).



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Producer's electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service account used to interconnect the Generating Facility with PG&E's Electric System:

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

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

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

2.5 The Gross Nameplate Rating of the Generating Facility is:

2.5.1 Eligible Generator(s):

Table with 2 columns and 8 rows listing generator types and their kW ratings, including biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, and small hydroelectric generation.

2.5.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.5.3 Total Gross Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.6 The Net Nameplate Rating of the Generating Facility is:



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

## 2.6.1 Eligible Renewable Electrical Generation Facility Generator(s):

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	Storage/Batteries (NEM eligible only) _____ amp hours _____ inverter kW

2.6.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.6.3 **Total Net** Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.7 The maximum level of power that may be exported by the Generating Facility to PG&E's Electric System is expected to be:

2.7.1 Eligible Generator(s):

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	Storage/Batteries (NEM eligible only) _____ amp hours _____ inverter kW

2.7.2 Non-Eligible Generator(s): \_\_\_\_\_ kW



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

2.7.3 Total maximum level of power that may be exported by the Generating Facility: \_\_\_\_\_ kW

2.8 the purpose of securing the Competition Transition Charge exemption available under Section 372 of the California Public Utilities Code (PUC), Producer hereby declares that the portion of the Generating Facility that is generating in a combined heat and power mode
[ ] does / [ ] does not meet the requirements for Cogeneration as such term is used in Section 216.6 of the California Public Utilities Code.

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.

2.10 For the purpose of securing certain tariff charge exemptions available under the PU Code, Producer hereby declares the following for each Generator technology of the Generating Facility:

Requirements for Distributed Energy Resource Generation as such term is used in Section 353.1 of the PU Code.

Table with 4 columns: Technology, are met, are not met, and checkboxes. Rows include biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, small hydroelectric generation, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, biogas digester (under NEMBIO), and fuel cell (under NEMFC) other technology.

2.11 Customer-Generator's otherwise-applicable-rate schedule as of the execution of this Agreement is: \_\_\_\_\_



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

### 3. DOCUMENTS INCLUDED; DEFINED TERMS

- 3.1 This Agreement includes the following exhibits which are specifically incorporated herein and made a part of this Agreement.
- Appendix A - Description of Generating Facility and Single-Line Diagram (Supplied by Producer).
  - Appendix B - Web-site references to Rules 2 and 21 and other selected rules and tariffs of PG&E (Supplied by PG&E).
  - Appendix C - A Copy of *PG&E's Agreement for Installation or Allocation of Special Facilities for Parallel Operation of Nonutility-Owned Generation and/or Electrical Standby Service (Form 79-280)* (Special Facility Agreement), if applicable, (Formed by the Parties).
  - Appendix D - Producer's warranty that the Generating Facility meets the requirements for a Cogeneration facility pursuant to Section 216.6 of the PU Code (when applicable).
  - Appendix E - Producer's warranty that the Generating Facility meets the requirements for Distributed Energy Resources Generation as defined in Section 353.1 of the PU Code (when applicable).
  - Appendix F - NEM2 Load Aggregation Customer-Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel
  - Appendix G - Producer's warranty that it meets the requirements for an Eligible Biogas Digester Electrical Generating Facility, (applicable Generator(s) only) as defined in Section 2827.9 of the PU Code (when applicable).
  - Appendix H - Schedule NEM and/or NEM2 Customer-Generator Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility Pursuant to Section 2827.1 of the California Public Utilities Code.
  - Appendix I -Operating Requirements for Energy Storage Device(s) (when applicable).
  - Appendix J - NEMFC Customer Agreement Starting January 1, 2017 Until California Air Resources Board Emission Standard is Established.
- 3.2 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 PG&E's Rule 21 Section C.

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

## 4. TERM AND TERMINATION

- 4.1 This Agreement shall become effective as of the last date entered in Section 16, below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:
- (a) The Parties agree in writing to terminate the Agreement, or
  - (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service account through which Producer's Generating Facility is interconnected to PG&E's Electric System is closed or terminated, or
  - (c) At 12:01 A.M. on the 61<sup>st</sup> day after Producer or PG&E provides written Notice pursuant to Section 9 below to the other Party of Producer's or PG&E's intent to terminate this Agreement.
- 4.2 Producer may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for one or more of the following reasons:
- (a) A change in applicable rules, tariffs, and regulations, as approved or directed by the California Public Utilities Commission "Commission," or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
  - (b) Unless otherwise agreed to in writing by the Parties, Producer fails to take all corrective actions specified in PG&E's Notice that Producer's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Producer fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to 120 days after the date set forth in Section 2.9, above, as the Generating Facility's expected date of Initial Operation; or,
  - (d) Producer abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its reasonable opinion, the Generating Facility is non-operational and Producer does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Producer's apparent abandonment of the Generating Facility affirming Producer's intent and ability to continue to operate the Generating Facility.
  - (e) Producer makes a change to the physical configuration of the Generating Facility, as declared in Section 2 and Appendix A of this Agreement.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

- 4.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 4.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

### 5. GENERATING FACILITY AND OPERATING REQUIREMENTS

- 5.1 Except for that energy delivered to PG&E's Electric System, electric energy produced by Producer's Generating Facility shall be used solely to serve electrical loads connected to the electric service account that PG&E uses to interconnect Producer's Generating Facility (or, where permitted under Section 218 of the PUC, the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits). Producer shall not use the Generating Facility to serve electrical loads that will cause Producer to be considered an "electrical corporation" as such term is used in Section 218 of the California Public Utilities Code.
- 5.2 Unless otherwise agreed upon in writing by the Parties, this Agreement does not provide for, nor otherwise require PG&E to purchase, transmit, distribute, or store the electrical energy produced by Producer's Generating Facility.
- 5.3 Producer is responsible for operating the Generating Facility in compliance with all of PG&E's tariffs, including but not limited to PG&E's Rule 21 and applicable NEM-2 tariff schedules, and applicable safety and performance standards established by the National Electric Code, Institute of Electrical and Electronic Engineers, accredited testing laboratories such as Underwriters Laboratories, rules of the Commission regarding safety and reliability, and any other regulations and laws governing the Interconnection of the Generating Facility.
- 5.4 Producer shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 5.3, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Producer shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Producer's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Producer's Generating Facility.
- 5.5 Producer shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided per the timelines established by the applicable PUC 2827 section, or by Rule 21. Such approval will be provided after PG&E's receipt of: (1) a completed Generating Facility Interconnection Application (Form 79-1174-02),



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

including all supporting documents and payments as described in the Application; (2) any required NEM supplemental application forms; (3) a signed and completed Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT) (Form 79-1069-02); (4) a copy of the Producer's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility; and (5) submission of all applicable payments for reviews, studies, Interconnection Facilities, and Electric System Modifications. Such approval will not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Producer shall notify PG&E at least five (5) business days prior to the initial testing.

- 5.6 In no event shall the delivery of the maximum electric power to PG&E's Electric System exceed the amount or other limitations specified in Section 2 and Appendix A of this Agreement. If Producer does not regulate its Generating Facility in compliance with the limitations set forth in this Agreement, PG&E may require Producer to disconnect its Generating Facility from PG&E's Electric System until Producer demonstrates to PG&E's reasonable satisfaction that Producer has taken adequate measures to regulate the output of its Generating Facility and control its deliveries of electric power to PG&E. Further, should PG&E determine that Producer's operation of the Generating Facility is causing an unsafe condition or is adversely affecting PG&E's ability to utilize its Electric System in any manner, even if Producer's deliveries of electric power to PG&E's Electric System are within the limitations specified in this Agreement, PG&E may require Producer to temporarily or permanently reduce or cease deliveries of electric power to PG&E's Electric System. Alternatively, the Parties may agree to other corrective measures so as to mitigate the effect of electric power flowing from the Generating Facility to PG&E's Electric System. Producer's failure to comply with the terms of this Section shall constitute a material breach of this Agreement and PG&E may initiate termination in accordance with the terms of Section 4.2(b).
- 5.7 Producer shall not deliver reactive power to PG&E's Electric System unless the Parties have agreed otherwise in writing.
- 5.8 The Generating Facility shall be operated with all of Producer's Protective Functions in service whenever the Generating Facility is operated in parallel with PG&E's Electric System. Any deviation from these requirements may occur only when the Parties have agreed to such deviations in writing.
- 5.9 If Producer declares that its Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PUC (or any successor definition of Cogeneration (Cogeneration Requirements)), Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet such Cogeneration Requirements, per Appendix D of this Agreement.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

- 5.10 In order to promote the safety and reliability of the customer Generating Facility, the applicant certifies that as a part of each interconnection request for a NEM and/or NEM2 Generating Facility, that all major solar system components (if any) are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.
- 5.11 Producer certifies as a part of each interconnection request for a NEM and/or NEM2 Eligible Generating Facility that
- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
  - (ii) a 10-year service warranty or executed “agreement” has been provided ensuring proper maintenance and continued system performance.
- 5.12 Producers on this tariff must pay for the interconnection of their NEM2 Generation Facilities as provided in Electric Rule 21, pursuant to Decision 16-01-044.
- 5.13 If Producer’s Generating Facility includes any energy storage device(s), Distribution Provider may provide requirements that must be met by the Producer prior to initiating Parallel Operation with PG&E’s Distribution System and throughout the term of this Agreement, including but not limited to the requirements set forth in Appendix I of this Agreement.
- 5.14 Smart Inverters
- For Producer applications received on or after September 9, 2017, the Producer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.
- Distribution Provider may require a field verification of the Producer’s inverter. Producer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Producer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Producer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.
- (Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at:
- <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)
- Verification of compliance with such requirements shall be provided by the Producer upon request by PG&E in accordance with PG&E’s Electric Rule 21.

## **GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)**

---

An “existing inverter” is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Producer has submitted the interconnection application prior to September 9, 2017,
- (c) the Producer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>1</sup> no later than March 31, 2018, or
- (d) the Producer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All “existing inverters” are not required to be Smart Inverters and are only subject to Section H of Rule 21. Producer replacing an “existing inverter” certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### **6. INTERCONNECTION FACILITIES**

- 6.1 Producer and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E’s Electric System, personnel, and other persons from damage or injury, which may be caused by the operation of Producer’s Generating Facility.
- 6.2 Producer shall be solely responsible for the costs, design, purchase, construction, operation, and maintenance of the Interconnection Facilities that Producer owns.
- 6.3 If the provisions of PG&E’s Rule 21, or any other tariff or rule approved by the Commission, requires PG&E to own and operate a portion of the Interconnection Facilities, Producer and PG&E shall promptly execute an Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the

---

<sup>1</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments,
- 2. A completed signed Interconnection Agreement,
- 3. Evidence of the Producer final inspection clearance from the governmental authority having jurisdiction over the generating system.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix C.

- 6.4 The Interconnection Facilities may include Net Generation Output Metering for determination of standby charges and applicable non-bypassable charges, and/or other meters required for PG&E's administration and billing pursuant to PG&E's tariffs for net energy metering.

### 7. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

### 8. INSURANCE

8.1 In connection with Producer's performance of its duties and obligations under this Agreement, Producer shall maintain, during the term of this 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 PG&E.

Such general liability 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."

8.2 The general liability insurance required in Section 8.1 shall, by endorsement to the policy or policies, (a) include PG&E as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that PG&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



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

for thirty (30) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

- 8.3 If Producer's Generating Facility employs solely of Renewable Electrical Generation Facilities the requirements of Section 8.1 shall be waived. However, to the extent that Producer has currently in force Commercial General Liability or Personal (Homeowner's) Liability insurance, Producer agrees that it will maintain such insurance in force for the duration of this Agreement in no less than amounts currently in effect. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operations. Such insurance shall provide for thirty (30) calendar days written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.4 Evidence of the insurance required in Section 8.2 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- 8.5 Producer agrees to furnish the required certificates and endorsements to PG&E prior to Initial Operation. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.
- 8.6 If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 8.1 through 8.4:
- (a) Producer shall provide to, PG&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 8.1.
  - (b) If Producer ceases to self-insure to the level required hereunder, or if Producer are unable to provide continuing evidence of Producer's ability to self-insure, Producer agrees to immediately obtain the coverage required under Section 8.1.
- 8.7 All insurance certificates, statements of self-insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGContractMgmt@pge.com

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

## 9. NOTICES

9.1 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 address specified below:

If to PG&E: Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGContractMgmt@pge.com

If to Producer:

Customer-Generator Name: \_\_\_\_\_

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

City: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_

9.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 9.1.

9.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

## 10. REVIEW OF RECORDS AND DATA

10.1 PG&E shall have the right to review and obtain copies of Producer'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 Producer's Generating Facility or its interconnection with PG&E's Electric System.

10.2 Producer authorizes to release to the California Energy Commission (CEC) information regarding Producer's facility, including customer name, location, size, and operational characteristics of the unit, as requested from time to time pursuant to the CEC's rules and regulations.

10.3 As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Producer authorizes PG&E to release any and all information contained in its application, and addendum if applicable for interconnection to the State Entities identified in this Section 10.3 without further notification or consent.

### 11. ASSIGNMENT

Producer shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Producer makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Producer's assignment of this Agreement.

### 12. NON-WAIVER

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.

### 13. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E's TARIFF SCHEDULES AND RULES

13.1 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.

13.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.

13.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by, PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.

13.4 Notwithstanding any other provisions of this Agreement, PG&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.

### 14. AMENDMENT AND MODIFICATION

This Agreement can only be amended or modified in writing, signed by both Parties.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)**

---

**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.

_____	<b>PACIFIC GAS AND ELECTRIC COMPANY</b>
<i>(Company Name)</i>	_____
_____	_____
<i>(Signature)</i>	<i>(Signature)</i>
_____	_____
<i>(Print Name)</i>	<i>(Print Name)</i>
_____	_____
<i>(Title)</i>	<i>(Title)</i>
_____	_____
<i>(Date)</i>	<i>(Date)</i>



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)**

**Appendix A**

---

**APPENDIX A**

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

(Note: The Description of the Generating Facility should include, but not limited to, for each of the technology types of generation: spatial configuration, net and gross nameplate ratings, manufacturer, if the generators are certified under Rule 21, protection equipment, and intended mode of operation [i.e. non-export: export up to 2 seconds; inadvertent export: export between 2 seconds and 60 seconds; and continuous export: export greater than 60 seconds]. Additionally points of interconnection with PG&E, as well as locations and type of protection equipment and disconnect switches should be identified.)

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix B**

---

**APPENDIX B**

**RULES “2” AND “21”**

(Note: PG&E’s electric Rules “2” and “21” may be subject to such changes or modifications by the Commission as the Commission may, from time to time, direct in the exercise of its jurisdiction. PG&E’s tariffs, including Rules “2” and “21” can be accessed via the PG&E website at [www.pge.com/tariffs](http://www.pge.com/tariffs). Upon request, PG&E can provide copies to Producer of Rules “2” and “21.”)



*Pacific Gas and  
Electric Company®*

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)**

**Appendix C**

---

**APPENDIX C (If Applicable)**

**RULE 21 “SPECIAL FACILITIES” AGREEMENT  
(Formed between the Parties)**

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix D**

---

**APPENDIX D (When applicable)**

**PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS A  
"COGENERATION FACILITY" PURSUANT TO SECTION 216.6 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PU Code (Cogeneration Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, the Generating Facility shall continue to meet the Cogeneration Requirements. If Producer becomes aware that its Generating Facility has ceased to meet the Cogeneration Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer's Generating Facility may no longer meet the Cogeneration Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Cogeneration Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the Cogeneration Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Cogeneration Requirements, then the Cogeneration status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Cogeneration facility (the Cogeneration Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Cogeneration Status Change and provide Notice to Producer of the Cogeneration Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Cogeneration Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E shall invoice the Producer's electric service account through which the Generating Facility is Interconnected with PG&E's Electric System for Competition Transition Charges (CTCs) that were not previously billed during the period between the effective date of the Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Cogeneration Requirements and therefore was eligible for the exemption from CTCs available under Section 372 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix E**

---

**APPENDIX E (When applicable)**

**PRODUCER’S WARRANTY THAT THE GENERATING FACILITY IS A  
“DISTRIBUTED ENERGY RESOURCES GENERATION” FACILITY  
PURSUANT TO SECTION 353.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the tariff charge exemption available under Section 353.3 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Distributed Energy Resources Generation as such term is used in Section 353.1 of the PU Code (DERG Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the DERG Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the DERG Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer’s Generating Facility may no longer meet the DERG Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the DERG Requirements within 15 business days of PG&E’s request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer’s Generating Facility and/or require documentation from Producer to monitor the Generating Facility’s compliance with the DERG Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the DERG Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E’s reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the DERG Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the DERG Status Change and provide Notice to Producer of the DERG Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the DERG Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the DERG Requirements. PG&E shall invoice the Producer electric service account through which the Generating Facility is Interconnected with PG&E’s Electric System for any tariff charges that were not previously billed during the period between the effective date of the DERG Status Change and the date of the Notice in reliance upon Producer’s representations that the Generating Facility complied with the DERG Requirements and therefore was eligible for the exemption from tariff charges available under Section 353.3 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer’s receipt of such invoice.

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

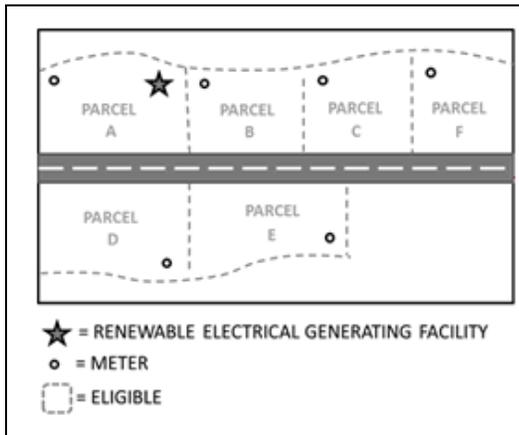
## Appendix F

### APPENDIX F (When applicable)

#### NEM2 LOAD AGGREGATION APPENDIX (If Applicable) CUSTOMER-GENERATOR DECLARATION WARRANTING NEM2 AGGREGATION IS LOCATED ON SAME OR ADJACENT OR CONTIGUOUS PROPERTY TO GENERATOR PARCEL

In accordance with Schedule NEM2, I, Customer-Generator represent and warrant under penalty of perjury that:

- 1) The total annual output in kWh of the generator is less than or equal to 110% (for solar and/or wind systems equal to or less than 30 kW) or 100% (for all other technologies and solar and/or wind systems greater than 30 kW) of the annual aggregated electrical load in kWh of the meters associated with the generator account, including the load on the generating account itself (before being offset by the generator); and
- 2) Each of the aggregated account meters associated with this NEM2 generator account are located either:
  - (i) on the property where the renewable electrical generation facility is located, or
  - (ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator.



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

- 3) PG&E reserves the right to request a parcel map to confirm the property meets the requirements of 2) above; and
- 4) Customer-Generator agrees to notify PG&E if there is any change of status that makes any of the participating meters ineligible for meter aggregation to ensure that only eligible meters are participating; PG&E will require an updated Appendix and Declaration form; and
- 5) Upon request by PG&E, I agree to provide documentation that all aggregated meters meet the requirements of Rate Schedule NEM2 Special Condition 6 including but not limited to parcel maps and ownership records.

\_\_\_\_\_  
*Customer Generator's Name*

\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Type/Print Name*

\_\_\_\_\_  
*Title*

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix G**

---

**APPENDIX G (When applicable)**

**PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS AN  
ELIGIBLE BIOGAS ELECTRICAL GENERATING FACILITY PURSUANT  
TO SECTION 2827.9 OF THE CALIFORNIA PUBLIC UTILITIES CODE**

Producer has declared that the Generating Facility meets the requirements for an Eligible Biogas Electrical Generating Facility, as defined in Section 2827.9 of the California Public Utilities Code (Eligibility Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the Eligibility Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the Eligibility Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer's Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Eligibility Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the Eligibility Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the Eligibility Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Producer of the Eligibility Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Producer for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM-BIO, Experimental Biogas Net Energy Metering.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix H**

**Appendix H**

**SCHEDULE NEM2 CUSTOMER-GENERATOR WARRANTY THAT IT  
MEETS THE REQUIREMENTS FOR AN ELIGIBLE CUSTOMER-  
GENERATOR AND IS AN ELIGIBLE RENEWABLE ELECTRICAL  
GENERATION FACILITY PURSUANT TO SECTION 2827.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

(This Affidavit needs to be completed and submitted to PG&E by the Customer-Generator every time a new NEM2 interconnection agreement for a Renewable Electrical Generation Facility is executed or whenever there is a change in ownership of the Generating Facility).

Check Type of Renewable Electrical Generation Facility:

<input type="checkbox"/> biomass	<input type="checkbox"/> geothermal	<input type="checkbox"/> municipal solid waste
<input type="checkbox"/> solar thermal	<input type="checkbox"/> fuel cell	<input type="checkbox"/> landfill gas
<input type="checkbox"/> small hydroelectric generation	<input type="checkbox"/> ocean wave	<input type="checkbox"/> digester gas
<input type="checkbox"/> ocean thermal	<input type="checkbox"/> tidal current	<input type="checkbox"/> Storage/Batteries _____ amp hours _____ inverter kWh

NEM2 Customer-Generator (Customer) declares that

- (1) it meets the requirements to be an “Eligible Customer-Generator” and its Generating Facility.
- (2) (a) meets the requirements of an “Renewable Electrical Generation Facility”, as defined in Section 2827(b)(5) of the California Public Utilities Code and (b) satisfies the definitions of the renewable resource for the Renewable Electrical Generation Facility in the latest version of the California Energy Commission’s (CEC’s) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook. <sup>2</sup> (Eligibility Requirements).

<sup>2</sup> The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix H**

---

Included in these eligibility requirements (check as applicable) pursuant to Public Utilities Code section 2827(b)(5) and Public Resource Code Section 25741 paragraph 1(a):

- If the Renewable Electrical Generation Facility is a fuel cell, or otherwise uses renewable biogas or otherwise, Eligible Customer-Generator warrants that the fuel cell is powered solely with renewable fuel.
- If the Renewable Electrical Generation Facility is a Small hydroelectric generating facility, customer warrants that it will not cause an adverse impact on instream beneficial uses, nor cause a change in the volume or timing of streamflow).

If the Customer uses biogas or a renewable fuel as the fuel for their Renewable Electrical Generation Facility:

- Eligible Customer-Generator warrants that the Renewable Electrical Generation Facility is powered solely with renewable fuel.

Eligible Customer-Generator warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, Eligible Customer-Generator and the Generating Facility shall continue to meet the Eligibility Requirements. If Eligible Customer-Generator or the Generating Facility ceases to meet the Eligibility Requirements, Eligible Customer-Generator shall promptly provide PG&E with Notice of such change pursuant to Section 11 of this Agreement. If at any time during the term of this Agreement PG&E determines, at its reasonable discretion, that Eligible Customer-Generator or Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Eligible Customer-Generator to provide evidence, that Eligible Customer-Generator and/or Generating Facility continues to meet the Eligibility Requirements, within 20 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Eligible Customer-Generator to monitor the Generating Facility's compliance with the Eligibility Requirements – PG&E will provide a minimum of 10 business days notice to the Eligible Customer-Generator should PG&E decide an inspection is required. If PG&E determines in its reasonable judgment that Eligible Customer-Generator either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Eligibility Status shall be deemed ineffective until such time as Eligible Customer-Generator again demonstrates to PG&E's reasonable satisfaction that Eligible Customer-Generator meets the requirements for an Eligible Customer-Generator and/or the Generating Facility meets the requirements for a Eligible electrical generating facility (the Eligibility Status Change).



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix H**

---

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Eligible Customer-Generator of the Eligibility Status Change pursuant to Section 11 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Eligible Customer-Generator and/or Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Eligible Customer-Generator for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Eligible Customer-Generator's representations that Eligible Customer-Generator and/or Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM2 Net Energy Metering Service for Eligible Customer-Generators.

Any amounts to be paid or refunded by Eligible Customer-Generator, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Eligible Customer-Generator's receipt of such invoice.

Unless otherwise ordered by the CPUC, this Agreement at all times shall be subject to such modifications as the CPUC may direct from time to time in the exercise of its jurisdiction.

I certify the above is true and correct,

Customer-Generator Signature: \_\_\_\_\_

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

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

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

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix I**

---

**APPENDIX I**  
(If Applicable)

**OPERATING REQUIREMENTS FOR ENERGY STORAGE  
DEVICE(S)**

The following Operating Requirement(s) apply to the charging functions of the Generating Facility:

- Producer's storage device(s) will not consume power from Distribution Provider's Distribution System at any time.
- Producer's storage device(s) will not cause the Host Load to exceed its normal peak demand. Normal peak demand is defined as the highest amount of power required from the Distribution System by Producer's complete facilities without the influence or use of the energy storage device(s).
- To avoid upgrades or other technical mitigation items identified in the interconnection process, Producer has chosen the following Generating Facility operating constraint(s):

For the annual period between \_\_\_\_\_ [Month/Day] and \_\_\_\_\_ [Month/Day]

And during the hours of \_\_\_\_\_

The storage device(s) will consume no more than a total of \_\_\_\_ kW from the Distribution System.

This operating constraint voids the need for the following specific mitigation scope:


No other charging function limitation is required for this Generating Facility except the requirements above. Producer will be responsible for the costs of the corresponding upgrades or other technical mitigations if at any time the Producer elects to forego or violates the operating requirement.

Consistent with current load service Rules, Distribution Provider is not required to reserve capacity for load. Producer is responsible to contact the utility for any modification to its equipment or change in operations that may result in increased load demand per Electric Rule 3.C.

If any operating requirement is specified above, Distribution Provider reserves the right to ask for data at the 15-minute interval level at any time to verify that the operating requirement is being met. Distribution Provider will make such request via a written notice no more than once per calendar quarter. Producer must provide such data within 30

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix I**

---

Calendar Days of the written request.

If the Generating Facility fails to adhere to the operating requirements at any time, it will be disconnected immediately in accordance with Rule 21 Section D.9 and not reconnected until an approved mitigation (e.g., supervising controls) is in place as determined by Distribution Provider.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix J**

---

**NEMFC Customer Agreement Starting January 1, 2017 Until California Air Resources Board Emission Standard is Established and Approved by the CPUC as Needed.**

Starting January 1, 2017, Customer applying for Schedule NEMFC, as revised pursuant to Assembly Bill 1637 (2016), agree as follows:

That their Eligible Fuel Cell Electrical Generating Facility must meet the reduction in greenhouse gas emissions standard to be established as required by the California Public Utilities (PU) Code Section 2827.10.

Since the applicable standards are not yet released by the California Air Resources Board (ARB) and/or approved as may be needed by the California Public Utilities Commission (CPUC), Customer agrees and understands that their approval for participation in NEMFC is contingent on their system meeting the new standard within three months of when the new standard becomes available. Specifically, I, Customer, understand and agree that if my fuel cell generator does not meet the ARB emission standard I will not be eligible for NEMFC.

Specifically, I will be responsible for the following:

1. Payment of all interconnection costs, including fees, studies, system upgrades, and any other pertinent interconnection costs.
2. Payment of the following nonbypassable charges on all departed load served by the fuel cell installed at my premises including but not limited to,
  - a. Public Purpose Program Charges;
  - b. Nuclear Decommissioning;
  - c. Department of Water Resources Bond Charges; and
  - d. Competition Transition Charge;
  - e. Other charges that the CPUC determines are to be charged on departed load and for which there is no exception for fuel cells pursuant to Schedule E-DCG.
3. I understand that I may be required to take service on standby tariff pursuant to Schedule S or Schedule SB and pursuant to PU Code Section 2827.10(f)(2)(A).
4. I further understand that I will not be eligible for Rate Schedule NEMFC and will no longer receive any credit for any exports to the grid.

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Date)



---

**ELECTRIC SAMPLE FORM 79-1151A** Sheet 1  
AGREEMENT AND CUSTOMER AUTHORIZATION  
Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30  
Kilowatts Or Less

**Please Refer to Attached  
Sample Form**



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF and participants in the Demand Response Programs below are not eligible to participate in NEM.
  - Peak Day Pricing (PDP)
  - Scheduled Load Reduction Program (SLRP)
  - SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

Standard NEM Agreement Type:     Single Account     Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation (NEMA) is a program that allows customers with multiple meters to use the renewable energy generated at one meter (up to 1MW) to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.

Customer Sector (check only one):

<input type="checkbox"/> Residential	<input type="checkbox"/> Educational
<input type="checkbox"/> Commercial	<input type="checkbox"/> Military
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other Government
<input type="checkbox"/> Non-Profit	

Account Holder Name* (Individual or Company)	Electric Service Agreement ID *	Meter Number*
Service Address*	City*	State    Zip*
Customer Phone Number	Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)	

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate   
  Unrestrained animal at meter or AC Disconnect Switch   
  Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist)	Contact Phone
---------------------------------------------------------	---------------

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer’s behalf):

Company Name	Contact Person
Contact Phone Number	Email

**By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit Application Form 79-1151B and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.**

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E’s Privacy Policy. The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy). Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### Part II – NEM Generator System Size

##### A. Interconnection Study and Requirements

This Agreement covers the installed Generating Facility nameplate listed in the accompanying Application Form 79-1151B.

The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) Application Form 79-1151B, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. For customers on a Time-of-Use rate, sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill. For customer who are not on a Time-of-Use rate, you might want to size your system larger (90-95% of your annual load), in order to minimize your electricity bill. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data](#)." System sizing eligibility will be reviewed using the criteria below.

##### B. Generator System Sizing

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:  Solar     Wind     Both

##### Estimated Annual Production:

	(1) Solar CEC-AC rating <sup>A</sup>	_____ (kW) X 1,500 <sup>B</sup>	=	_____ (kWh)
AND/OR	(2) Wind Nameplate rating	_____ (kW) X 2,190 <sup>C</sup>	=	_____ (kWh)
	(3) Total Energy Production	_____ (1) + (2)	=	_____ (kWh)

##### Estimated Annual Energy Usage:

(Solar systems ≤ 5 kW (CEC-AC) do not need to complete this section)

	(4) Recent annual usage	_____ (kWh) X 1.0	=	_____ (kWh)
OR (If 12 months usage not available)	(5) Building size	_____ (sq ft) X 3.00 <sup>D</sup>	=	_____ (kWh)
AND	(6) I plan to increase my annual usage (kWh) by	_____ (kWh)	=	_____ (kWh)
	(7) Total Energy Usage	(2 or 3) + (4)	=	_____ (kWh)

##### Net Generation:

	(8) Production - Usage		(3) - (7)	=	_____ (kWh)*
--	------------------------	--	-----------	---	--------------

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section J to read the provisions around Net Surplus Compensation (NSC).

<sup>A</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000  
<sup>B</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500  
<sup>C</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190  
<sup>D</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### Part III – Rate Selection

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM Account:** Select one rate from the category applicable to you. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

If your current rate is a closed rate, as identified in Footnote F, and you are now opting to move to a non-closed rate per the Otherwise Applicable Rate Schedule (OAS) for NEM Account, please check the box below acknowledging that you are leaving the closed rate and will not be able to select the closed rate in the future.

- I acknowledge and consent to leaving my current rate that is a closed rate

#### Part IV – Interconnection Agreement Provisions

##### A. Purpose

The purpose of this Net Energy Metering (NEM) Application and Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Agreement) is to allow Customer to interconnect with Pacific Gas and Electric Company's (PG&E) Distribution System, subject to the provisions of this Agreement and PG&E's Electric Schedule Net Energy Metering (NEM). Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with PG&E's Distribution System 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 requirements of the California Public Utilities Commission (CPUC).

##### B. Applicability

This Agreement applies to Electric Schedule NEM 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 or less that is located on Customer's premises and that operates in parallel with PG&E's Distribution System.

##### C. NEM Transition

Customers receiving service on the current NEM tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier, are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedule NEM at [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_SCHEDS\\_NEM.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHEDS_NEM.pdf) for more details.

##### D. Permission to Operate

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.

##### E. Safety

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, PG&E's Electric Rule 21, and other rules approved by the CPUC 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.



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### F. Safe Operation of your Generating Facility

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

#### G. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

#### H. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

#### I. NEM Billing

PG&E installs a "net meter" on a customer's property that measures the net energy, defined as the difference between the amount of electricity supplied by the energy provider and the amount of electricity exported to the grid over the course of a month. The Customer's account is enrolled in the NEM program and put on an annual (12- billing months) true-up cycle.

The meter is read monthly and an amount is calculated based on the net energy recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from PG&E in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from PG&E than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).

#### J. Net Surplus Compensation (NSC)

NSC payments are made to NEM customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_FORMS\\_79-1130.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1130.pdf). Participants in NEMA, please see provisions in Form 79-1153.

#### K. Limitation of Liability

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

#### L. 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.

#### M. Governing Authority

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



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### N. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM.

#### O. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.

#### P. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM.

#### Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>E</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

<sup>E</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments,
2. A completed signed Interconnection Agreement,
3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## Part V – Signature

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THIS ENTIRE DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY.**

**THIS FORM MUST BE SIGNED BY AN EXISTING PG&E CUSTOMER.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at <http://www.pge.com/about/company/privacy/customer>, PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to CPUC Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V above without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

Note: PG&E will accept electronic signatures that are verified by qualified Third Parties such as, Adobe EchoSign, e-SignLive, and DocuSign for this Agreement if the Agreement is completed in its entirety before signing.



# **AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less**

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM requirements.



**Electric Sample Form No. 79-1151A-02**

Sheet 1

Agreement And Customer Authorization Net Energy Metering (NEM2)  
Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Please Refer to Attached  
Sample Form**



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM2) Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF or participants in the Demand Response Programs below are not eligible to participate in NEM2.
  - Peak Day Pricing (PDP)
  - Scheduled Load Reduction Program (SLRP)
  - SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM2 program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

Standard NEM2 Agreement Type:     Single Account     Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation 2 (NEM2A) is a program that allows customers with multiple meters to use the renewable energy generated at one meter to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.

Customer Sector (check only one):

<input type="checkbox"/> Residential	<input type="checkbox"/> Educational
<input type="checkbox"/> Commercial	<input type="checkbox"/> Military
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other Government
<input type="checkbox"/> Non-Profit	

Account Holder Name* (Individual or Company)	Electric Service Agreement ID *	Meter Number*
Service Address*	City*	State    Zip*
Customer Phone Number	Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)	

Is there an electric vehicle charging on site at the above service address?     Yes     No  
 If yes, please indicate how many electric vehicles \_\_\_\_\_

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate     Unrestrained animal at meter or AC Disconnect Switch     Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist)	Contact Phone
---------------------------------------------------------	---------------

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer’s behalf):

Company Name	Contact Person
Contact Phone Number	Email

**By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit Application Form 79-1151B-02 and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.**

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E’s Privacy Policy.  
 The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).  
 Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM2) Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### Part II – NEM2 Generator System Size

#### A. Interconnection Study and Requirements

This Agreement covers the installed Generating Facility nameplate listed in the accompanying Application Form 79-1151B-02.

The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) Application Form 79-1151B-02, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM2 systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. All NEM2 customers must take service on a Time-of-Use rate schedule and sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill<sup>A</sup>. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data.](#)"

#### B. Generator System Sizing

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:  Solar     Wind     Both

##### Estimated Annual Production:

	(1) Solar CEC-AC rating <sup>B</sup>	_____ (kW) X 1,500 <sup>C</sup>	=	_____ (kWh)
AND/OR	(2) Wind Nameplate rating	_____ (kW) X 2,190 <sup>D</sup>	=	_____ (kWh)
	(3) Total Energy Production	_____ (1) + (2)	=	_____ (kWh)

##### Estimated Annual Energy Usage:

(Solar systems ≤ 5 kW (CEC-AC) do not need to complete this section)

	(4) Recent annual usage	_____ (kWh) X 1.0	=	_____ (kWh)
OR (If 12 months usage not available)	(5) Building size	_____ (sq ft) X 3.00 <sup>E</sup>	=	_____ (kWh)
AND	(6) I plan to increase my annual usage (kWh) by	_____ (kWh)	=	_____ (kWh)
	(7) Total Energy Usage	(4 or 5) + (6)	=	_____ (kWh)

##### Net Generation:

	(8) Production – Usage		(3) - (7) =	_____ (kWh)*
--	------------------------	--	-------------	--------------

<sup>A</sup> Customers on rate schedules such as ET, ES, and ESR, which do not have a corresponding TOU Rate, are not required to switch to TOU rates, unless and until such a rate becomes available.

<sup>B</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

<sup>C</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500

<sup>D</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190

<sup>E</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section H to read the provisions around Net Surplus Compensation (NSC).

## Part III – Rate Selection

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM2 Account:** Select one rate from the category applicable to you. NEM2 residential customers must be an applicable time-of-use rate<sup>F</sup> schedule. If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

## Part IV – Interconnection Agreement Provisions

### A. Applicability

This Agreement applies to Electric Schedule NEM2 Customer-Generators (Customer) who interconnect a solar and/or wind turbine electric Generating Facility, or a hybrid system of both, with an aggregate capacity of 30 kilowatts or less that is located on Customer's premises and that operates in parallel with PG&E's Distribution System.

### B. Permission to Operate

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.

### C. Safety

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, PG&E's Electric Rule 21, and other rules approved by the CPUC regarding safety and reliability. A Customer with a solar or wind-turbine electric 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.

### D. Safe Operation of your Generating Facility

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

### E. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

<sup>F</sup> Schedules such as ES, ESR or ET, which have no available corresponding time-of-use rate, are not required to switch to time-of-use rates, unless and until such a rate becomes available.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## F. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS) to establish how the Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

## G. NEM2 Billing

The Customer's meter separately measures exports and imports.

The meter is read monthly and an amount is calculated based on the net energy (kWh) and total energy(kWh) exports recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from the energy provider in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from PG&E than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

Additionally, the Customer will be billed for non-bypassable charges on all imports from the grid, as describe in Schedule NEM2 Special Condition 2.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM2 billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).

## H. Net Surplus Compensation (NSC)

NSC payments are made to NEM2 customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_FORMS\\_79-1130.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1130.pdf). Participants in NEM2A, please see provisions in *NEM2 Load Aggregation Appendix (Form 79-1153)*.

## I. Limitation of Liability

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## J. 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.

## K. Governing Authority

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

## L. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM2.

## M. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## N. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM2.

## O. CEC Listed

In order to promote the safety and reliability of the customer's Generating Facility, the applicant certifies that as a part its request for NEM2, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.

## P. Warranties or Service Agreements

Customer certifies as a part of its interconnection request for NEM2 that:

- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
- (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.

## Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-andtopics/topics/renewable-energy/solarequipment-lists>.)

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application <sup>g</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

<sup>g</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments,
2. A completed signed Interconnection Agreement, (continued on next page)
3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## Part V – Signature

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THE FULLY POPULATED DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY.**

**THIS FORM MUST BE SIGNED BY THE EXISTING PG&E CUSTOMER LISTED IN PART I.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at <http://www.pge.com/about/company/privacy/customer>, PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to California Public Utilities Code (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

Note: PG&E can request additional documentation to verify the authenticity of the externally signed Agreement and Customer Authorization.

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM2 requirements.



**Electric Sample Form 79-1151B**

Sheet 1

APPLICATION

Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30  
Kilowatts Or Less

**Please Refer to Attached  
Sample Form**



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- For a non-exporting Generating Facility, RES-BCT facility, or NEM Generating technologies other than 30 kW or less solar or wind, Customers must submit the online Form 79-974 available at [www.pge.com/gen](http://www.pge.com/gen).

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

\_\_\_\_\_  
Electric Service Agreement ID\*

\_\_\_\_\_  
Meter Number\*

Is there an electric vehicle charging on site at the above service address?  Yes  No  
If yes, please indicate how many electric vehicles \_\_\_\_\_

**B. Interconnection Application Type** (check one):

- New NEM Generating Facility interconnection at an existing PG&E service.
- Modify existing PG&E approved Generating Facility interconnection (adding/removing/replacing equipment).
  - Must provide a Custom Single-Line Drawing (SLD) showing the original system and the modified system.
- New interconnection in combination 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 PG&E Electric Rules 15 and 16. Please contact PG&E at 1-800-PGE-5000.
  - If this account will be established in a new subdivision, attach a list of lots/addresses and provide the following:

\_\_\_\_\_  
Developer Name

\_\_\_\_\_  
Development Name

**C. System Owner** (check one):

- PG&E Customer Owned

If PG&E Customer Owned, please answer the following:

Property Assessed Clean Energy (PACE) Financed?  Yes  No

Indicate the System Cost paid by Customer: \$ \_\_\_\_\_

PACE financed by which entity? \_\_\_\_\_

If you have non-PACE financing or a lease, please fill in the information below.

\_\_\_\_\_  
Financial Institution/Lessor Name

\_\_\_\_\_  
Financial Institution/Lessor Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

- Third Party Owned

If Third Party Owned, please answer the following:

Claimed Federal Investment Tax Credit (ITC) Cost Basis: \$ \_\_\_\_\_

Name of Developer at the time of sale: \_\_\_\_\_

Contract Type:  PPA  Lease  Pre-Paid Lease  Other \_\_\_\_\_

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E's Privacy Policy.  
The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**D. Rebate Information:**

Did you participate in a California rebate program?  Yes  No

Please indicate the rebate program that you participated in: \_\_\_\_\_

Rebate Amount: \$ \_\_\_\_\_

**Part I – Generating Facility Information and Responsible Parties – Continued**

**E. Contractor Information** (List who is installing the system):  Check this box if self-installed

\_\_\_\_\_  
Company Name California Contractors State License Number

\_\_\_\_\_  
Company Address Phone Number

\_\_\_\_\_  
Email

**Home Improvement Salesperson (HIS) Registration Number Information**

Was a Home Improvement Salesperson (HIS) involved in the development of your project?

Yes  No

*California Public Utilities Commission Decision 21-02-026 requires “the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license.”*

If you checked “Yes” above:

Please provide the Home Improvement Salesperson (HIS) registration number below.

Home Improvement Salesperson (HIS) registration number: \_\_\_\_\_

**F. Preparer of this Application** (if not the PG&E Customer, the Preparer must be authorized to act on behalf of the Customer on the Interconnection Agreement and Customer Authorization Form 79-1151A):

\_\_\_\_\_  
Company Name Preparer Name Date Prepared

**G. Customer Impacted by a Natural or Man-Made Disaster**

Customers who were taking service on the NEM tariff prior to the total or partial destruction of their system have the option to resume service on the same NEM tariff if a request for reapplication is received within two years from the date of destruction. To be eligible for this provision, all the following must be true:

1. You are the same PG&E customer of record pre-system destruction
2. You are now reapplying with a system that is sized to your most recent 12 months usage, or estimated usage that is determined by building size<sup>1</sup> (if applicable)
3. You are not operating the new (either completely new or partially new) system without written permission from PG&E

<sup>1</sup>Building Size Calculation: Sq Ft X 3.23. Note: 2 watts/sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.19 solar capacity factor = 3.32





# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>B</sup> Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC <sup>C</sup> Rating kW/unit	Total Nameplate Capacity kW		Qty

### B.4 Photovoltaic Generator 2:

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC Rating kW/unit	Total Nameplate Capacity kW		Qty

### C. Wind Turbine Generating Facility Information

Check this box if the inverter is incorporated in the wind turbine. Then complete the Wind Turbine information below and identify the following: Output Voltage: \_\_\_\_\_(volts); Phase Type:  1  3

### Part II – Description of the Generating Facilities – Continued

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
Wind Turbine Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Total Nameplate Capacity kW		Qty

### D. AC Disconnect Switch

Check this box if no A/C Disconnect Switch is applicable. See Part III, Section C for requirements.

AC Disconnect Manufacturer	Model Number	Rating (amps)	Qty

<sup>A</sup> California Energy Commission (CEC) ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)

<sup>C</sup> PTC: PVUSA Test Conditions. PTC ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E's Privacy Policy.

The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

If applicable, is/are the AC Disconnect(s) less than 10 ft. of the PG&E electric meter?  Yes  No

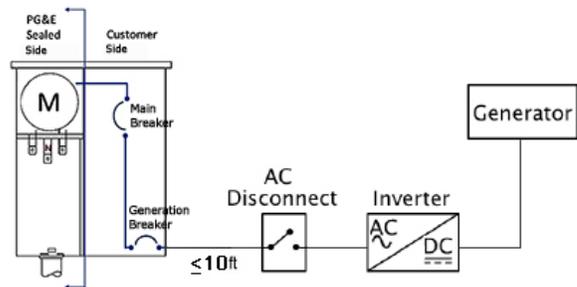
Note: PG&E's Electric and Gas Service Requirements, also known as the "Greenbook" requires the AC Disconnect Switch to be located 10 feet or less from PG&E's electric revenue meter at the point of common coupling or interconnection and easily seen from the panel. If the AC Disconnect Switch is greater than 10 feet or there is more than one AC Disconnect, a variance request must be submitted as outlined in Part II, Section A.

**E. Basic Single-Line Diagram (SLD) for Solar Projects (check one):**

I certify that the SLD below and the PV equipment information in Part II accurately represent the Customer's service, the Generating Facility (there are no other Generator Facility(ies) connected to the service, and the project does not require a Variance Request.

Utility Service: (if using the SLD to the right)

Panel Voltage (volts)	Main Breaker (amps)	PV Breaker Size (amps)



I will submit a custom SLD for one or more of the following reasons: there is/are existing Generating Facility(ies) connected to the service, I am modifying an existing Generating Facility, the Basic SLD does not accurately reflect the project, or I am submitting a Variance Request.  
(See Part III Section D for Custom SLD details.)

**F. Service Panel Short Circuit Interrupting Rating (SCIR) (for total inverter nameplate ratings larger than 11 kW):**

SCIR of the service panel connected to this Generating Facility: \_\_\_\_\_ watts



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part III – Interconnection Guidelines and Document Information

Note: Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM customers. Please contact Electric Generation Interconnection department at 415-972-5676 or email [gen@pge.com](mailto:gen@pge.com) if the proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland where the zip code is 94607 or 94612.

#### A. Documents

In addition to this NEM Interconnection Application, the documents listed below are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Customer's interconnection has been performed in accordance with PG&E's tariffs. Additional forms are available on PG&E's website at [www.pge.com/standardnem](http://www.pge.com/standardnem).

##### Required Documents

- Net Energy Metering (NEM) Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less and Customer Authorization Form 79-1151A.
- Copy of the final, signed, jurisdiction approval (building permit) for Customer's Generating Facility.

##### Additional Documents (if applicable)

- Variance Request (if project deviates from requirements in Part II Section A).
- Custom Single-Line Diagram (SLD) (if project does not meet Part II Section E basic SLD requirements).

Documents and requirements other than those listed above and/or fees *may* be required depending on the specifics of the planned Generating Facility.

#### B. Variance Request (if applicable)

The Customer or the Customer's Contractor can request a Variance Request review from PG&E if the project is unable to meet the requirements described in the Distribution Interconnection Handbook and Greenbook, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). The Variance Request must be submitted with the Interconnection Application and include the following.

1. Description of the proposal for which the Customer is requesting approval.
2. Customer name and project address.
3. Copy of the Custom Single Line Diagram or electrical drawings (Include the equipment, location, and/or distances for the proposed work).
4. Color photos of the Customer's area or section for the proposed work.
5. Manufacturer specification drawings for unapproved equipment that the Customer is requesting an approval.

#### C. AC Disconnect Switch Guidelines

PG&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.). The AC Disconnect Switch provides the additional benefit of allowing PG&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.

Customers **are not required** to include an AC Disconnect Switch when the facility has a single-phase self-contained electric revenue meter (i.e. 0-320 amp panel). However, if the Customer does not install an AC Disconnect Switch, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence.

An AC Disconnect Switch **is required** for a Customer with:

- Inverter-based interconnections having a three-phase self-contained meter or 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 - irrespective of whether the service meter configuration is transformer-rated or self-contained.



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

- Inverter and non-inverter based generators that do not have overcurrent protection at the point of interconnection.

### Part III – Interconnection Guidelines and Document Information – Continued

#### D. Custom Single-line Diagram (SLD) (if applicable)

The Custom SLD must include the information below for identified equipment.

1. Manufacturer, model number, nameplate rating, quantity:
  - a) Inverter(s), PV or wind turbine generators, AC Disconnect Switch, generation output meter and instrument transformers.
2. Electrical rating and operating voltages:
  - a) Service panel, circuit breaker, and other Generating Facility protective devices
3. Location of:
  - a) Customer's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System.
  - b) AC Disconnect Switch.
4. 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 based on the total nameplate rating of the inverter.

**E. Governing Authority.** This form at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

Please submit the Agreement and Customer Authorization and Application online at [www.pge.com/standardnem](http://www.pge.com/standardnem).



**Electric Sample Form No. 79-1151B-02**

Sheet 1

Application - Net Energy Metering (NEM2) Interconnection For Solar And/Or  
Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Please Refer to Attached  
Sample Form**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### IMPORTANT NOTES:

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- For a non-exporting Generating Facility, RES-BCT facility, or NEM2 Generating technologies other than 30 kW or less solar or wind, Customers must submit the online Form 79-1174-02 available at [www.pge.com/gen](http://www.pge.com/gen).

### Part I – Generating Facility Information and Responsible Parties

#### A. Customer and Generating Facility Information (\*as it appears on the PG&E bill):

Electric Service Agreement ID\*

Meter Number\*

#### B. Interconnection Application Type (check one):

- New NEM2 Generating Facility interconnection at an existing PG&E service.
- Modify existing PG&E approved Generating Facility interconnection (adding/removing/replacing equipment).
- Must provide a Custom Single-Line Drawing (SLD) showing the original system and the modified system.

#### C. System Owner (check one):

- PG&E Customer Owned

If PG&E Customer Owned, please answer the following:

Property Assessed Clean Energy (PACE) Financed?  Yes  No

PACE financed by which entity? \_\_\_\_\_

Indicate the System Cost paid by Customer: \$ \_\_\_\_\_

If you have non-PACE financing or a lease, please fill in the information below.

Financial Institution/Lessor Name \_\_\_\_\_

Financial Institution/Lessor Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

- Third Party Owned

If Third Party Owned, please answer the following:

Claimed Federal Investment Tax Credit (ITC) Cost Basis: \$ \_\_\_\_\_

Name of Developer at the time of sale: \_\_\_\_\_

Contract Type:  PPA  Lease  Pre-Paid Lease  Other \_\_\_\_\_

#### D. Rebate Information:

Did the Customer participate in a California rebate program?  Yes  No

Please indicate the rebate program that you participated in: \_\_\_\_\_

Rebate Amount: \$ \_\_\_\_\_

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E's Privacy Policy.  
The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part I – Generating Facility Information and Responsible Parties – Continued

**E. Contractor Information** (List who is installing the system):  Check this box if self-installed

Company Name	California Contractors State License Number		
Street Address	City	State	Zip
Email	Phone Number		

**Home Improvement Salesperson (HIS) Registration Number Information**

Was a Home Improvement Salesperson (HIS) involved in the development of your project?

- Yes       No

*California Public Utilities Commission Decision 21-02-026 requires “the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license.”*

If you checked “Yes” above:

Please provide the Home Improvement Salesperson (HIS) registration number below.

Home Improvement Salesperson (HIS) registration number: \_\_\_\_\_

**F. Preparer of this Application** (if not the PG&E Customer, the Preparer must be authorized to act on behalf of the Customer on the Interconnection Agreement and Customer Authorization Form 79-1151-02A):

Company Name	Preparer Name	Date Prepared
--------------	---------------	---------------

### Part II – Description of the Generating Facilities

**A. Variances from Distribution Interconnection Handbook (DIH) and Greenbook Requirements** (check one):  
Generating Facilities must meet the DIH and Greenbook requirements, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). A Variance Request must be submitted with the application for deviations, i.e. line-side tap, AC Disconnect > 10 ft from PG&E meter. (See Part III Section B for information on submitting Variance Request)

- The project meets the DIH and Greenbook Requirements and does not require a Variance Request.  
 The project deviates from the DIH and Greenbook Requirements and I will include a Variance Request.

**B. Photovoltaic (PV) Generating Facility Information**

To avoid application processing delays, the manufacturer and model numbers provided should be the same as they appear on the Go Solar California website: [http://www.gosolarcalifornia.ca.gov/links/equipment\\_links.php](http://www.gosolarcalifornia.ca.gov/links/equipment_links.php).

- B.1 Mounting Method:**     Rooftop       Ground       Mixed
- B.2 Tracking Type:**       Fixed       Single-Axis       Dual-Axis       Mixed

If fixed,  
please indicate:

Tilt: \_\_\_\_\_ degrees    Azimuth: \_\_\_\_\_ degrees

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

---

**B.3 Are Performance Monitoring and Reporting Services (PMRS) being utilized?**  Yes  No

Who is receiving the data (check all that apply):  Customer

Third Party (list name) \_\_\_\_\_



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part II – Description of the Generating Facilities – Continued

#### B.4 Photovoltaic Generator 1:

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>A</sup> Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC <sup>B</sup> Rating kW/unit	Total Nameplate Capacity kW		Qty

#### B.4 Photovoltaic Generator 2:

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC Rating kW/unit	Total Nameplate Capacity kW		Qty

#### C. Wind Turbine Generating Facility Information

Check this box if the inverter is incorporated in the wind turbine. Then complete the Wind Turbine information below and identify the following: Output Voltage: \_\_\_\_\_(volts); Phase Type:  1  3

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
Wind Turbine Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Total Nameplate Capacity kW		Qty

#### D. AC Disconnect Switch

Check this box if no A/C Disconnect Switch is applicable. See Part III, Section C for requirements.

AC Disconnect Manufacturer	Model Number	Rating (amps)	Qty

If applicable, is/are the AC Disconnect(s) within 10 ft. of the PG&E electric meter?  Yes  No

Note: PG&E's Electric and Gas Service Requirements, also known as the "Greenbook" requires the AC Disconnect Switch to be located 10 feet or less from PG&E's electric revenue meter at the point of common coupling or interconnection and easily seen from the panel. If the AC Disconnect Switch is greater than 10 feet or there is more than one AC Disconnect, a variance request must be submitted as outlined in Part II, Section A.

<sup>A</sup> California Energy Commission (CEC) ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)

<sup>B</sup> PTC: PVUSA Test Conditions. PTC ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)

**Please complete this agreement in its entirety**

# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part II – Description of the Generating Facilities – Continued

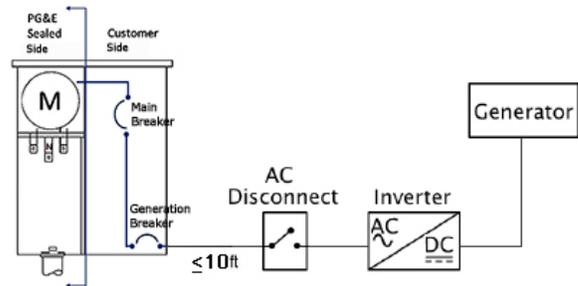
**E. Basic Single-Line Diagram (SLD) for Solar Projects (check one):**

I certify the following:

- 1) SLD below and the PV equipment information in Part II accurately represent the Customer's service,
- 2) the Generating Facility (there are no other Generator Facility(ies) connected to the service, and
- 3) the project does not require a Variance Request.

**Utility Service:** (if using the SLD to the right)

Panel Voltage (volts)	Main Breaker (amps)	PV Breaker Size (amps)



I will submit a custom SLD for one or more of the following reasons: there is/are existing Generating Facility(ies) connected to the service, I am modifying an existing Generating Facility, the Basic SLD does not accurately reflect the project, or I am submitting a Variance Request.  
(See Part III Section D for Custom SLD details.)

**F. Service Panel Short Circuit Interrupting Rating (SCIR) (for total inverter nameplate ratings larger than 11 kW):**

SCIR of the service panel connected to this Generating Facility: \_\_\_\_\_ amps

**G. Customer Impacted by a Natural or Man-Made Disaster**

Customers who were taking service on the NEM 2 tariff prior to the total or partial destruction of their system have the option to resume service on the same NEM tariff if a request for reapplication is received within two years from the date of destruction. To be eligible for this provision, all the following must be true:

1. You are the same PG&E customer of record pre-system destruction
2. You are now reapplying with a system that is sized to your most recent 12 months usage, or estimated usage that is determined by building size<sup>C</sup> (if applicable)
3. You are not operating the new (either completely new or partially new) system without written permission from PG&E
4. Your NEM Transition Period has not expired at the time of reapplication (see NEM 2 Tariff)

Based on the above, select the appropriate box:

I am a Customer who was impacted by a Natural or Man-Made Disaster as described in the NEM Tariffs and the above statements are true. I will submit my application online at <https://www.egi-pge.com/> and will include the complete system currently onsite on the single line diagram. If my previous system was destroyed, I will also state this on the single line diagram.

I am either ineligible for this provision or this provision does not apply to my application. In either case, I will submit my application online at <https://www.egi-pge.com/>.

<sup>C</sup>Building Size Calculation: Sq Ft X 3.23. Note: 2 watts/sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.19 solar capacity factor = 3.32

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part III – Interconnection Guidelines and Document Information

Note: Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM2 customers. Please contact PG&E's Solar Customer Service Center at 877-743-4112, or email [SNEMHelp@pge.com](mailto:SNEMHelp@pge.com) if the proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland where the zip code is 94607 or 94612.

#### A. Documents

In addition to this NEM2 Interconnection Application, the documents listed below are needed to ensure safe and reliable operation of PG&E's Electric System and to confirm that Customer's interconnection has been performed in accordance with PG&E's tariffs. Additional forms are available on PG&E's website at [www.pge.com/standardnem](http://www.pge.com/standardnem).

##### Required Documents

- Net Energy Metering (NEM2) Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less and Customer Authorization Form 79-1151-02A.
- Copy of the final, signed, jurisdiction approval (building permit) for Customer's Generating Facility.

##### Additional Documents (if applicable)

- Variance Request (if project deviates from requirements in Part II Section A).
- Custom Single-Line Diagram (SLD) (if project does not meet Part II Section E basic SLD requirements).

Documents and requirements other than those listed above and/or fees *may* be required depending on the specifics of the planned Generating Facility.

#### B. Variance Request (if applicable)

The Customer or the Customer's Contractor can request a Variance Request review from PG&E if the project is unable to meet the requirements described in the Distribution Interconnection Handbook and Greenbook, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). The Variance Request must be submitted with the Interconnection Application and include the following.

1. Description of the proposal for which the Customer is requesting approval.
2. Customer name and project address.
3. Copy of the Custom Single Line Diagram or electrical drawings (Include the equipment, location, and/or distances for the proposed work).
4. Color photos of the Customer's area or section for the proposed work.
5. Manufacturer specification drawings for unapproved equipment that the Customer is requesting an approval.

#### C. AC Disconnect Switch Guidelines

PG&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.). The AC Disconnect Switch provides the additional benefit of allowing PG&E to isolate the Customer's generator from the utility's Electric System without having to interrupt service to the customer's facility or residence.

Customers **are not required** to include an AC Disconnect Switch when the facility has a single-phase self-contained electric revenue meter (i.e. 0-320 amp panel). However, if the Customer does not install an AC Disconnect Switch, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence.

An AC Disconnect Switch **is required** for a Customer with:

- Inverter-based interconnections having a three-phase self-contained meter or 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 - irrespective of whether the service meter configuration is transformer-rated or self-contained.
- 

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part III – Interconnection Guidelines and Document Information - Continued

- Inverter and non-inverter based generators that do not have overcurrent protection at the point of interconnection.

#### D. Custom Single-line Diagram (SLD) (if applicable)

The Custom SLD must include the information below for identified equipment.

1. Manufacturer, model number, nameplate rating, quantity:
  - a) Inverter(s), PV or wind turbine generators, AC Disconnect Switch, generation output meter and instrument transformers.
2. Electrical rating and operating voltages:
  - a) Service panel, circuit breaker, and other Generating Facility protective devices
3. Location of:
  - a) Customer's loads relative to the Generating Facility, and the interconnection with PG&E's Electric System.
  - b) AC Disconnect Switch.
4. 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 based on the total nameplate rating of the inverter.

**E. Governing Authority.** This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

Please submit the Agreement and Customer Authorization and Application online at [www.pge.com/standardnem](http://www.pge.com/standardnem).



**Electric Sample Form No. 79-1174-02D**  
Rule 21 Generator Interconnection Application - Attachment D

Sheet 1

**Please Refer to Attached  
Sample Form**

(Continued)

*Advice* 6273-E-A  
*Decision* D.21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 20, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

### Part I - Describing the Generating Facility and Host Customer's Electrical Facilities

Please complete the following table for the specific generator technology indicated.

Instructions				
Inverter	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>Please indicate the number of each <b>"type"</b> and <b>quantity</b> of Generator being installed</p> <p>Be sure all Generators classified as one "type" are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p>				
<p>A - Generator/Inverter Manufacturer</p> <p>Enter the brand name of the Generator.</p>				
<p>B - Generator/Inverter Model</p> <p>Enter the model name or number assigned by the manufacturer of the Generator.</p>				
<p>C - Generator/Inverter Software Version</p> <p>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.</p>				
<p>D - Is the Generator/Inverter certified?</p> <p>Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&amp;E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory.</p> <p>See PG&amp;E's Rule 21, Section L for additional information regarding Generator certification.</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Modules.	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>
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 - 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 PG&E's Rule 21, Section H.2.b. and Table H.1., for additional information.				
H - Power Factor Rating  This value should be the nominal power factor rating designated by the manufacturer for the Generator.  See PG&E's Rule 21, Section H.2.i. for additional information.				
I - PF Adjustment Range  Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values.  See PG&E's Rule 21, Section H.2.i.				
J - Wiring Configuration  Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.				



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<b>K - AC Disconnect</b> For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.  See PG&E's Rule 21, Section H.1.d  Located within 10 feet of the PG&E meter?	_____ Manufacturer  _____ Model #  _____ Rating (amps)  ____ Yes ____ No			
<b>L - Lineside Tap</b> PG&E has special requirements for a lineside tap.  Contact PG&E at: <a href="mailto:Rule21Gen@PGE.com">Rule21Gen@PGE.com</a> for more information.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
<b>N - Warranty or Service Agreement</b> Applicant has verified that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No

### Part II Solar Statistics Data Fields

Per Appendix A of CPUC D. 14-11-001, the following data fields must all be completed, in their entirety, in order to initiate PG&E's interconnection review of the proposed Generating Facility. *Only complete Part II if the solar generating facility is serving as part of a Net Energy Metering (NEM2) arrangement.*

**A. Customer Sector** (Check one)

- |                                           |                                      |                                     |
|-------------------------------------------|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Residential      | <input type="checkbox"/> Educational | <input type="checkbox"/> Industrial |
| <input type="checkbox"/> Commercial       | <input type="checkbox"/> Military    | <input type="checkbox"/> Non-Profit |
| <input type="checkbox"/> Other Government |                                      |                                     |



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

### B. Are Performance Monitoring and Reporting Services (PMRS) being utilized?

Yes       No

If yes, please indicate who is receiving the data? (check all that apply)

Customer

3<sup>rd</sup> Party (list name) \_\_\_\_\_

### C. Are there electric vehicles charging on site at the above generating facility address?

Yes       No

If yes, please indicate how many electric vehicles \_\_\_\_\_

### D. System Ownership and Financing

#### i. System Owner (check one):

PG&E Customer Owned

If PG&E Customer Owned, please answer the following:

Indicate the System Cost paid by Customer: \$ \_\_\_\_\_

Property Assessed Clean Energy (PACE) Financed?

Yes

No

If Yes, PACE financed by which entity? \_\_\_\_\_

If you have non-PACE financing or a lease, please fill in the information below

\_\_\_\_\_  
Financial Institution/Lessor Name

\_\_\_\_\_  
Financial Institution/Lessor Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

Third Party Owned

If Third Party Owned, please answer the following:

Claimed Federal Investment Tax Credit (ITC) Cost Basis: \$ \_\_\_\_\_

Name of Developer at the time of sale:  
\_\_\_\_\_

Contract Type:     PPA     Lease     Pre-Paid Lease     Other \_\_\_\_\_

#### ii. Rebate Information:

Did you participate in a California rebate program?     Yes     No

Please indicate the rebate program that you participated in: \_\_\_\_\_

Rebate Amount: \$ \_\_\_\_\_

If you are participating in the Single-family Affordable Solar Home (SASH) program, please provide SASH project number: \_\_\_\_\_

### E. Additional Generating Facility Information (Solar PV Only)



**INTERCONNECTION APPLICATION (Form 79-1174-02)**  
**ATTACHMENT D**

**SOLAR (PV) TECHNOLOGY**

---

**i. Mounting Method:**       Rooftop       Ground       Mixed

**ii. Tracking Type:**       Fixed       Single-Axis       Dual-Axis       Mixed

If fixed, please indicate: Tilt: \_\_\_\_\_ degrees      Azimuth: \_\_\_\_\_ degrees

**F. Installer's/Vendor's California State Contractor License Number:** \_\_\_\_\_

**G. CPUC Consumer Protection Requirements Pursuant to Decision 21-06-026**

**a. Home Improvement Salesperson (HIS) Registration Number**

Was a Home Improvement Salesperson (HIS) involved in the development of your project?

Yes       No

California Public Utilities Commission (CPUC) Decision 21-02-026 requires *"the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor's license."*

If you checked "Yes" above:

Please provide the Home Improvement Salesperson (HIS) registration number below.

Home Improvement Salesperson (HIS) registration number:

\_\_\_\_\_



**Electric Sample Form No. 79-1193**

Sheet 1

Agreement and Customer Authorization Net Energy Metering (NEM) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification

**Please Refer to Attached  
Sample Form**

(Continued)

*Advice* 6273-E-A  
*Decision* D.21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 20, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Paired with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF and participants in the Demand Response Programs below are not eligible to participate in NEM.
  - Scheduled Load Reduction Program (SLRP) ○ SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

NEM 30 kilowatts or Less Paired with Energy Storage:  Single Account  Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation (NEMA) is a program that allows customers with multiple meters to use the renewable energy generated at one meter (up to 1MW) to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator. Energy Storage system must be 10 kilowatts or less.

Customer Sector (check only one):

<input type="checkbox"/> Residential	<input type="checkbox"/> Educational
<input type="checkbox"/> Commercial	<input type="checkbox"/> Military
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other Government
<input type="checkbox"/> Non-Profit	

Account Holder Name* (Individual or Company)	Electric Service Agreement ID *	Meter Number*
		CA
Service Address*	City*	State    Zip*
Customer Phone Number	Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)	

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate   
  Unrestrained animal at meter or AC Disconnect Switch   
  Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist)	Contact Phone
---------------------------------------------------------	---------------



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer’s behalf):

Company Name	Contact Person
Contact Phone Number	Email

By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit an Interconnection Request and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.

**Part II – NEM Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the associated Interconnection Request. The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) a valid Interconnection Request, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM systems should be sized with an estimated annual production no larger than 100% of the Customer’s total previous 12 months of usage (annual usage) and projected future increase. For customers on a Time-of-Use rate, sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill. For customer who are not on a Time-of-Use rate, you might want to size your system larger (90-95% of your annual load), in order to minimize your electricity bill. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled “[Access, download, or share usage data](#).” System sizing eligibility will be reviewed using the criteria below.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## B. Generator System Sizing

Please complete this section only if installing a new Solar or Wind system or modifying an existing Solar or Wind system. This section is not applicable if only adding energy storage to an existing previously interconnected Solar or Wind system.

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:     Solar     Wind     Both

### Estimated Annual Production:

(1) Solar CEC-AC rating<sup>A</sup>                      \_\_\_\_\_ (kW) X 1,500<sup>B</sup> = \_\_\_\_\_ (kWh)  
 AND/OR (2) Wind Nameplate rating                      \_\_\_\_\_ (kW) X 2,190<sup>C</sup> = \_\_\_\_\_ (kWh)  
 (3) Total Energy Production                      \_\_\_\_\_ (1) + (2) = \_\_\_\_\_ (kWh)

### Estimated Annual Energy Usage:

(4) Recent annual usage                      \_\_\_\_\_ (kWh) X 1.0 = \_\_\_\_\_ (kWh)  
 OR (If 12 months usage not available) (5) Building size                      \_\_\_\_\_ (sq ft) X 3.00<sup>D</sup> = \_\_\_\_\_ (kWh)  
 AND (6) I plan to increase my annual usage (kWh) by                      \_\_\_\_\_ (kWh)  
 (7) Total Energy Usage                      (2 or 3) + (4) = \_\_\_\_\_ (kWh)

### Net Generation:

(8) Production - Usage                      (3) – (7) = \_\_\_\_\_ (kWh)\*

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section J to read the provisions around Net Surplus Compensation (NSC).

### A Non-NEM Eligible Energy Storage System or an Energy Storage System with a Certified Power Control System (see Section R):

Energy Storage System Rating \_\_\_\_\_ kW

Does the energy storage system share an inverter with the NEM system?     Yes     No

If not, please provide:

Energy Storage Inverter Rating \_\_\_\_\_ kW

<sup>A</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000  
<sup>B</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500  
<sup>C</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190  
<sup>D</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## Part III – Rate Selection

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM Account:** Select one rate from the category applicable to you. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

If your current rate is a closed rate, as identified in Footnote F, and you are now opting to move to a non-closed rate per the Otherwise Applicable Rate Schedule (OAS) for NEM Account, please check the box below acknowledging that you are leaving the closed rate and will not be able to select the closed rate in the future.

- I acknowledge and consent to leaving my current rate that is a closed rate.

## Part IV – Interconnection Agreement Provisions

### A. Purpose

The purpose of this Net Energy Metering (NEM) Application and Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Agreement) is to allow Customer to interconnect with Pacific Gas and Electric Company's (PG&E) Distribution System, subject to the provisions of this Agreement and PG&E's Electric Schedule Net Energy Metering (NEM). Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with PG&E's Distribution System 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 requirements of the California Public Utilities Commission (CPUC).

### B. Applicability

This Agreement applies to Electric Schedule NEM 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 or less that is located on Customer's premises and that operates in parallel with PG&E's Distribution System.

### C. NEM Transition

Customers receiving service on the current NEM tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier, are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedule NEM at [http://www.pge.com/tariffs/tm2/pdf/ELEC\\_SCHEDS\\_NEM.pdf](http://www.pge.com/tariffs/tm2/pdf/ELEC_SCHEDS_NEM.pdf) for more details.

### D. Permission to Operate

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## E. Safety

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, PG&E's Electric Rule 21, and other rules approved by the CPUC 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.

## F. Safe Operation of your Generating Facility

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

## G. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

## H. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

## I. NEM Billing

PG&E installs a "net meter" on a customer's property that measures the net energy, defined as the difference between the amount of electricity supplied by the energy service provider and the amount of electricity exported to the grid over the course of a month. The Customer's account is enrolled in the NEM program and put on an annual (12- billing months) true-up cycle.

The meter is read monthly and an amount is calculated based on the net energy recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from PG&E in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from PG&E than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## J. Net Surplus Compensation (NSC)

NSC payments are made to NEM customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [www.pge.com/nscoptout](http://www.pge.com/nscoptout) to complete Form 79-1130. Participants in NEMA, please see provisions in Form 79-1153.

## K. Limitation of Liability

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## L. 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.

## M. Governing Authority

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

## N. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM.

## O. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.

## P. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>E</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

## R. Power Control System Certification

By signing below, customer confirms that Energy Storage over 10 kW has received UL 1741 CRD for Power Control Systems (PCS) certification that will comply with either No Grid Charge or No Storage Export as defined in Schedule NEM2.

---

<sup>E</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments
2. A completed signed Interconnection Agreement
3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**Part V – Signature**

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THIS ENTIRE DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY.**

**THIS FORM MUST BE SIGNED BY AN EXISTING PG&E CUSTOMER.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at [www.pge.com/about/company/privacy/customer], PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to CPUC Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

Note: PG&E will accept electronic signatures that are verified by qualified Third Parties such as, Adobe EchoSign, e-SignLive, and DocuSign for this Agreement if the Agreement is completed in its entirety before signing.



**AGREEMENT AND CUSTOMER AUTHORIZATION  
Net Energy Metering (NEM) Interconnection  
For Solar And/Or Wind Electric Generating  
Facilities Of 30 Kilowatts Or Less with Energy  
Storage of 10 Kilowatts Or Less or Energy Storage  
with Power Control System Certification**

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM requirements.



**Electric Sample Form No. 79-1193-02**

Sheet 1

Agreement and Customer Authorization Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification

**Please Refer to Attached Sample Form**

(Continued)

*Advice* 6273-E-A  
*Decision* D.21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 20, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM2) Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF or participants in the Demand Response Programs below are not eligible to participate in NEM2.
  - Scheduled Load Reduction Program (SLRP)
  - SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM2 program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

Standard NEM2 Agreement Type:       Single Account                       Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation 2 (NEM2A) is a program that allows customers with multiple meters to use the renewable energy generated at one meter to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.

Customer Sector (check only one):

<input type="checkbox"/> Residential	<input type="checkbox"/> Educational
<input type="checkbox"/> Commercial	<input type="checkbox"/> Military
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other Government
<input type="checkbox"/> Non-Profit	

Account Holder Name* (Individual or Company)	Electric Service Agreement ID *	Meter Number*
----------------------------------------------	---------------------------------	---------------

Service Address*	City*	State	Zip*
		CA	

Customer Phone Number	Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)
-----------------------	--------------------------------------------------------------------------------------------------

Is there an electric vehicle charging on site at the above service address?     Yes     No  
 If yes, please indicate how many electric vehicles \_\_\_\_\_

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate     Unrestrained animal at meter or AC Disconnect Switch     Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist)	Contact Phone
---------------------------------------------------------	---------------

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E’s Privacy Policy.  
 The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).  
 Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer's behalf):

Company Name	Contact Person
Contact Phone Number	Email

By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit an Interconnection Request and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.

**Part II – NEM2 Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the associated Interconnection Request. The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) a **valid Interconnection Request**, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM2 systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. All NEM2 customers must take service on a Time-of-Use rate schedule and sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill<sup>A</sup>. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data.](#)"

<sup>A</sup> Customers on rate schedules such as ET, ES, and ESR, which do not have a corresponding TOU Rate, are not required to switch to TOU rates, unless and until such a rate becomes available.

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## B. Generator System Sizing

Please complete this section only if installing a new Solar or Wind system or modifying an existing Solar or Wind system. This section is not applicable if only adding energy storage to an existing previously interconnected Solar or Wind system.

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:             Solar                             Wind                             Both

**Estimated Annual Production:**

(1) Solar CEC-AC rating<sup>B</sup>                            \_\_\_\_\_ (kW) X 1,500<sup>C</sup> = \_\_\_\_\_ (kWh)

AND/OR (2) Wind Nameplate rating                            \_\_\_\_\_ (kW) X 2,190<sup>D</sup> = \_\_\_\_\_ (kWh)

(3) Total Energy Production                            \_\_\_\_\_ (1) + (2) = \_\_\_\_\_ (kWh)

**Estimated Annual Energy Usage:**

(Solar systems ≤ 5 kW (CEC-AC) do not need to complete this section)

(4) Recent annual usage                            \_\_\_\_\_ (kWh) X 1.0 = \_\_\_\_\_ (kWh)

OR (If 12 months usage not available) (5) Building size                            \_\_\_\_\_ (sq ft) X 3.00<sup>E</sup> = \_\_\_\_\_ (kWh)

AND (6) I plan to increase my annual usage (kWh) by                            \_\_\_\_\_ (kWh)

(7) Total Energy Usage                            (4 or 5) + (6) = \_\_\_\_\_ (kWh)

**Net Generation:**

(8) Production – Usage                            (3) – (7) = \_\_\_\_\_ (kWh)\*

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section H to read the provisions around Net Surplus Compensation (NSC).

**A Non-NEM Eligible Energy Storage System or an Energy Storage System with a Certified Power Control System (see Section R):**

Energy Storage Rating                            \_\_\_\_\_ kW

Does the energy storage system share an inverter with the NEM system?     Yes     No

If not, please provide:

<sup>B</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000  
<sup>C</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500  
<sup>D</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190  
<sup>E</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

Energy Storage Inverter Rating \_\_\_\_\_ kW

**Part III – Rate Selection**

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM2 Account:** Select one rate from the category applicable to you. NEM2 residential customers must be an applicable time-of-use rate<sup>F</sup> schedule. If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

**Part IV – Interconnection Agreement Provisions**

**A. Applicability**

This Agreement applies to Electric Schedule NEM2 Customer-Generators (Customer) who interconnect a solar and/or wind turbine electric Generating Facility, or a hybrid system of both, with an aggregate capacity of 30 kilowatts or less that is located on Customer’s premises and that operates in parallel with PG&E’s Distribution System.

**B. Permission to Operate**

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.

**C. Safety**

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, PG&E’s Electric Rule 21, and other rules approved by the CPUC regarding safety and reliability. A Customer with a solar or wind-turbine electric 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.

**D. Safe Operation of your Generating Facility**

<sup>F</sup> Schedules such as ES, ESR or ET, which have no available corresponding time-of-use rate, are not required to switch to time-of-use rates, unless and until such a rate becomes available.

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

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

## E. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

## F. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS) to establish how the Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

## G. NEM2 Billing

The Customer's meter separately measures exports and imports.

The meter is read monthly and an amount is calculated based on the net energy (kWh) and total energy(kWh) exports recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from the energy supplier in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from the energy supplier than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

Additionally, the Customer will be billed for non-bypassable charges on all imports from the grid, as describe in Schedule NEM2 Special Condition 2.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM2 billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).

## H. Net Surplus Compensation (NSC)

NSC payments are made to NEM2 customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [www.pge.com/nscoptout to complete Form 79-1130](http://www.pge.com/nscoptout to complete Form 79-1130). Participants in NEM2A, please see provisions in *NEM2 Load Aggregation Appendix (Form 79-1153)*.

## I. Limitation of Liability



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## J. 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.

## K. Governing Authority

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

## L. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM2.

## M. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.

## N. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM2.

## O. CEC Listed

In order to promote the safety and reliability of the customer's Generating Facility, the applicant certifies that as a part its request for NEM2, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.

## P. Warranties or Service Agreements

Applicant certifies as a part of its interconnection request for NEM2 that:

- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
- (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>6</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. A Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

## R. Power Control System Certification

By signing below, customer confirms that Energy Storage over 10 kW has received UL 1741 CRD for Power Control Systems (PCS) certification that will comply with either No Grid Charge or No Storage Export as defined in Schedule NEM2.

<sup>6</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments
- 2. A completed signed Interconnection Agreement
- 3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## Part V – Signature

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THE FULLY POPULATED DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY. THIS FORM MUST BE SIGNED BY THE EXISTING PG&E CUSTOMER LISTED IN PART I.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at [www.pge.com/about/company/privacy/customer], PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)



# **AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification**

Note: PG&E can request additional documentation to verify the authenticity of the externally signed Agreement and Customer Authorization.

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM2 requirements.



**Electric Sample Form No. 79-1215**  
Net Energy Metering Online Application Addendum

Sheet 1

**Please Refer to Attached  
Sample Form**

(Continued)

*Advice* 6273-E-A  
*Decision* D.21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 20, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_

# NET ENERGY METERING APPLICATION ADDENDUM

Pursuant to California Public Utilities Commission (“CPUC”) Decision 21-06-026, PG&E has been directed to collect certain information as part of the net energy metering interconnection application process.

## **SNEM/ACE-IT Application Portal Users**

If you are a residential solar customer, please fill out this form, merge it with your Solar Installation Contract so that it is 1 single PDF, then upload the package to PG&E’s application portal (PG&E’s [ACE-IT](#) or [SNEM](#) portals, as may be appropriate for your project) in the “Solar Installation Contract” document section.

- **Please note: the Solar Installation Contract field can only accommodate 1 document, so please consolidate your Solar Installation Contract and this form into 1 single document before uploading.**

## **YourProjects/SmartConnect Application Portal Users**

If you are a residential solar customer who applied for the Expanded NEM (NEMEXP or NEM2EXP) or NEM Multiple Tariffs (NEMMT or NEM2MT) programs, please fill out this form and upload it in the document uploads section marked “Consumer Protection NEM Addendum.”

### Criteria

Please review PG&E’s [SOLAR NEM CONSUMER PROTECTION REQUIREMENTS](#) to confirm whether this applies to you.

*The following are exempt from these Consumer Protection requirements:*

- *Self-installers*
- *Non-residential*
- *NEM load aggregation (NEMA) if all meters are non-residential*
- *Existing solar customers ONLY adding battery storage*
- *Residential solar interconnection applicants for new home construction, multi-family buildings, or for solar thermal systems*
- *Existing residential single-family-home applicants with a contract to install solar signed on or before September 29, 2019.*

**NOTE:** *If you do not meet the criteria outlined above, the Consumer Protection documents are mandatory.*



# NET ENERGY METERING APPLICATION ADDENDUM

## Part I – Generating Facility Information and Responsible Parties

**Customer and Generating Facility Information** (\*as it appears on the PG&E bill): (to associate this addendum to your application)

Account Holder Name* (Individual or Company)		Electric Service Agreement ID *	Meter Number*	
Service Address*		City*	State	Zip*
Customer Phone Number	Email			

### C. <sup>A</sup>System Owner

Did you indicate in your application that your project is Property Assessed Clean Energy (PACE) Financed?

Yes       No

If you checked "No" above, indicating that you have financed your project through means other than PACE financing, or if you have financed through a lease, please fill in the information below.

Financial Institution/Lessor Name			
Financial Institution/Lessor Address	City	State	Zip

<sup>A</sup> Numbering corresponds to fields in PG&E Forms 79-1151A-02 and 79-1151B-02.

# NET ENERGY METERING APPLICATION ADDENDUM

## Part I – Generating Facility Information and Responsible Parties - Continued

### E. Contractor Information

Was a Home Improvement Salesperson (HIS) involved in the development of your project?

Yes       No

California Public Utilities Commission (CPUC) Decision 21-02-026 requires “*the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license.*”

If you checked “Yes” above:

Please provide the Home Improvement Salesperson (HIS) registration number below.

Home Improvement Salesperson (HIS) registration number: \_\_\_\_\_

## Part II – Signature

**As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”). I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities without further notification or consent.**

**Customer Signature** \_\_\_\_\_

**Customer Name** \_\_\_\_\_



**ELECTRIC SAMPLE FORM NO. 79-978**

Sheet 1

Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of  
1,000 Kilowatts or Less,  
Other Than Facilities of 30 Kilowatts or Less

**Please Refer to Attached  
Sample Form**



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

This *Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 kW or Less, Other Than Facilities of 30 kW or Less* (Agreement)<sup>1</sup> is entered into by and between \_\_\_\_\_ (Customer-Generator), and Pacific Gas and Electric Company (PG&E), a California Corporation. Customer-Generator and PG&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 Customer-Generator to interconnect and operate a Generating Facility in parallel with PG&E’s Distribution System to serve the electrical loads connected to the electric service agreement ID number that PG&E uses to interconnect Customer-Generator’s Generating Facility. Customer-Generator’s Generating Facility is intended primarily to offset part or all of the Customer-Generator’s own electrical requirements. Consistent with, and in order to effectuate, the provisions of Sections 2827, 2827.7 and 2827.8 of the California Public Utilities Code and PG&E’s electric rate Schedule NEM (NEM), Parties enter into this Agreement. This Agreement applies to the Customer-Generator’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 AND DESCRIPTION OF CUSTOMER-GENERATOR’S GENERATING FACILITY AND DESIGNATION OF OTHERWISE-APPLICABLE RATE SCHEDULE

2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Customer-Generator’s Generating Facility and loads are interconnected with PG&E’s Distribution System, is attached to and made a part of this Agreement. (This description is supplied by Customer-Generator as Appendix A).

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Customer-Generator’s electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service agreement ID number used to interconnect the Generating Facility with PG&E’s Distribution System:

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

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

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

<sup>1</sup> Additional forms are available on PG&E’s website at <http://www.pge.com/gen>.

† Information collected on this form is used in accordance with PG&E’s Privacy Policy. The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

2.5 Interconnected Equipment:

List of generating equipment interconnected with, or without, an inverter to PG&E. (For those generators interconnecting without an inverter, write in "N/A" in the right three columns. If an inverter is shared by more than one generator, write "shared" on the same line as that generator under the manufacturer column and do not enter the inverter rating. Attach list of additional equipment, if applicable.)

	Type of Generator (Solar / Wind / Hybrid)	Generator Rating (watts)	Manufacturer of Inverter used with Generator (if Applicable)	Inverter Model Number (if Applicable)	Inverter Rating (watts) <sup>2</sup> (if Applicable)
1					
2					

2.6 Customer-Generator's otherwise-applicable rate schedule under the provisions of Schedule NEM will be \_\_\_\_\_.

2.7 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.

2.8 If the date of the permits allowing the Customer-Generator to commence construction of the Generating Facility is prior to January 1, 2003, please provide the date the permits were issued: \_\_\_\_\_.

2.9 Smart Inverters - For Customer-Generator applications received on or after September 9, 2017, the Customer-Generator certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings **and default settings**, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer-Generator inverter. Customer-Generator further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer-Generator understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer-Generator will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>)

<sup>2</sup> If installing an inverter, the inverter rating equals: (the CEC efficiency for each installed inverter) TIMES (the nameplate rating, in kW, of each inverter). The CEC efficiency is obtained on the CEC website at [http://www.consumerenergycenter.org/erprebate/eligible\\_inverters.html](http://www.consumerenergycenter.org/erprebate/eligible_inverters.html) as listed on the date the application is reviewed. Enter the total of all inverter ratings for multiple inverter installations in the Table above.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

Verification of inverter model's compliance with such requirements shall be provided by the Customer-Generator upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that **meets one or more of the following conditions:**

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer-Generator has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer-Generator provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>3</sup> no later than March 31, 2018, or
- (d) the Customer-Generator provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

**All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21.** Customer-Generator replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### 3. DOCUMENTS INCLUDED AND DEFINED TERMS

3.1 This Agreement includes the following exhibits that are specifically incorporated herein and made a part of this Agreement.

Appendix A Description of Generating Facility and Single-Line Diagram (Supplied by Customer-Generator).

---

<sup>3</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments,
- 2. A completed signed Interconnection Agreement,
- 3. Evidence of the Customer-Generator final inspection clearance from the governmental authority having jurisdiction over the generating system.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

Appendix B A Copy of PG&E's Agreement for Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527), if applicable (Formed by the Parties).

In addition, PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM, and Customer-Generator's otherwise-applicable rate schedule, available at PG&E's website at [www.pge.com](http://www.pge.com) or by request, are specifically incorporated herein and made part of this Agreement.

3.2 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 PG&E's Electric Rule 21, Section C.

## 4. CUSTOMER BILLING AND PAYMENT

Customer-Generator initially selects Pacific Gas and Electric Company's electric rate schedule referenced in Section 2.6 of this Agreement as its otherwise-applicable rate schedule. Customer-Generator understands that they will be billed according to the otherwise-applicable rate schedule and Schedule NEM.

## 5. TERM AND TERMINATION

5.1 This Agreement shall become effective as of the last date entered in Section 18 below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

- (a) The Parties agree in writing to terminate the Agreement.
- (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service agreement ID number through which Customer-Generator's Generating Facility is interconnected to PG&E is closed or terminated.
- (c) At 12:01 A.M. on the 61<sup>st</sup> day after Customer-Generator or PG&E provides written Notice pursuant to Section 11 below to the other Party of Customer-Generator's or PG&E's intent to terminate this Agreement.

5.2 Customer-Generator may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for one or more of the following reasons:

- (a) A change in applicable rules, tariffs, or regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,

# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

- (b) Customer-Generator fails to take all corrective actions specified in PG&E's Notice that Customer-Generator's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Customer-Generator abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its sole opinion, the Generating Facility is nonoperational and Customer-Generator does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Customer-Generator's apparent abandonment of the Generating Facility affirming Customer-Generator's intent and ability to continue to operate the Generating Facility; or,
  - (d) Customer-Generator's Generating Facility ceases to meet all applicable safety and performance standards set out in Section 6.
- 5.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 5.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

## 6. GENERATING FACILITY REQUIREMENTS

- 6.1 Customer-Generator's Generating Facility must meet 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 Commission regarding safety and reliability including Rule 21.
- 6.2 Customer-Generator shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 6.1, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Customer-Generator shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Customer-Generator's Generating Facility.
- 6.3 Customer-Generator shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided no later than thirty (30) business days following PG&E's receipt of: (1) a completed *Generating Facility Interconnection Application for Non-Export or Certain Net Energy Metered Generating Facilities (between 30 kW and 1,000 kW)* (Form 79-974), including all supporting documents and payments as described in the Application; (2) a completed *Expanded Net Energy Metering (NEM) Supplemental Application* (Form 79-998); (3) a signed and completed *Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 KW or Less, Other Than Facilities of 30 KW or Less* (Form 79-978); and (4) a copy of the Customer-Generator's final inspection clearance from the governmental authority



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.

## 7. INTERCONNECTION FACILITIES

- 7.1 Customer-Generator and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Distribution System, personnel, and other persons from damage or injury, which may be caused by the operation of Customer-Generator's Generating Facility.
- 7.2 Customer-Generator shall be solely responsible for the costs, design, purchase, construction, permitting, operation, and maintenance of the Interconnection Facilities that Customer-Generator owns.
- 7.3 If the provisions of PG&E's Electric Rule 21, or any other tariff or rule approved by the Commission, require PG&E to own and operate a portion of the Interconnection Facilities, Customer-Generator and PG&E shall promptly execute a Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix B.

## 8. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## 9. INSURANCE

Customer-Generator Facility is required to comply with standards and rules set forth in section 6 and provide the following for insurance policies in place.

Customer-Generator shall furnish the required certificates and all endorsements to PG&E prior to Parallel Operation.

The certificate shall provide thirty (30) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.

- 9.1 If at any time during this agreement the Customer-Generator fails to meet the requirements in section 6 and is not self-insured under Section 9.3, the following insurance shall apply:



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

Customer-Generator shall procure and maintain a commercial general liability insurance policy at least as broad as the Insurance Services Office (ISO) commercial general liability coverage "occurrence" form; or, if Customer-Generator is an individual, then liability coverage with respect to premises and use at least as broad as the ISO homeowners' or personal liability Insurance occurrence policy form, or substitute, providing equivalent coverage no less than the following limits, based on generator size:

- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than one hundred (100) kW; or
- (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; or
- (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is twenty (20) kW or less;
- (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is ten (10) kW or less and the Generating Facility is connected to an account receiving residential service from PG&E.

The insurance shall, by endorsement:

- (a) Add PG&E as an additional insured;
- (b) State that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- (c) Contain a severability of interest clause or cross-liability clause.

9.2 If Customer-Generator's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section 9.1 prevents Customer-Generator from obtaining the insurance required in this Section, then upon Customer-Generator's written Notice to PG&E in accordance with Section 11.1, the requirements of Section 9.1 may be waived.

9.3 Customer-Generator may self-insure with approval from PG&E. Evidence of an acceptable plan to self-insure, at least thirty (30) calendar days' prior to operations shall be submitted. Customer-Generators such as state agencies that self-insure under this section are exempt from Section 10.1.

If Customer-Generator ceases to self-insure to the level required hereunder, or if Customer-Generator is unable to provide continuing evidence of Customer-Generator's ability to self-insure, Customer-Generator agrees to immediately obtain the coverage required under agreement.



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

9.4 All required certificates, endorsements or letters of self-insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company
Attention: Electric Grid Interconnection – Contract Management
P.O. Box 770000
Mail Code N7LSan Francisco, CA 94177
Email: EGContractMgmt@pge.com

10. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS

10.1 If Customer-Generator fails to comply with the insurance provisions of this Agreement, Customer-Generator shall, at its own cost, defend, save harmless and indemnify PG&E, its directors, officers, employees, agents, assignees, and successors in interest from and against any and all loss, liability, damage, claim, cost, charge, demand, or expense of any kind or nature (including attorney's fees and other costs of litigation) resulting from the death or injury to any person or damage to any property, including the personnel and property of the utility, to the extent that the utility would have been protected had Customer-Generator complied with all such insurance provisions. The inclusion of this Section 10.1 is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.

10.2 The provisions of this Section 10 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.

11. NOTICES

11.1 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 PG&E: Pacific Gas and Electric Company
Attention: Electric Grid Interconnection – Contract Management
P.O. Box 770000
Mail Code N7L
San Francisco, CA 94177
Email: EGContractMgmt@pge.com

If to Customer-Generator:

Customer-Generator Name: \_\_\_\_\_

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

City: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

- 11.2 A Party may change its address for Notices at any time by providing the other Party notice of the change in accordance with Section 11.1.
- 11.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

## **12. REVIEW OF RECORDS AND DATA**

- 12.1 PG&E shall have the right to review and obtain copies of Customer-Generator's operations and maintenance records, logs, or other information such as Generating Facility availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Customer-Generator's Generating Facility or its interconnection to PG&E.
- 12.2 Customer-Generator authorizes to release to the California Energy Commission (CEC) information regarding Customer-Generator'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.
- 12.3 As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Customer-Generator authorizes PG&E to release any and all information contained in its application, and addendum if applicable, for interconnection to the State Entities identified in this Section 12.3 without further notification or consent.

## **13. ASSIGNMENT**

Customer-Generator shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Customer-Generator makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Customer-Generator's assignment of this Agreement.

## **14. NON-WAIVER**

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.

## **15. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E's TARIFF SCHEDULES AND RULES**



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING OF SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF 1,000  
kW OR LESS, OTHER THAN FACILITIES OF  
30 kW OR LESS

---

- 15.1 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.
  
- 15.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

- 15.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.
15.4 Notwithstanding any other provisions of this Agreement, PG&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.

16. AMENDMENT AND MODIFICATION

This Agreement can only be amended or modified by a writing signed by both Parties.

17. 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.

18. SIGNATURES

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

CUSTOMER-GENERATOR'S NAME PACIFIC GAS AND ELECTRIC COMPANY
By: \_\_\_\_\_ By: \_\_\_\_\_
Name: \_\_\_\_\_ Name: \_\_\_\_\_
Title: \_\_\_\_\_ Title: Manager,
Electric Grid Interconnection
Date: \_\_\_\_\_ Date: \_\_\_\_\_



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING OF SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF 1,000  
kW OR LESS, OTHER THAN FACILITIES OF  
30 kW OR LESS

---

APPENDIX A  
DESCRIPTION OF GENERATING FACILITY  
AND SINGLE-LINE DIAGRAM  
(Provided by Customer-Generator)



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING OF SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF 1,000  
kW OR LESS, OTHER THAN FACILITIES OF  
30 kW OR LESS

---

APPENDIX B  
(If Applicable)

Any Rule 2 or Rule 21 Agreements for the Installation or Allocation of  
Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to  
Perform Any Tariff Related Work (62-4527)  
(Formed between the Parties)



**Electric Sample Form No. 79-978-02**

Sheet 1

Interconnection Agreement for Net Energy Metering (NEM2) of Solar or  
Wind Electric Generating Facilities of 1,000 Kilowatts or Less, Other than Facilities of 30 Kilowatts or  
Less

**Please Refer to Attached  
Sample Form**



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

This *Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities of 1,000 kW or Less, Other Than Facilities of 30 kW or Less* (Agreement)<sup>1</sup> is entered into by and between \_\_\_\_\_ (Customer-Generator), and Pacific Gas and Electric Company (PG&E), a California Corporation. Customer-Generator and PG&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 Customer-Generator to interconnect and operate a Generating Facility in parallel with PG&E’s Electric System to serve the electrical loads connected to the electric service agreement ID number that PG&E uses to interconnect Customer-Generator’s Generating Facility. Customer-Generator’s Generating Facility is intended primarily to offset part or all of the Customer-Generator’s own electrical requirements. Consistent with, and in order to effectuate, the provisions of Sections 2827, 2827.7 and 2827.8 of the California Public Utilities Code and PG&E’s electric rate Schedule NEM2 (NEM2), Parties enter into this Agreement. This Agreement applies to the Customer-Generator’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 AND DESCRIPTION OF CUSTOMER-GENERATOR’S GENERATING FACILITY AND DESIGNATION OF OTHERWISE-APPLICABLE RATE SCHEDULE

2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Customer-Generator’s Generating Facility and loads are interconnected with PG&E’s Electric System, is attached to and made a part of this Agreement. (This description is supplied by Customer-Generator as Appendix A).

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Customer-Generator’s electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service agreement ID number used to interconnect the Generating Facility with PG&E’s Electric System:

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

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

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

<sup>1</sup> Additional forms are available on PG&E’s website at <http://www.pge.com/gen>.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

---

- 2.5 The Gross Nameplate Rating of the Generating Facility is: \_\_\_\_\_ kW.
- 2.6 The Net Nameplate Rating of the Generating Facility is \_\_\_\_\_ kW.
- 2.7 Customer-Generator's otherwise-applicable rate schedule as of the execution of this Agreement \_\_\_\_\_.
- 2.8 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.
- 2.9 Smart Inverters - For Customer-Generator applications received on or after September 9, 2017, the Customer-Generator certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings **and default settings**, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer-Generator's inverter. Customer-Generator further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer-Generator understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer-Generator will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar Inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)

Verification of compliance with such requirements shall be provided by the Customer-Generator upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer-Generator has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer-Generator provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>2</sup> no later than March 31, 2018, or

---

<sup>2</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments,
- 2. A completed signed Interconnection Agreement,
- 3. Evidence of the Customer-Generator final inspection clearance from the governmental authority having jurisdiction over the generating system.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

- (d) the Customer-Generator provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

**All “existing inverters” are not required to be Smart Inverters and are only subject to Section H of Rule 21.** Customer-Generator replacing an “existing inverter” certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged);  
or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### 3. DOCUMENTS INCLUDED AND DEFINED TERMS

- 3.1 This Agreement includes the following exhibits that are specifically incorporated herein and made a part of this Agreement.

Appendix A Description of Generating Facility and Single-Line Diagram (Supplied by Customer-Generator).

Appendix B A Copy of *PG&E’s Agreement for Installation or Allocation of Special Facilities* (Forms 79-255, 79-280, 79-702) or *Agreements to Perform Any Tariff Related Work (62-4527)*, if applicable (Formed by the Parties).

Appendix C NEM2 Load Aggregation Customer-Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel

In addition, PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM2, and Customer-Generator’s otherwise-applicable rate schedule, available at PG&E’s website at [www.pge.com](http://www.pge.com) or by request, are specifically incorporated herein and made part of this Agreement.

- 3.2 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 PG&E’s Electric Rule 21, Section C.

### 4. CUSTOMER BILLING AND PAYMENT

Customer-Generator initially selects Pacific Gas and Electric Company’s electric rate schedule referenced in Section 2.6 of this Agreement as its otherwise-applicable rate schedule. Customer-Generator understands that they will be billed according to the otherwise-applicable rate schedule and Schedule NEM2.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

## 5. TERM AND TERMINATION

- 5.1 This Agreement shall become effective as of the last date entered in Section 18 below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:
- (a) The Parties agree in writing to terminate the Agreement.
  - (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service agreement ID number through which Customer-Generator's Generating Facility is interconnected to PG&E is closed or terminated.
  - (c) At 12:01 A.M. on the 61<sup>st</sup> day after Customer-Generator or PG&E provides written Notice pursuant to Section 11 below to the other Party of Customer-Generator's or PG&E's intent to terminate this Agreement.
- 5.2 Customer-Generator may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for one or more of the following reasons:
- (a) A change in applicable rules, tariffs, or regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
  - (b) Customer-Generator fails to take all corrective actions specified in PG&E's Notice that Customer-Generator's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Customer-Generator abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its sole opinion, the Generating Facility is nonoperational and Customer-Generator does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Customer-Generator's apparent abandonment of the Generating Facility affirming Customer-Generator's intent and ability to continue to operate the Generating Facility; or,
  - (d) Customer-Generator's Generating Facility ceases to meet all applicable safety and performance standards set out in Section 6.
- 5.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 5.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

## 6. GENERATING FACILITY REQUIREMENTS

- 6.1 Customer-Generator's Generating Facility must meet 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 Commission regarding safety and reliability including Rule 21.
- 6.2 Customer-Generator shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 6.1, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Customer-Generator shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Customer-Generator's Generating Facility.
- 6.3 Customer-Generator shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided no later than thirty (30) business days following PG&E's receipt of: (1) a completed *Generating Facility Interconnection Application for Non-Export or Certain Net Energy Metered Generating Facilities* (Form 79-974-02), including all supporting documents and payments as described in the Application; (2) a signed and completed *Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities, Other Than Facilities of 30 KW or Less* (Form 79-978-02); and (3) a copy of the Customer-Generator's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.
- 6.4 In order to promote the safety and reliability of the customer Generating Facility, the Customer-Generator certifies that as a part of this interconnection request for NEM2, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.
- 6.5 Customer-Generator certifies as a part of this interconnection request for NEM2 that
- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
  - (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.
- 6.6 Customers on this tariff must pay for the interconnection of their Generation Facilities as provided in Electric Rule 21, pursuant to Decision 16-01-044.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

## 7. INTERCONNECTION FACILITIES

- 7.1 Customer-Generator and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Electric System, personnel, and other persons from damage or injury, which may be caused by the operation of Customer-Generator's Generating Facility.
- 7.2 Customer-Generator shall be solely responsible for the costs, design, purchase, construction, permitting, operation, and maintenance of the Interconnection Facilities that Customer-Generator owns.
- 7.3 If the provisions of PG&E's Electric Rule 21, or any other tariff or rule approved by the Commission, require PG&E to own and operate a portion of the Interconnection Facilities, Customer-Generator and PG&E shall promptly execute a Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix B.

## 8. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## 9. INSURANCE

Customer-Generator Facility is required to comply with standards and rules set forth in Section 6 and provide the following for insurance policies in place.

Customer-Generator shall furnish the required certificates and all endorsements to PG&E prior to Parallel Operation.

The certificate shall provide thirty (30) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.

- 9.1 If at any time during this agreement the Customer-Generator fails to meet the requirements in Section 6 and is not self-insured under Section 9.3, the following insurance shall apply:

Customer-Generator shall procure and maintain a commercial general liability insurance policy at least as broad as the Insurance Services Office (ISO) commercial general liability coverage "occurrence" form; or, if Customer-Generator is an individual, then liability coverage with respect to premises and use at least as broad as the ISO homeowners' or personal liability Insurance occurrence policy form, or substitute, providing equivalent coverage no less than the following limits, based on generator size:

# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

---

- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than one hundred (100) kW; or
- (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; or
- (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is twenty (20) kW or less;
- (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is ten (10) kW or less and the Generating Facility is connected to an account receiving residential service from PG&E.

The insurance shall, by endorsement:

- (a) Add PG&E as an additional insured;
  - (b) State that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
  - (c) Contain a severability of interest clause or cross-liability clause.
- 9.2 If Customer-Generator's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section 9.1 prevents Customer-Generator from obtaining the insurance required in this Section, then upon Customer-Generator's written Notice to PG&E in accordance with Section 11.1, the requirements of Section 9.1 may be waived.
- 9.3 Customer-Generator may self-insure with approval from PG&E. Evidence of an acceptable plan to self-insure, at least thirty (30) calendar days' prior to operations shall be submitted. Customer-Generators such as state agencies that self-insure under this section are exempt from Section 10.1.

If Customer-Generator ceases to self-insure to the level required hereunder, or if Customer-Generator is unable to provide continuing evidence of Customer-Generator's ability to self-insure, Customer-Generator agrees to immediately obtain the coverage required under agreement.

- 9.4 All required certificates, endorsements or letters of self-insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection – Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: [EGIContractMgmt@pge.com](mailto:EGIContractMgmt@pge.com)



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

10. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS

- 10.1 If Customer-Generator fails to comply with the insurance provisions of this Agreement, Customer-Generator shall, at its own cost, defend, save harmless and indemnify PG&E, its directors, officers, employees, agents, assignees, and successors in interest from and against any and all loss, liability, damage, claim, cost, charge, demand, or expense of any kind or nature (including attorney's fees and other costs of litigation) resulting from the death or injury to any person or damage to any property, including the personnel and property of the utility, to the extent that the utility would have been protected had Customer-Generator complied with all such insurance provisions. The inclusion of this Section 10.1 is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.
10.2 The provisions of this Section 10 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.

11. NOTICES

- 11.1 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 PG&E: Pacific Gas and Electric Company
Attention: Electric Grid Interconnection – Contract Management
P.O. Box 770000
Mail Code N7L
San Francisco, CA 94177
Email: EGContractMgmt@pge.com

If to Customer-Generator:

Customer-Generator Name: \_\_\_\_\_
Address: \_\_\_\_\_
City: \_\_\_\_\_
Phone: (\_\_\_\_) \_\_\_\_\_
FAX: (\_\_\_\_) \_\_\_\_\_

- 11.2 A Party may change its address for Notices at any time by providing the other Party notice of the change in accordance with Section 11.1.
11.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

## 12. REVIEW OF RECORDS AND DATA

- 12.1 PG&E shall have the right to review and obtain copies of Customer-Generator's operations and maintenance records, logs, or other information such as Generating Facility availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Customer-Generator's Generating Facility or its interconnection to PG&E.
- 12.2 Customer-Generator authorizes to release to the California Energy Commission (CEC) information regarding Customer-Generator'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.
- 12.3 As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Customer-Generator authorizes PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities without further notification or consent.

## 13. ASSIGNMENT

Customer-Generator shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Customer-Generator makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Customer-Generator's assignment of this Agreement.

## 14. NON-WAIVER

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.

## 15. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E's TARIFF SCHEDULES AND RULES

- 15.1 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.
- 15.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.
- 15.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules



**INTERCONNECTION AGREEMENT FOR NET ENERGY  
METERING (NEM2) OF SOLAR OR WIND ELECTRIC  
GENERATING FACILITIES OF 1,000 KW OR LESS,  
OTHER THAN FACILITIES OF 30 KW OR LESS**

---

applicable to the electric service provided by PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.

15.4 Notwithstanding any other provisions of this Agreement, PG&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.

**16. AMENDMENT AND MODIFICATION**

This Agreement can only be amended or modified by a writing signed by both Parties.

**17. 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.

**18. SIGNATURES**

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

<i>(Customer Generator's Name)</i>	<b>PACIFIC GAS AND ELECTRIC COMPANY</b>
<i>(Signature)</i>	<i>(Signature)</i>
<i>(Print Name)</i>	<i>(Print Name)</i>
<i>(Title)</i>	<i>(Title)</i>
<i>(Date)</i>	<i>(Date)</i>



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING (NEM2) OF SOLAR OR  
WIND ELECTRIC GENERATING FACILITIES OF  
1,000 kW OR LESS, OTHER THAN FACILITIES  
OF 30 kW OR LESS

---

APPENDIX A

DESCRIPTION OF GENERATING FACILITY  
AND SINGLE-LINE DIAGRAM

(Provided by Customer-Generator)



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING (NEM2) OF SOLAR OR  
WIND ELECTRIC GENERATING FACILITIES OF  
1,000 kW OR LESS, OTHER THAN FACILITIES  
OF 30 kW OR LESS

---

APPENDIX B (If Applicable)

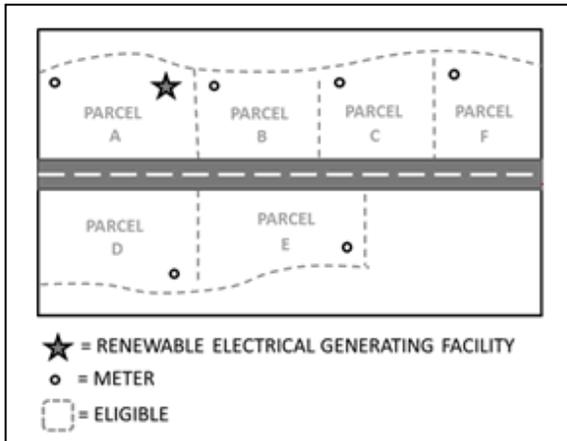
Any Rule 2 or Rule 21 Agreements for the Installation or  
Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or  
Agreements to Perform Any Tariff Related Work (62-4527)  
(Formed between the Parties)

# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

## Appendix C NEM LOAD AGGREGATION APPENDIX (If Applicable) Customer-Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel

In accordance with Schedule NEM2, I, Customer-Generator represent and warrant under penalty of perjury that:

- 1) The total annual output in kWh of the generator is less than or equal to 100% of the annual aggregated electrical load in kWh of the meters within the arrangement, including the load on the generating account itself (before being offset by the generator), and including any estimated future additional load; and
- 2) Each of the aggregated account meters associated with this NEM2 generator account are located either:
  - (i) on the property where the renewable electrical generation facility is located, or
  - (ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator.



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

- 3) PG&E reserves the right to request a parcel map to confirm the property meets the requirements of 2) above; and
- 4) Customer-Generator agrees to notify PG&E if there is any change of status that makes any of the participating meters ineligible for meter aggregation to ensure that only eligible meters are participating; PG&E will require an updated Appendix and Declaration form; and
- 5) Upon request by PG&E, I agree to provide documentation that all aggregated meters meet the requirements of Rate Schedule NEM2 Special Condition 6 including but not limited to parcel maps and ownership records.

\_\_\_\_\_ *Customer Generator's Name*

\_\_\_\_\_ *Signature*

\_\_\_\_\_ *Date*

\_\_\_\_\_ *Type/Print Name*

\_\_\_\_\_ *Title*



**ELECTRIC TABLE OF CONTENTS**

Sheet 1

**TABLE OF CONTENTS**

<b>SCHEDULE</b>	<b>TITLE OF SHEET</b>	<b>CAL P.U.C. SHEET NO.</b>	
Title Page.....		<b>51239-E</b>	(T)
Rate Schedules.....	48262,48263,48264,48265,48266,49647,47616,49654,48268-E		
Preliminary Statements.....	48269,48064,48075,41723,49327,48076,51192-E		
Rules.....	50556,49742,48369-E		
Maps, Contracts and Deviations.....	37960-E		
Sample Forms.....	47207,49743,49301, <b>51240</b> , 49303,49304,		(T)
.....	<b>51241,51242</b> ,49307,49308,49309,49310,49311-E		(T)

(Continued)

Advice 6273-E-A  
Decision D.21-06-026

Issued by  
**Robert S. Kenney**  
Vice President, Regulatory Affairs

Submitted August 20, 2021  
Effective \_\_\_\_\_  
Resolution \_\_\_\_\_



**ELECTRIC TABLE OF CONTENTS**

Sheet 25

FORM	TITLE OF SHEET	CAL P.U.C. SHEET NO.
<b>Sample Forms</b>		
<b>Rule 21 Generating Facility Interconnections (Cont'd)</b>		
79-1174-02	Rule 21 Generator Interconnection Application.....	49266-E
79-1174-02A	Rule 21 Generator Interconnection Application – Attachment A .....	49769-E
79-1174-02B	Rule 21 Generator Interconnection Application – Attachment B .....	49268-E
79-1174-02C	Rule 21 Generator Interconnection Application – Attachment C .....	49269-E
79-1174-02D	Rule 21 Generator Interconnection Application – Attachment D .....	<b>51233-E</b>
79-1174-02E	Rule 21 Generator Interconnection Application – Attachment E .....	49271-E
79-1174-02F	Rule 21 Generator Interconnection Application – Attachment F .....	49272-E
79-1174-02G	Rule 21 Generator Interconnection Application – Attachment G .....	49273-E
79-1174-02H	Rule 21 Generator Interconnection Application – Attachment H .....	49274-E
79-1174-02I	Rule 21 Generator Interconnection Application – Attachment I.....	49275-E
79-1174-02J	Rule 21 Generator Interconnection Application – Attachment J.....	49276-E
79-1174-02K	Rule 21 Generator Interconnection Application – Attachment K .....	49277-E
79-1174-02L	Rule 21 Generator Interconnection Application – Attachment L.....	49278-E
79-1174-02M	Rule 21 Generator Interconnection Application – Attachment M.....	49279-E
79-1174-02N	Rule 21 Generator Interconnection Application – Attachment N .....	49280-E
79-1175	Rule 21 Consent to Assignment Form for Non-NEM Projects.....	48657-E
79-1181	Rule 21 Pre-Application Report Request .....	48663-E
79-1191	Generating Facility Interconnection Agreement For Local Government Renewable Energy Self- Generation Bill Credit Transfer (RES-BCT).....	49295-E
79-1197	Local Government Renewable Energy Self-Generation Bill Credit Transfer (RES-BCT) Re- Allocation Request .....	48676-E
79-1198-02	Interconnection Agreement for Net Energy Metering (NEM2) and Renewable Electrical Generating Facility Sized Greater than 1,000 kW .....	50574-E
79-1199	Agreement and Customer Authorization Non-Export Standalone Energy Storage of 30 Kilowatts or Less .....	48678-E
79-1200	Rule 21 Generator Interconnection Agreement for Exporting Generating Facilities .....	48679-E
79-1204	Pilot Pedestal Program Application .....	48680-E
79-1211	Generating Facility Material Modification Notification Worksheet.....	50316-E

(T)

(Continued)



**ELECTRIC TABLE OF CONTENTS**

Sheet 28

<b>FORM</b>	<b>TITLE OF SHEET</b>	<b>CAL P.U.C. SHEET NO.</b>
	Sample Forms Net Energy Metering	
79-978	Interconnection Agreement for NEM of Solar or Wind Electric Generating Facilities 1,000 kW or less, other than Residential or Small Commercial Facilities of 10 kW or Less .....	<b>51237-E</b> (T)
79-978-02	Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, Other than Facilities of 30 Kilowatts or Less .....	<b>51238-E</b> (T)
79-997	Interconnection Agreement for Net Energy Metering of Biogas Digester Generating Facilities .....	50581-E
79-999	Agreement for Limited Optional Remote Metering Service .....	48710-E
79-1002	Customer Generation Departing Nonbypassable Charge.....	48556-E
79-1010	Interconnection Agreement for Net Energy Metering of Fuel Cell Generating Facilities .....	50565-E
79-1069	Generating Facility Interconnection Agreement (Eligible/Non-Eligible Net Generating Facility Export) .....	<b>51227-E</b> (T)
79-1069-02	Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT) .....	<b>51228-E</b> (T)
79-1109	Net Energy Metering Application and Interconnection Agreement for the Building Owner of a Multifamily Affordable Solar Housing Facility with a Solar Generating Facility of 1 Megawatt or Less .....	48598-E
79-1109-02	NEM2VMSH Virtual NEM Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less .....	48599-E
79-1114	NEM 2010 Early True-up Request Form .....	48603-E
79-1124	Eligible Low Income Development Virtual NEM Application and Interconnection Agreement for Multi-Family Affordable Housing with Solar Generation Totaling 1 Megawatt or Less.....	48609-E
79-1124-02	Eligible Low Income Development Virtual NEM (NEM2VMSH) Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 MW or Less...	48610-E
79-1125	NEM / NEMVMASH Inspection Report.....	48611-E
79-1130	Customer Request Form not to Receive Net Surplus Compensation.....	48616-E
79-1131	NEM Application and Interconnection Agreement for an Eligible Generating Facility of 1MW or Less Serving Multiple Tenants .....	48617-E
79-1131-02	NEM2V Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less.....	48618-E
79-1137	Interconnection Agreement for Net Metering for a Renewable Electrical Generation Facility of 1,000 Kilowatts or Less.....	50569-E
79-1137-02	Interconnection Agreement for Net Energy Metering (NEM2/NEM2V) for a Renewable Electricity Generation Facility of 1,000 Kilowatts or Less, Except Solar or Wind .....	50570-E
79-1142	NEMV Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less .....	48624-E
79-1151A	Agreement and Customer Authorization – Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less.....	<b>51229-E</b> (T)
79-1151A-02	Agreement And Customer Authorization - Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less .....	<b>51230-E</b> (T)
79-1151B	Application – Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less .....	<b>51231-E</b> (T)
79-1151B-02	Application - Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less .....	<b>51232-E</b> (T)
79-1153	NEM Load Aggregation Appendix .....	48635-E
79-1153-02	NEM2A Load Aggregation Appendix .....	49230-E
79-1155	Schedules NEM, NEMV, NEMVMASH, NSE Renewable Energy Credits Compensation .....	48638-E
79-1155-02	Schedules NEM2, NEM2V, NEM2VMSH, Net Surplus Electricity (NSE) Renewable Energy Credits Compensation.....	48639-E
79-1189	Eligible Low Income Development Virtual Net Energy Metering (NEM2VMSH) Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 MW or Less...	48667-E

(Continued)



**ELECTRIC TABLE OF CONTENTS**

Sheet 29

FORM	TITLE OF SHEET	CAL P.U.C. SHEET NO.
<b>Sample Forms</b>		
<b>Net Energy Metering</b>		
79-1190	Virtual Net Energy Metering (NEM2V) Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less.....	49232-E
79-1192	Interconnection Agreement for Non-Export Storage Generating Facilities 500KW or Less.....	50573-E
79-1193	Agreement and Customer Authorization Net Energy Metering Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less Paired with Energy Storage of 10 Kilowatts or Less .....	51234-E (T)
79-1193-02	Agreement and Customer Authorization Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less Paired with Energy Storage of 10 Kilowatts or Less .....	51235-E (T)
79-1195	Eligible Low Income Development Virtual Net Energy Metering (NEMVMASH) Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 MW or Less.....	48674-E
79-1196	Virtual Net Energy Metering (NEMV) Interconnection Agreement for Solar (PV) or Wind Generation Totaling 1 MW or Less.....	48675-E
79-1202	Load Aggregation Appendix .....	49235-E
79-1206-02	Eligible Low-Income Development Virtual Net Energy Metering(NEM2VSOM) Interconnection Agreement For The Solar On Multifamily Affordable Housing(SOMAH) Program w/ Solar Generation Totaling 1 Mw Or Less .....	48682-E
79-1215	Net Energy Metering Online Application Addendum.....	51236-E (N)
<b>Sample Forms</b>		
<b>Street, Highway, and Area Lighting</b>		
79-938	Customer-Owned Streetlights Pacific Gas and Electric Company Pole Contract Agreement.....	48695-E
79-1007	Request to Install or Energize Street Light Schedule: LS-1, LS-2 and OL-1. Energy Billing Information for Initial and Subsequent Installations .....	48560-E
79-1008	Request to De-Energize or Remove Street Light Schedule: LS-1, LS-2 and OL-1 Energy Billing Information .....	48561-E
79-1048	Agreement for Unmetered Low Wattage Equipment Connected to Customer-Owned Street Light Facilities .....	48577-E
79-1048A	Agreement for Unmetered Low Wattage Equipment Connected to Customer-Owned Street Light Facilities .....	45534-E
79-1078	Attachment A to Agreement for Unmetered Electric Service to Wireless Devices Energized by Connection to Pacific Gas and Electric Company Street Light Facilities .....	49225-E
79-1105	Agreement for Unmetered Electric Service to Seasonal Lighting Loads Connected to Festoon Outlets on Pacific Gas and Electric Company's Street Light Facilities .....	49226-E
79-1129	Special Contract for Unmetered Service Agreement for Energy Use Adjustments for Network Controlled Dimmable Streetlights Limited Pilot Program .....	48615-E
79-1177	Special Contract for Unmetered Service Agreement for Energy Use Adjustments for Network Controlled Dimmable Streetlights - 2014 Pilot Program .....	48659-E
<b>Sample Forms</b>		
<b>Commercial, Industrial, and Agricultural</b>		
79-759	Supplemental Agreement for As-Available Capacity .....	48688-E
79-1111	Optimal Billing Period Service Election Form .....	48601-E
79-1154	Agreement for Economic Development Rate on Electric Service.....	48637-E

(Continued)

Advice 6273-E-A  
August 20, 2021

## **Attachment 2**

### **Redline Tariff Revisions**



**Electric Sample Form No. 79-1069**  
Generating Facility Interconnection Agreement (Multiple Tariff)

Sheet 1

**Please Refer to Attached  
Sample Form**

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

This *Generating Facility Interconnection Agreement (Multiple Tariff)* (Agreement) is entered into by and between \_\_\_\_\_ (Producer), and Pacific Gas and Electric Company (PG&E) a California Corporation. Producer and PG&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 Producer to interconnect and operate a Generating Facility in parallel with PG&E’s Distribution System to serve the electrical loads at the location identified in Section 2.4 (or for the qualifying energy where permitted under Section 218 of the California Public Utilities Code (PUC). The Generating Facility may be any combination of generators, but must include at least one “Eligible customer-generator.” Eligible customer-generators consist of any Renewable Electrical Generation Facility(ies) (as defined in PG&E’s Schedule NEM) or Eligible Fuel Cell Electrical Generating Facility(ies) (as defined in PG&E’s Schedule NEMFC).

- 1.1. This Agreement provides for Producer to operate the Eligible Generator(s) pursuant to the provisions of Section 2827 et seq. of the PU Code and the applicable PG&E tariffs for net energy metering. This Agreement also provides for Producer to operate its Non-Eligible Generator(s). This Agreement does not provide for retail electrical service by PG&E to Producer. Such arrangements must be made separately between PG&E and Producer.
- 1.2. This Agreement does not address Producer’s account billing and payment for energy consumption. For the Generating Facility as specified in Section 2 of this Agreement, please refer to the applicable PG&E net-energy-metered (NEM) tariff schedules for billing and payment protocol.
- 1.3. NEM Transition - Customers receiving service on the current NEM tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedule NEM at: [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_SCHEDS\\_NEM.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHEDS_NEM.pdf) for more details.

## 2. SUMMARY AND DESCRIPTION OF PRODUCER’S GENERATING FACILITY

- 2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Producer’s Generating Facility and loads are interconnected with PG&E’s Distribution System, are attached to and made a part of this Agreement. (Supplied by Producer as Appendix A).



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Producer's electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service account used to interconnect the Generating Facility with PG&E's Distribution System:

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

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

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

2.5 The Gross Nameplate Rating of the Generating Facility is:

2.5.1 Eligible Generator(s):

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	

2.5.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.5.3 **Total Gross** Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.6 The Net Nameplate Rating of the Generating Facility is:

2.6.1 Eligible Renewable Electrical Generation Facility Generator(s):



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

Table with 2 columns and 7 rows listing generating facility types and their kW ratings: biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, small hydroelectric generation, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current.

2.6.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.6.3 Total Net Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.7 The maximum level of power that may be exported by the Generating Facility to PG&E's Distribution System is expected to be:

2.7.1 Eligible Generator(s):

Table with 2 columns and 7 rows listing eligible generating facility types and their kW ratings: biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, small hydroelectric generation, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current.

2.7.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.7.3 Total maximum level of power that may be exported by the Generating Facility: \_\_\_\_\_ kW



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

2.8 the purpose of securing the Competition Transition Charge exemption available under Section 372 of the California Public Utilities Code (PUC), Producer hereby declares that the portion of the Generating Facility that is generating in a combined heat and power mode
[ ] does / [ ] does not meet the requirements for Cogeneration as such term is used in Section 216.6 of the California Public Utilities Code.

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.

2.10 For the purpose of securing certain tariff charge exemptions available under the PU Code, Producer hereby declares the following for each Generator technology of the Generating Facility:

Requirements for Distributed Energy Resource Generation as such term is used in Section 353.1 of the PU Code.

Table with 4 columns: Technology, are met, are not met, and checkboxes. Rows include biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, small hydroelectric generation, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, biogas digester (under NEMBIO), and other technology.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

2.11 What applicable rate schedule, known as the otherwise applicable schedule will be selected for the net-energy-metering account(s):

### 3. DOCUMENTS INCLUDED; DEFINED TERMS

3.1 This Agreement includes the following exhibits which are specifically incorporated herein and made a part of this Agreement.

Appendix A - Description of Generating Facility and Single-Line Diagram (Supplied by Producer).

Appendix B - Web-site references to Rules 2 and 21 and other selected rules and tariffs of PG&E (Supplied by PG&E).

Appendix C - A Copy of *PG&E's Agreement for Installation or Allocation of Special Facilities for Parallel Operation of Nonutility-Owned Generation and/or Electrical Standby Service* (Form 79-280) (Special Facility Agreement), if applicable, (Formed by the Parties).

Appendix D - Producer's warranty that the Generating Facility meets the requirements for a Cogeneration facility pursuant to Section 216.6 of the PU Code (when applicable).

Appendix E - Producer's warranty that the Generating Facility meets the requirements for Distributed Energy Resources Generation as defined in Section 353.1 of the PU Code (when applicable).

Appendix F - Listing of eligible service accounts, as defined in PG&E's Schedule NEMBIO and/or NEMFC to be included in Net Energy Metering calculations (when applicable).

Appendix G - Producer's warranty that it meets the requirements for an Eligible Biogas Digester Electrical Generating Facility, (applicable Generator(s) only) as defined in Section 2827.9 of the PU Code (when applicable).

Appendix H - Schedule NEM Customer-Generator Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility Pursuant to Section 2827 of the California Public Utilities Code.

Appendix I -Operating Requirements for Energy Storage Device(s) (when applicable).

## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

- 3.2 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 PG&E's Rule 21 Section C.

### 4. TERM AND TERMINATION

- 4.1 This Agreement shall become effective as of the last date entered in Section 16, below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

- (a) The Parties agree in writing to terminate the Agreement, or
- (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service account through which Producer's Generating Facility is interconnected to PG&E's Distribution System is closed or terminated, or
- (c) At 12:01 A.M. on the 61<sup>st</sup> day after Producer or PG&E provides written Notice pursuant to Section 9 below to the other Party of Producer's or PG&E's intent to terminate this Agreement.

- 4.2 Producer may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for one or more of the following reasons:

- (a) A change in applicable rules, tariffs, and regulations, as approved or directed by the California Public Utilities Commission "Commission," or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
- (b) Unless otherwise agreed to in writing by the Parties, Producer fails to take all corrective actions specified in PG&E's Notice that Producer's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
- (c) Producer fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to 120 days after the date set forth in Section 2.9, above, as the Generating Facility's expected date of Initial Operation; or,
- (d) Producer abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its reasonable opinion, the Generating Facility is non-operational and



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

Producer does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Producer's apparent abandonment of the Generating Facility affirming Producer's intent and ability to continue to operate the Generating Facility.

- (e) Producer makes a change to the physical configuration of the Generating Facility, as declared in Section 2 and Appendix A of this Agreement.
- 4.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 4.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

### 5. GENERATING FACILITY AND OPERATING REQUIREMENTS

- 5.1 Except for that energy delivered to PG&E's Distribution System, electric energy produced by Producer's Generating Facility shall be used solely to serve electrical loads connected to the electric service account that PG&E uses to interconnect Producer's Generating Facility (or, where permitted under Section 218 of the PUC, the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits). Producer shall not use the Generating Facility to serve electrical loads that will cause Producer to be considered an "electrical corporation" as such term is used in Section 218 of the California Public Utilities Code.
- 5.2 Unless otherwise agreed upon in writing by the Parties, this Agreement does not provide for, nor otherwise require PG&E to purchase, transmit, distribute, or store the electrical energy produced by Producer's Generating Facility.
- 5.3 Producer is responsible for operating the Generating Facility in compliance with all of PG&E's tariffs, including but not limited to PG&E's Rule 21 and applicable NEM tariff schedules, and applicable safety and performance standards established by the National Electric Code, Institute of Electrical and Electronic Engineers, accredited testing laboratories such as Underwriters Laboratories, rules of the Commission regarding safety and reliability, and any other regulations and laws governing the Interconnection of the Generating Facility.
- 5.4 Producer shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 5.3, and (b) obtain



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Producer shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Producer's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Producer's Generating Facility.

- 5.5 Producer shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided per the timelines established by the applicable PUC 2827 section, or by Rule 21. Such approval will be provided after PG&E's receipt of: (1) a completed Generating Facility Interconnection Application for Non-Export or Certain Net Energy Metered Generating Facilities (Between 30 KW and 1,000 KW) (Form 79-974), including all supporting documents and payments as described in the Application; (2) any required NEM supplemental application forms; (3) a signed and completed Generating Facility Interconnection Agreement (Multiple Tariff) (Form 79-1069); (4) a copy of the Producer's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility; and (5) submission of all applicable payments for reviews, studies, Interconnection Facilities, and Distribution System Modifications. Such approval will not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Producer shall notify PG&E at least five (5) business days prior to the initial testing.
- 5.6 In no event shall the delivery of the maximum electric power to PG&E's Distribution System exceed the amount or other limitations specified in Section 2 and Appendix A of this Agreement. If Producer does not regulate its Generating Facility in compliance with the limitations set forth in this Agreement, PG&E may require Producer to disconnect its Generating Facility from PG&E's Distribution System until Producer demonstrates to PG&E's reasonable satisfaction that Producer has taken adequate measures to regulate the output of its Generating Facility and control its deliveries of electric power to PG&E. Further, should PG&E determine that Producer's operation of the Generating Facility is causing an unsafe condition or is adversely affecting PG&E's ability to utilize its Distribution System in any manner, even if Producer's deliveries of electric power to PG&E's Distribution System are within the limitations specified in this Agreement, PG&E may require Producer to temporarily or permanently reduce or cease deliveries of electric power to PG&E's Distribution System. Alternatively, the Parties may agree to other corrective measures so as to mitigate the effect of electric power flowing from the Generating Facility to PG&E's Distribution System. Producer's failure to comply with the terms of this Section shall constitute a material breach of this



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

Agreement and PG&E may initiate termination in accordance with the terms of Section 4.2(b).

- 5.7 Producer shall not deliver reactive power to PG&E's Distribution System unless the Parties have agreed otherwise in writing.
- 5.8 The Generating Facility shall be operated with all of Producer's Protective Functions in service whenever the Generating Facility is operated in parallel with PG&E's Distribution System. Any deviation from these requirements may occur only when the Parties have agreed to such deviations in writing.
- 5.9 If Producer declares that its Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PUC (or any successor definition of Cogeneration (Cogeneration Requirements)), Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet such Cogeneration Requirements, per Appendix D of this Agreement.
- 5.10 If Producer's Generating Facility includes any energy storage device(s), Distribution Provider may provide requirements that must be met by the Producer prior to initiating Parallel Operation with PG&E's Distribution System and throughout the term of this Agreement, including but not limited to the requirements set forth in Appendix I of this Agreement.

5.11 Smart Inverters

For Producer applications received on or after September 9, 2017, the Producer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Producer's inverter. Producer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Producer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Producer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at:

<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

Verification of compliance with such requirements shall be provided by the Producer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Producer has submitted the interconnection application prior to September 9, 2017,
- (c) the Producer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>1</sup> no later than March 31, 2018, or
- (d) the Producer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Producer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### 6. INTERCONNECTION FACILITIES

- 6.1 Producer and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Distribution System, personnel, and other persons from damage or injury, which may be caused by the operation of Producer's Generating Facility.

---

<sup>1</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments,
2. A completed signed Interconnection Agreement,
3. Evidence of the Producer final inspection clearance from the governmental authority having jurisdiction over the generating system.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

- 6.2 Producer shall be solely responsible for the costs, design, purchase, construction, operation, and maintenance of the Interconnection Facilities that Producer owns.
- 6.3 If the provisions of PG&E's Rule 21, or any other tariff or rule approved by the Commission, requires PG&E to own and operate a portion of the Interconnection Facilities, Producer and PG&E shall promptly execute a Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix C.
- 6.4 The Interconnection Facilities may include Net Generation Output Metering for determination of standby charges and applicable non-bypassable charges, and/or other meters required for PG&E's administration and billing pursuant to PG&E's tariffs for net energy metering.

### 7. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

### 8. INSURANCE

- 8.1 In connection with Producer's performance of its duties and obligations under this Agreement, Producer shall maintain, during the term of this 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



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

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 PG&E.

Such general liability 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."

- 8.2 The general liability insurance required in Section 8.1 shall, by endorsement to the policy or policies, (a) include PG&E as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that PG&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 PG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.3 If Producer's Generating Facility employs solely of Renewable Electrical Generation Facilities the requirements of Section 8.1 shall be waived. However, to the extent that Producer has currently in force Commercial General Liability or Personal (Homeowner's) Liability insurance, Producer agrees that it will maintain such insurance in force for the duration of this Agreement in no less than amounts currently in effect. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operations. Such insurance shall provide for thirty (30) calendar days written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.4 Evidence of the insurance required in Section 8.2 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- 8.5 Producer agrees to furnish the required certificates and endorsements to PG&E prior to Initial Operation. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.
- 8.6 If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 8.1 through 8.4:
- (a) Producer shall provide to, PG&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 8.1.
  - (b) If Producer ceases to self-insure to the level required hereunder, or if



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

Producer are unable to provide continuing evidence of Producer's ability to self-insure, Producer agrees to immediately obtain the coverage required under Section 8.1.

- 8.7 All insurance certificates, statements of self-insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGIContractMgmt@pge.com

## 9. NOTICES

- 9.1 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 address specified below:

If to PG&E: Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGIContractMgmt@pge.com

If to Producer:

[Contact information to be supplied]  
Customer-Generator Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Phone: (\_\_\_\_) \_\_\_\_\_  
FAX: (\_\_\_\_) \_\_\_\_\_

- 9.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 9.1.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

---

- 9.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

### 10. REVIEW OF RECORDS AND DATA

- 10.1 PG&E shall have the right to review and obtain copies of Producer'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 Producer's Generating Facility or its interconnection with PG&E's Distribution System.

10.2 Producer authorizes to release to the California Energy Commission (CEC) information regarding Producer's facility, including customer name, location, size, and operational characteristics of the unit, as requested from time to time pursuant to the CEC's rules and regulations.

10.210.3 As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Producer authorizes PG&E to release any and all information contained in its application, and addendum if applicable, for interconnection to the State Entities identified in this Section 10.3 without further notification or consent.

### 11. ASSIGNMENT

Producer shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Producer makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Producer's assignment of this Agreement.

### 12. NON-WAIVER

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

## **GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)**

---

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.

### **13. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E'S TARIFF SCHEDULES AND RULES**

13.1 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.

13.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.

13.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by, PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.

13.4 Notwithstanding any other provisions of this Agreement, PG&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.

### **14. AMENDMENT AND MODIFICATION**

This Agreement can only be amended or modified in writing, signed by both Parties.

### **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.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)**

---

**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.

**PACIFIC GAS AND ELECTRIC  
COMPANY**

_____ <i>(Company Name)</i>	_____
_____ <i>(Signature)</i>	_____ <i>(Signature)</i>
_____ <i>(Print Name)</i>	_____ <i>(Print Name)</i>
_____ <i>(Title)</i>	_____ <i>(Title)</i>
_____ <i>(Date)</i>	_____ <i>(Date)</i>



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix A**

---

**APPENDIX A**

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

(Note: The Description of the Generating Facility should include, but not limited to, for each of the technology types of generation: spatial configuration, net and gross nameplate ratings, manufacturer, if the generators are certified under Rule 21, protection equipment, and intended mode of operation [i.e. non-export: export up to 2 seconds; inadvertent export: export between 2 seconds and 60 seconds; and continuous export: export greater than 60 seconds]. Additionally points of interconnection with PG&E, as well as locations and type of protection equipment and disconnect switches should be identified.)



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix B**

---

**APPENDIX B**

**RULES “2” AND “21”**

(Note: PG&E’s electric Rules “2” and “21” may be subject to such changes or modifications by the Commission as the Commission may, from time to time, direct in the exercise of its jurisdiction. PG&E’s tariffs, including Rules “2” and “21” can be accessed via the PG&E website at [www.pge.com/tariffs](http://www.pge.com/tariffs). Upon request, PG&E can provide copies to Producer of Rules “2” and “21.”)



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix C**

---

**APPENDIX C (If Applicable)**

**RULE 21 “SPECIAL FACILITIES” AGREEMENT  
(Formed between the Parties)**

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix D**

---

**APPENDIX D (When applicable)**

**PRODUCER’S WARRANTY THAT THE GENERATING FACILITY IS A  
“COGENERATION FACILITY” PURSUANT TO SECTION 216.6 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PU Code (Cogeneration Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, the Generating Facility shall continue to meet the Cogeneration Requirements. If Producer becomes aware that its Generating Facility has ceased to meet the Cogeneration Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer’s Generating Facility may no longer meet the Cogeneration Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Cogeneration Requirements within 15 business days of PG&E’s request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer’s Generating Facility and/or require documentation from Producer to monitor the Generating Facility’s compliance with the Cogeneration Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Cogeneration Requirements, then the Cogeneration status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E’s reasonable satisfaction that the Generating Facility meets the requirements for a Cogeneration facility (the Cogeneration Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Cogeneration Status Change and provide Notice to Producer of the Cogeneration Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Cogeneration Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E shall invoice the Producer’s electric service account through which the Generating Facility is Interconnected with PG&E’s Distribution System for Competition Transition Charges (CTCs) that were not previously billed during the period between the effective date of the Status Change and the date of the Notice in reliance upon Producer’s representations that the Generating Facility complied with the Cogeneration Requirements and therefore was eligible for the exemption from CTCs available under Section 372 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer’s receipt of such invoice.

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix E**

---

**APPENDIX E (When applicable)**

**PRODUCER’S WARRANTY THAT THE GENERATING FACILITY IS A  
“DISTRIBUTED ENERGY RESOURCES GENERATION” FACILITY  
PURSUANT TO SECTION 353.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the tariff charge exemption available under Section 353.3 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Distributed Energy Resources Generation as such term is used in Section 353.1 of the PU Code (DERG Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the DERG Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the DERG Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer’s Generating Facility may no longer meet the DERG Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the DERG Requirements within 15 business days of PG&E’s request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer’s Generating Facility and/or require documentation from Producer to monitor the Generating Facility’s compliance with the DERG Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the DERG Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E’s reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the DERG Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the DERG Status Change and provide Notice to Producer of the DERG Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the DERG Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the DERG Requirements. PG&E shall invoice the Producer electric service account through which the Generating Facility is Interconnected with PG&E’s Distribution System for any tariff charges that were not previously billed during the period between the effective date of the DERG Status Change and the date of the Notice in reliance upon Producer’s representations that the Generating Facility complied with the DERG Requirements and therefore was eligible for the exemption from tariff charges available under Section 353.3 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer’s receipt of such invoice.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix G**

---

**APPENDIX G (When applicable)**

**PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS AN  
ELIGIBLE BIOGAS ELECTRICAL GENERATING FACILITY PURSUANT  
TO SECTION 2827.9 OF THE CALIFORNIA PUBLIC UTILITIES CODE**

Producer has declared that the Generating Facility meets the requirements for an Eligible Biogas Electrical Generating Facility, as defined in Section 2827.9 of the California Public Utilities Code (Eligibility Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the Eligibility Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the Eligibility Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer's Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Eligibility Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the Eligibility Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the Eligibility Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Producer of the Eligibility Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Producer for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM-BIO, Experimental Biogas Net Energy Metering.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix H**

**Appendix H**

**SCHEDULE NEM CUSTOMER-GENERATOR WARRANTY THAT IT  
MEETS THE REQUIREMENTS FOR AN ELIGIBLE CUSTOMER-  
GENERATOR AND IS AN ELIGIBLE RENEWABLE ELECTRICAL  
GENERATION FACILITY PURSUANT TO SECTION 2827 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

(This Affidavit needs to be completed and submitted to PG&E by the Customer-Generator every time a new NEM interconnection agreement for a Renewable Electrical Generation Facility is executed or whenever there is a change in ownership of the Generating Facility).

Circle Type of Renewable Electrical Generation Facility:

biomass	geothermal	municipal solid waste
solar thermal	fuel cell	landfill gas
small hydroelectric generation	ocean wave	digester gas
ocean thermal	tidal current	

NEM Customer-Generator (Customer) declares that

- (1) it meets the requirements to be an “Eligible Customer-Generator” and its Generating Facility.
- (2) (a) meets the requirements of an “Renewable Electrical Generation Facility”, as defined in Section 2827(b)(5) of the California Public Utilities Code and (b) satisfies the definitions of the renewable resource for the Renewable Electrical Generation Facility in the latest version of the California Energy Commission’s (CEC’s) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook. <sup>2</sup> (Eligibility Requirements).

<sup>2</sup> The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix H**

---

Included in these eligibility requirements (check as applicable) pursuant to Public Utilities Code section 2827(b)(5) and Public Resource Code Section 25741 paragraph 1(a):

- If the Renewable Electrical Generation Facility is a fuel cell, or otherwise uses renewable biogas or otherwise, Eligible Customer-Generator warrants that the fuel cell is powered solely with renewable fuel.
- If the Renewable Electrical Generation Facility is a Small hydroelectric generating facility, customer warrants that it will not cause an adverse impact on instream beneficial uses, nor cause a change in the volume or timing of streamflow).

If the Customer uses biogas or a renewable fuel as the fuel for their Renewable Electrical Generation Facility:

- Eligible Customer-Generator warrants that the Renewable Electrical Generation Facility is powered solely with renewable fuel.

Eligible Customer-Generator warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, Eligible Customer-Generator and the Generating Facility shall continue to meet the Eligibility Requirements. If Eligible Customer-Generator or the Generating Facility ceases to meet the Eligibility Requirements, Eligible Customer-Generator shall promptly provide PG&E with Notice of such change pursuant to Section 11 of this Agreement. If at any time during the term of this Agreement PG&E determines, at its reasonable discretion, that Eligible Customer-Generator or Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Eligible Customer-Generator to provide evidence, that Eligible Customer-Generator and/or Generating Facility continues to meet the Eligibility Requirements, within 20 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Eligible Customer-Generator to monitor the Generating Facility's compliance with the Eligibility Requirements – PG&E will provide a minimum of 10 business days notice to the Eligible Customer-Generator should PG&E decide an inspection is required. If PG&E determines in its reasonable judgment that Eligible Customer-Generator either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Eligibility Status shall be deemed ineffective until such time as Eligible Customer-Generator again demonstrates to PG&E's reasonable satisfaction that Eligible Customer-Generator meets the requirements for an Eligible Customer-Generator and/or the Generating Facility meets the requirements for a Eligible electrical generating facility (the Eligibility Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Eligible Customer-Generator of the Eligibility Status Change pursuant to Section 11 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Eligible Customer-Generator and/or Generating Facility first ceased to meet the



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF)  
Appendix H**

---

Eligibility Requirements. PG&E shall invoice the Eligible Customer-Generator for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Eligible Customer-Generator’s representations that Eligible Customer-Generator and/or Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E’s Schedule NEM Net Energy Metering Service for Eligible Customer-Generators.

Any amounts to be paid or refunded by Eligible Customer-Generator, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Eligible Customer-Generator’s receipt of such invoice.

Unless otherwise ordered by the CPUC, this Agreement at all times shall be subject to such modifications as the CPUC may direct from time to time in the exercise of its jurisdiction.

I certify the above is true and correct,

Customer-Generator Signature: \_\_\_\_\_

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

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

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



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

## Appendix I

### APPENDIX I (If Applicable)

#### OPERATING REQUIREMENTS FOR ENERGY STORAGE DEVICE(S)

The following Operating Requirement(s) apply to the charging functions of the Generating Facility:

- Producer's storage device(s) will not consume power from Distribution Provider's Distribution System at any time.
- Producer's storage device(s) will not cause the Host Load to exceed its normal peak demand. Normal peak demand is defined as the highest amount of power required from the Distribution System by Producer's complete facilities without the influence or use of the energy storage device(s).
- To avoid upgrades or other technical mitigation items identified in the interconnection process, Producer has chosen the following Generating Facility operating constraint(s):

For the annual period between \_\_\_\_\_ [Month/Day] and \_\_\_\_\_ [Month/Day]  
 And during the hours of \_\_\_\_\_  
 The storage device(s) will consume no more than a total of \_\_\_\_ kW from the Distribution System.  
 This operating constraint voids the need for the following specific mitigation scope:


No other charging function limitation is required for this Generating Facility except the requirements above. Producer will be responsible for the costs of the corresponding upgrades or other technical mitigations if at any time the Producer elects to forego or violates the operating requirement.

Consistent with current load service Rules, Distribution Provider is not required to reserve capacity for load. Producer is responsible to contact the utility for any modification to its equipment or change in operations that may result in increased load demand per Electric Rule 3.C.

If any operating requirement is specified above, Distribution Provider reserves the right to ask for data at the 15-minute interval level at any time to verify that the operating requirement is being met. Distribution Provider will make such request via a written notice no more than once per calendar quarter. Producer must provide such data within 30 Calendar Days of the written request.

If the Generating Facility fails to adhere to the operating requirements at any time, it will be disconnected immediately in accordance with Rule 21 Section D.9 and not reconnected until an approved mitigation (e.g., supervising controls) is in place as determined by Distribution Provider.



**Electric Sample Form No. 79-1069-02**  
Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT)

Sheet 1

**Please Refer to Attached  
Sample Form**

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT )

---

This *Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT)* (Agreement) is entered into by and between \_\_\_\_\_ (Producer), and Pacific Gas and Electric Company (PG&E) a California Corporation. Producer and PG&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 Producer to interconnect and operate a Generating Facility in parallel with PG&E’s Electric System to serve the electrical loads at the location identified in Section 2.4 (or for the qualifying energy where permitted under Section 218 of the California Public Utilities Code (PUC). The Generating Facility must be a combination of generators, but must include at least one NEM2 “Eligible customer-generator.” (as defined in PG&E’s Schedule NEM2). “Eligible customer-generator” may also include other eligible customer-generators such as NEM2 Renewable Electrical Generation Facility(ies), Renewable Electrical Generation Facility(ies) (as defined in PG&E’s Schedule NEM) or Eligible Fuel Cell Electrical Generating Facility(ies) (as defined in PG&E’s Schedule NEMFC), as allowed under Special Condition 4 of Schedule NEM2.

- 1.1. This Agreement provides for Producer to operate the Eligible Generator(s) pursuant to the provisions of Section 2827.1 et seq. of the PU Code and the applicable PG&E tariffs for net energy metering. This Agreement also provides for Producer to operate its Non-Eligible Generator(s). This Agreement does not provide for retail electrical service by PG&E to Producer. Such arrangements must be made separately between PG&E and Producer.
- 1.2. This Agreement does not address Producer’s account billing and payment for energy consumption. For the Generating Facility as specified in Section 2 of this Agreement, please refer to the applicable PG&E net-energy-metered (NEM and/or NEM2) tariff schedules for billing and payment protocol.

## 2. SUMMARY AND DESCRIPTION OF PRODUCER’S GENERATING FACILITY

- 2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Producer’s Generating Facility and loads are interconnected with PG&E’s Electric System, are attached to and made a part of this Agreement. (Supplied by Producer as Appendix A).



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Producer's electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service account used to interconnect the Generating Facility with PG&E's Electric System:

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

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

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

2.5 The Gross Nameplate Rating of the Generating Facility is:

2.5.1 Eligible Generator(s):

Table with 2 columns and 7 rows listing generator types and their kW ratings, including biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, and small hydroelectric generation.

2.5.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.5.3 Total Gross Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.6 The Net Nameplate Rating of the Generating Facility is:



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

## 2.6.1 Eligible Renewable Electrical Generation Facility Generator(s):

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	Storage/Batteries (NEM eligible only) _____ amp hours _____ inverter kW

2.6.2 Non-Eligible Generator(s): \_\_\_\_\_ kW

2.6.3 **Total Net** Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

2.7 The maximum level of power that may be exported by the Generating Facility to PG&E's Electric System is expected to be:

2.7.1 Eligible Generator(s):

biomass _____ kW	digester gas _____ kW
solar thermal _____ kW	municipal solid waste _____ kW
photovoltaic _____ kW	landfill gas _____ kW
wind _____ kW	ocean wave _____ kW
geothermal _____ kW	ocean thermal _____ kW
fuel cell _____ kW	tidal current _____ kW
small hydroelectric generation _____ kW	Storage/Batteries (NEM eligible only) _____ amp hours _____ inverter kW

2.7.2 Non-Eligible Generator(s): \_\_\_\_\_ kW



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

2.7.3 Total maximum level of power that may be exported by the Generating Facility: \_\_\_\_\_ kW

2.8 the purpose of securing the Competition Transition Charge exemption available under Section 372 of the California Public Utilities Code (PUC), Producer hereby declares that the portion of the Generating Facility that is generating in a combined heat and power mode
[ ] does / [ ] does not meet the requirements for Cogeneration as such term is used in Section 216.6 of the California Public Utilities Code.

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.

2.10 For the purpose of securing certain tariff charge exemptions available under the PU Code, Producer hereby declares the following for each Generator technology of the Generating Facility:

Requirements for Distributed Energy Resource Generation as such term is used in Section 353.1 of the PU Code.

Table with 4 columns: Technology, are met, are not met, and checkboxes. Rows include biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, small hydroelectric generation, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, biogas digester (under NEMBIO), and fuel cell (under NEMFC) other technology.

2.11 Customer-Generator's otherwise-applicable-rate schedule as of the execution of this Agreement is: \_\_\_\_\_

## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

### 3. DOCUMENTS INCLUDED; DEFINED TERMS

3.1 This Agreement includes the following exhibits which are specifically incorporated herein and made a part of this Agreement.

Appendix A - Description of Generating Facility and Single-Line Diagram (Supplied by Producer).

Appendix B - Web-site references to Rules 2 and 21 and other selected rules and tariffs of PG&E (Supplied by PG&E).

Appendix C - A Copy of *PG&E's Agreement for Installation or Allocation of Special Facilities for Parallel Operation of Nonutility-Owned Generation and/or Electrical Standby Service (Form 79-280)* (Special Facility Agreement), if applicable, (Formed by the Parties).

Appendix D - Producer's warranty that the Generating Facility meets the requirements for a Cogeneration facility pursuant to Section 216.6 of the PU Code (when applicable).

Appendix E - Producer's warranty that the Generating Facility meets the requirements for Distributed Energy Resources Generation as defined in Section 353.1 of the PU Code (when applicable).

Appendix F - NEM2 Load Aggregation Customer-Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel

Appendix G - Producer's warranty that it meets the requirements for an Eligible Biogas Digester Electrical Generating Facility, (applicable Generator(s) only) as defined in Section 2827.9 of the PU Code (when applicable).

Appendix H - Schedule NEM and/or NEM2 Customer-Generator Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility Pursuant to Section 2827.1 of the California Public Utilities Code.

Appendix I -Operating Requirements for Energy Storage Device(s) (when applicable).

Appendix J - NEMFC Customer Agreement Starting January 1, 2017 Until California Air Resources Board Emission Standard is Established.

3.2 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 PG&E's Rule 21 Section C.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

### 4. TERM AND TERMINATION

- 4.1 This Agreement shall become effective as of the last date entered in Section 16, below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:
- (a) The Parties agree in writing to terminate the Agreement, or
  - (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service account through which Producer's Generating Facility is interconnected to PG&E's Electric System is closed or terminated, or
  - (c) At 12:01 A.M. on the 61<sup>st</sup> day after Producer or PG&E provides written Notice pursuant to Section 9 below to the other Party of Producer's or PG&E's intent to terminate this Agreement.
- 4.2 Producer may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for one or more of the following reasons:
- (a) A change in applicable rules, tariffs, and regulations, as approved or directed by the California Public Utilities Commission "Commission," or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
  - (b) Unless otherwise agreed to in writing by the Parties, Producer fails to take all corrective actions specified in PG&E's Notice that Producer's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Producer fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to 120 days after the date set forth in Section 2.9, above, as the Generating Facility's expected date of Initial Operation; or,
  - (d) Producer abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its reasonable opinion, the Generating Facility is non-operational and Producer does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Producer's apparent abandonment of the Generating Facility affirming Producer's intent and ability to continue to operate the Generating Facility.
  - (e) Producer makes a change to the physical configuration of the Generating Facility, as declared in Section 2 and Appendix A of this Agreement.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

- 4.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 4.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

### 5. GENERATING FACILITY AND OPERATING REQUIREMENTS

- 5.1 Except for that energy delivered to PG&E's Electric System, electric energy produced by Producer's Generating Facility shall be used solely to serve electrical loads connected to the electric service account that PG&E uses to interconnect Producer's Generating Facility (or, where permitted under Section 218 of the PUC, the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits). Producer shall not use the Generating Facility to serve electrical loads that will cause Producer to be considered an "electrical corporation" as such term is used in Section 218 of the California Public Utilities Code.
- 5.2 Unless otherwise agreed upon in writing by the Parties, this Agreement does not provide for, nor otherwise require PG&E to purchase, transmit, distribute, or store the electrical energy produced by Producer's Generating Facility.
- 5.3 Producer is responsible for operating the Generating Facility in compliance with all of PG&E's tariffs, including but not limited to PG&E's Rule 21 and applicable NEM-2 tariff schedules, and applicable safety and performance standards established by the National Electric Code, Institute of Electrical and Electronic Engineers, accredited testing laboratories such as Underwriters Laboratories, rules of the Commission regarding safety and reliability, and any other regulations and laws governing the Interconnection of the Generating Facility.
- 5.4 Producer shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 5.3, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Producer shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Producer's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Producer's Generating Facility.
- 5.5 Producer shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided per the timelines established by the applicable PUC 2827 section, or by Rule 21. Such approval will be provided after PG&E's receipt of: (1) a completed Generating Facility Interconnection Application (Form 79-1174-02),



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

including all supporting documents and payments as described in the Application; (2) any required NEM supplemental application forms; (3) a signed and completed Generating Facility Interconnection Agreement (Multiple Tariff NEM2MT) (Form 79-1069-02); (4) a copy of the Producer's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility; and (5) submission of all applicable payments for reviews, studies, Interconnection Facilities, and Electric System Modifications. Such approval will not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Producer shall notify PG&E at least five (5) business days prior to the initial testing.

- 5.6 In no event shall the delivery of the maximum electric power to PG&E's Electric System exceed the amount or other limitations specified in Section 2 and Appendix A of this Agreement. If Producer does not regulate its Generating Facility in compliance with the limitations set forth in this Agreement, PG&E may require Producer to disconnect its Generating Facility from PG&E's Electric System until Producer demonstrates to PG&E's reasonable satisfaction that Producer has taken adequate measures to regulate the output of its Generating Facility and control its deliveries of electric power to PG&E. Further, should PG&E determine that Producer's operation of the Generating Facility is causing an unsafe condition or is adversely affecting PG&E's ability to utilize its Electric System in any manner, even if Producer's deliveries of electric power to PG&E's Electric System are within the limitations specified in this Agreement, PG&E may require Producer to temporarily or permanently reduce or cease deliveries of electric power to PG&E's Electric System. Alternatively, the Parties may agree to other corrective measures so as to mitigate the effect of electric power flowing from the Generating Facility to PG&E's Electric System. Producer's failure to comply with the terms of this Section shall constitute a material breach of this Agreement and PG&E may initiate termination in accordance with the terms of Section 4.2(b).
- 5.7 Producer shall not deliver reactive power to PG&E's Electric System unless the Parties have agreed otherwise in writing.
- 5.8 The Generating Facility shall be operated with all of Producer's Protective Functions in service whenever the Generating Facility is operated in parallel with PG&E's Electric System. Any deviation from these requirements may occur only when the Parties have agreed to such deviations in writing.
- 5.9 If Producer declares that its Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PUC (or any successor definition of Cogeneration (Cogeneration Requirements)), Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet such Cogeneration Requirements, per Appendix D of this Agreement.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

- 5.10 In order to promote the safety and reliability of the customer Generating Facility, the applicant certifies that as a part of each interconnection request for a NEM and/or NEM2 Generating Facility, that all major solar system components (if any) are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.
- 5.11 Producer certifies as a part of each interconnection request for a NEM and/or NEM2 Eligible Generating Facility that
- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
  - (ii) a 10-year service warranty or executed “agreement” has been provided ensuring proper maintenance and continued system performance.
- 5.12 Producers on this tariff must pay for the interconnection of their NEM2 Generation Facilities as provided in Electric Rule 21, pursuant to Decision 16-01-044.
- 5.13 If Producer’s Generating Facility includes any energy storage device(s), Distribution Provider may provide requirements that must be met by the Producer prior to initiating Parallel Operation with PG&E’s Distribution System and throughout the term of this Agreement, including but not limited to the requirements set forth in Appendix I of this Agreement.
- 5.14 Smart Inverters
- For Producer applications received on or after September 9, 2017, the Producer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.
- Distribution Provider may require a field verification of the Producer’s inverter. Producer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Producer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Producer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.
- (Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at:
- <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)
- Verification of compliance with such requirements shall be provided by the Producer upon request by PG&E in accordance with PG&E’s Electric Rule 21.

## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

An “existing inverter” is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Producer has submitted the interconnection application prior to September 9, 2017,
- (c) the Producer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>1</sup> no later than March 31, 2018, or
- (d) the Producer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All “existing inverters” are not required to be Smart Inverters and are only subject to Section H of Rule 21. Producer replacing an “existing inverter” certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### 6. INTERCONNECTION FACILITIES

- 6.1 Producer and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E’s Electric System, personnel, and other persons from damage or injury, which may be caused by the operation of Producer’s Generating Facility.
- 6.2 Producer shall be solely responsible for the costs, design, purchase, construction, operation, and maintenance of the Interconnection Facilities that Producer owns.
- 6.3 If the provisions of PG&E’s Rule 21, or any other tariff or rule approved by the Commission, requires PG&E to own and operate a portion of the Interconnection Facilities, Producer and PG&E shall promptly execute an Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the

---

<sup>1</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments,
- 2. A completed signed Interconnection Agreement,
- 3. Evidence of the Producer final inspection clearance from the governmental authority having jurisdiction over the generating system.



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix C.

- 6.4 The Interconnection Facilities may include Net Generation Output Metering for determination of standby charges and applicable non-bypassable charges, and/or other meters required for PG&E's administration and billing pursuant to PG&E's tariffs for net energy metering.

### 7. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

### 8. INSURANCE

- 8.1 In connection with Producer's performance of its duties and obligations under this Agreement, Producer shall maintain, during the term of this 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 PG&E.

Such general liability 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."

- 8.2 The general liability insurance required in Section 8.1 shall, by endorsement to the policy or policies, (a) include PG&E as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that PG&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



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

---

- for thirty (30) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.3 If Producer's Generating Facility employs solely of Renewable Electrical Generation Facilities the requirements of Section 8.1 shall be waived. However, to the extent that Producer has currently in force Commercial General Liability or Personal (Homeowner's) Liability insurance, Producer agrees that it will maintain such insurance in force for the duration of this Agreement in no less than amounts currently in effect. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operations. Such insurance shall provide for thirty (30) calendar days written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.
- 8.4 Evidence of the insurance required in Section 8.2 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- 8.5 Producer agrees to furnish the required certificates and endorsements to PG&E prior to Initial Operation. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.
- 8.6 If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 8.1 through 8.4:
- (a) Producer shall provide to, PG&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 8.1.
  - (b) If Producer ceases to self-insure to the level required hereunder, or if Producer are unable to provide continuing evidence of Producer's ability to self-insure, Producer agrees to immediately obtain the coverage required under Section 8.1.
- 8.7 All insurance certificates, statements of self-insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: [EGIcontractMgmt@pge.com](mailto:EGIcontractMgmt@pge.com)



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

## 9. NOTICES

9.1 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 address specified below:

If to PG&E: Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGContractMgmt@pge.com

If to Producer:

Customer-Generator Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Phone: (\_\_\_\_) \_\_\_\_\_  
FAX: (\_\_\_\_) \_\_\_\_\_

9.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 9.1.

9.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

## 10. REVIEW OF RECORDS AND DATA

10.1 PG&E shall have the right to review and obtain copies of Producer'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 Producer's Generating Facility or its interconnection with PG&E's Electric System.

10.2 Producer authorizes to release to the California Energy Commission (CEC) information regarding Producer's facility, including customer name, location, size, and operational characteristics of the unit, as requested from time to time pursuant to the CEC's rules and regulations.

10.210.3 As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Producer authorizes PG&E to release any and all information contained in its application, and addendum if applicable, for interconnection to the State Entities identified in this Section 10.3 without further notification or consent.

## 11. ASSIGNMENT

Producer shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Producer makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Producer's assignment of this Agreement.

## 12. NON-WAIVER

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.

## 13. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E'S TARIFF SCHEDULES AND RULES

13.1 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.

13.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.

13.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by, PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.

13.4 Notwithstanding any other provisions of this Agreement, PG&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.

## 14. AMENDMENT AND MODIFICATION



# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

This Agreement can only be amended or modified in writing, signed by both Parties.

## 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.

_____	<b>PACIFIC GAS AND ELECTRIC COMPANY</b>
<i>(Company Name)</i>	_____
_____	_____
<i>(Signature)</i>	<i>(Signature)</i>
_____	_____
<i>(Print Name)</i>	<i>(Print Name)</i>
_____	_____
<i>(Title)</i>	<i>(Title)</i>
_____	_____
<i>(Date)</i>	<i>(Date)</i>



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)**

**Appendix A**

---

**APPENDIX A**

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

(Note: The Description of the Generating Facility should include, but not limited to, for each of the technology types of generation: spatial configuration, net and gross nameplate ratings, manufacturer, if the generators are certified under Rule 21, protection equipment, and intended mode of operation [i.e. non-export: export up to 2 seconds; inadvertent export: export between 2 seconds and 60 seconds; and continuous export: export greater than 60 seconds]. Additionally points of interconnection with PG&E, as well as locations and type of protection equipment and disconnect switches should be identified.)

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix B**

---

**APPENDIX B**

**RULES “2” AND “21”**

(Note: PG&E’s electric Rules “2” and “21” may be subject to such changes or modifications by the Commission as the Commission may, from time to time, direct in the exercise of its jurisdiction. PG&E’s tariffs, including Rules “2” and “21” can be accessed via the PG&E website at [www.pge.com/tariffs](http://www.pge.com/tariffs). Upon request, PG&E can provide copies to Producer of Rules “2” and “21.”)



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix C**

---

**APPENDIX C (If Applicable)**

**RULE 21 “SPECIAL FACILITIES” AGREEMENT  
(Formed between the Parties)**

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix D**

---

**APPENDIX D (When applicable)**

**PRODUCER’S WARRANTY THAT THE GENERATING FACILITY IS A  
“COGENERATION FACILITY” PURSUANT TO SECTION 216.6 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PU Code (Cogeneration Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, the Generating Facility shall continue to meet the Cogeneration Requirements. If Producer becomes aware that its Generating Facility has ceased to meet the Cogeneration Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer’s Generating Facility may no longer meet the Cogeneration Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Cogeneration Requirements within 15 business days of PG&E’s request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer’s Generating Facility and/or require documentation from Producer to monitor the Generating Facility’s compliance with the Cogeneration Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Cogeneration Requirements, then the Cogeneration status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E’s reasonable satisfaction that the Generating Facility meets the requirements for a Cogeneration facility (the Cogeneration Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Cogeneration Status Change and provide Notice to Producer of the Cogeneration Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Cogeneration Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E shall invoice the Producer’s electric service account through which the Generating Facility is Interconnected with PG&E’s Electric System for Competition Transition Charges (CTCs) that were not previously billed during the period between the effective date of the Status Change and the date of the Notice in reliance upon Producer’s representations that the Generating Facility complied with the Cogeneration Requirements and therefore was eligible for the exemption from CTCs available under Section 372 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer’s receipt of such invoice.

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix E**

---

**APPENDIX E (When applicable)**

**PRODUCER’S WARRANTY THAT THE GENERATING FACILITY IS A  
“DISTRIBUTED ENERGY RESOURCES GENERATION” FACILITY  
PURSUANT TO SECTION 353.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

For the purpose of securing the tariff charge exemption available under Section 353.3 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for Distributed Energy Resources Generation as such term is used in Section 353.1 of the PU Code (DERG Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the DERG Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the DERG Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer’s Generating Facility may no longer meet the DERG Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the DERG Requirements within 15 business days of PG&E’s request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer’s Generating Facility and/or require documentation from Producer to monitor the Generating Facility’s compliance with the DERG Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the DERG Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E’s reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the DERG Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the DERG Status Change and provide Notice to Producer of the DERG Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the DERG Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the DERG Requirements. PG&E shall invoice the Producer electric service account through which the Generating Facility is Interconnected with PG&E’s Electric System for any tariff charges that were not previously billed during the period between the effective date of the DERG Status Change and the date of the Notice in reliance upon Producer’s representations that the Generating Facility complied with the DERG Requirements and therefore was eligible for the exemption from tariff charges available under Section 353.3 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer’s receipt of such invoice.

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NEM2MT)

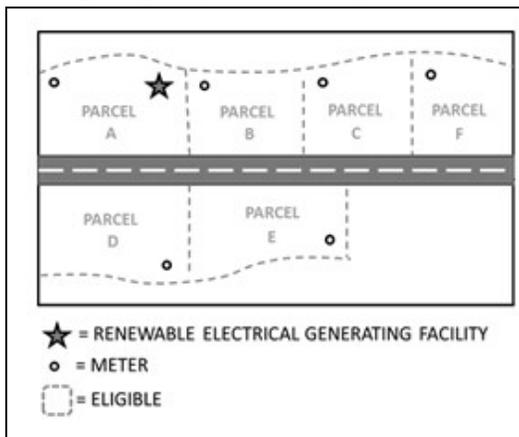
## Appendix F

### APPENDIX F (When applicable)

#### NEM2 LOAD AGGREGATION APPENDIX (If Applicable) CUSTOMER-GENERATOR DECLARATION WARRANTING NEM2 AGGREGATION IS LOCATED ON SAME OR ADJACENT OR CONTIGUOUS PROPERTY TO GENERATOR PARCEL

In accordance with Schedule NEM2, I, Customer-Generator represent and warrant under penalty of perjury that:

- 1) The total annual output in kWh of the generator is less than or equal to 110% (for solar and/or wind systems equal to or less than 30 kW) or 100% (for all other technologies and solar and/or wind systems greater than 30 kW) of the annual aggregated electrical load in kWh of the meters associated with the generator account, including the load on the generating account itself (before being offset by the generator); and
- 2) Each of the aggregated account meters associated with this NEM2 generator account are located either:
  - (i) on the property where the renewable electrical generation facility is located, or
  - (ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator.



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

- 3) PG&E reserves the right to request a parcel map to confirm the property meets the requirements of 2) above; and
- 4) Customer-Generator agrees to notify PG&E if there is any change of status that makes any of the participating meters ineligible for meter aggregation to ensure that only eligible meters are participating; PG&E will require an updated Appendix and Declaration form; and
- 5) Upon request by PG&E, I agree to provide documentation that all aggregated meters meet the requirements of Rate Schedule NEM2 Special Condition 6 including but not limited to parcel maps and ownership records.

\_\_\_\_\_  
*Customer Generator's Name*

\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Type/Print Name*

\_\_\_\_\_  
*Title*

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix G**

---

**APPENDIX G (When applicable)**

**PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS AN  
ELIGIBLE BIOGAS ELECTRICAL GENERATING FACILITY PURSUANT  
TO SECTION 2827.9 OF THE CALIFORNIA PUBLIC UTILITIES CODE**

Producer has declared that the Generating Facility meets the requirements for an Eligible Biogas Electrical Generating Facility, as defined in Section 2827.9 of the California Public Utilities Code (Eligibility Requirements).

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the Eligibility Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the Eligibility Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its reasonable discretion that Producer's Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Eligibility Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the Eligibility Requirements. If PG&E determines in its reasonable judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the Eligibility Status Change).

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Producer of the Eligibility Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Producer for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM-BIO, Experimental Biogas Net Energy Metering.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix H**

**Appendix H**

**SCHEDULE NEM2 CUSTOMER-GENERATOR WARRANTY THAT IT  
MEETS THE REQUIREMENTS FOR AN ELIGIBLE CUSTOMER-  
GENERATOR AND IS AN ELIGIBLE RENEWABLE ELECTRICAL  
GENERATION FACILITY PURSUANT TO SECTION 2827.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

(This Affidavit needs to be completed and submitted to PG&E by the Customer-Generator every time a new NEM2 interconnection agreement for a Renewable Electrical Generation Facility is executed or whenever there is a change in ownership of the Generating Facility).

Check Type of Renewable Electrical Generation Facility:

<input type="checkbox"/> biomass	<input type="checkbox"/> geothermal	<input type="checkbox"/> municipal solid waste
<input type="checkbox"/> solar thermal	<input type="checkbox"/> fuel cell	<input type="checkbox"/> landfill gas
<input type="checkbox"/> small hydroelectric generation	<input type="checkbox"/> ocean wave	<input type="checkbox"/> digester gas
<input type="checkbox"/> ocean thermal	<input type="checkbox"/> tidal current	<input type="checkbox"/> Storage/Batteries _____ amp hours _____ inverter kWh

NEM2 Customer-Generator (Customer) declares that

- (1) it meets the requirements to be an “Eligible Customer-Generator” and its Generating Facility.
- (2) (a) meets the requirements of an “Renewable Electrical Generation Facility”, as defined in Section 2827(b)(5) of the California Public Utilities Code and (b) satisfies the definitions of the renewable resource for the Renewable Electrical Generation Facility in the latest version of the California Energy Commission’s (CEC’s) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook. <sup>2</sup> (Eligibility Requirements).

<sup>2</sup> The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix H**

---

Included in these eligibility requirements (check as applicable) pursuant to Public Utilities Code section 2827(b)(5) and Public Resource Code Section 25741 paragraph 1(a):

- If the Renewable Electrical Generation Facility is a fuel cell, or otherwise uses renewable biogas or otherwise, Eligible Customer-Generator warrants that the fuel cell is powered solely with renewable fuel.
- If the Renewable Electrical Generation Facility is a Small hydroelectric generating facility, customer warrants that it will not cause an adverse impact on instream beneficial uses, nor cause a change in the volume or timing of streamflow).

If the Customer uses biogas or a renewable fuel as the fuel for their Renewable Electrical Generation Facility:

- Eligible Customer-Generator warrants that the Renewable Electrical Generation Facility is powered solely with renewable fuel.

Eligible Customer-Generator warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, Eligible Customer-Generator and the Generating Facility shall continue to meet the Eligibility Requirements. If Eligible Customer-Generator or the Generating Facility ceases to meet the Eligibility Requirements, Eligible Customer-Generator shall promptly provide PG&E with Notice of such change pursuant to Section 11 of this Agreement. If at any time during the term of this Agreement PG&E determines, at its reasonable discretion, that Eligible Customer-Generator or Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Eligible Customer-Generator to provide evidence, that Eligible Customer-Generator and/or Generating Facility continues to meet the Eligibility Requirements, within 20 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Eligible Customer-Generator to monitor the Generating Facility's compliance with the Eligibility Requirements – PG&E will provide a minimum of 10 business days notice to the Eligible Customer-Generator should PG&E decide an inspection is required. If PG&E determines in its reasonable judgment that Eligible Customer-Generator either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Eligibility Status shall be deemed ineffective until such time as Eligible Customer-Generator again demonstrates to PG&E's reasonable satisfaction that Eligible Customer-Generator meets the requirements for an Eligible Customer-Generator and/or the Generating Facility meets the requirements for a Eligible electrical generating facility (the Eligibility Status Change).



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix H**

---

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Eligible Customer-Generator of the Eligibility Status Change pursuant to Section 11 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Eligible Customer-Generator and/or Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Eligible Customer-Generator for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Eligible Customer-Generator's representations that Eligible Customer-Generator and/or Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM2 Net Energy Metering Service for Eligible Customer-Generators.

Any amounts to be paid or refunded by Eligible Customer-Generator, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Eligible Customer-Generator's receipt of such invoice.

Unless otherwise ordered by the CPUC, this Agreement at all times shall be subject to such modifications as the CPUC may direct from time to time in the exercise of its jurisdiction.

I certify the above is true and correct,

Customer-Generator Signature: \_\_\_\_\_

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

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

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

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix I**

---

**APPENDIX I  
(If Applicable)**

**OPERATING REQUIREMENTS FOR ENERGY STORAGE  
DEVICE(S)**

The following Operating Requirement(s) apply to the charging functions of the Generating Facility:

- Producer's storage device(s) will not consume power from Distribution Provider's Distribution System at any time.
- Producer's storage device(s) will not cause the Host Load to exceed its normal peak demand. Normal peak demand is defined as the highest amount of power required from the Distribution System by Producer's complete facilities without the influence or use of the energy storage device(s).
- To avoid upgrades or other technical mitigation items identified in the interconnection process, Producer has chosen the following Generating Facility operating constraint(s):

For the annual period between \_\_\_\_\_ [Month/Day] and \_\_\_\_\_ [Month/Day]

And during the hours of \_\_\_\_\_

The storage device(s) will consume no more than a total of \_\_\_\_ kW from the Distribution System.

This operating constraint voids the need for the following specific mitigation scope:


No other charging function limitation is required for this Generating Facility except the requirements above. Producer will be responsible for the costs of the corresponding upgrades or other technical mitigations if at any time the Producer elects to forego or violates the operating requirement.

Consistent with current load service Rules, Distribution Provider is not required to reserve capacity for load. Producer is responsible to contact the utility for any modification to its equipment or change in operations that may result in increased load demand per Electric Rule 3.C.

If any operating requirement is specified above, Distribution Provider reserves the right to ask for data at the 15-minute interval level at any time to verify that the operating requirement is being met. Distribution Provider will make such request via a written notice no more than once per calendar quarter. Producer must provide such data within 30



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix I**

---

Calendar Days of the written request.

If the Generating Facility fails to adhere to the operating requirements at any time, it will be disconnected immediately in accordance with Rule 21 Section D.9 and not reconnected until an approved mitigation (e.g., supervising controls) is in place as determined by Distribution Provider.



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF NEM2MT)  
Appendix J**

---

**NEMFC Customer Agreement Starting January 1, 2017 Until California Air Resources Board Emission Standard is Established and Approved by the CPUC as Needed.**

Starting January 1, 2017, Customer applying for Schedule NEMFC, as revised pursuant to Assembly Bill 1637 (2016), agree as follows:

That their Eligible Fuel Cell Electrical Generating Facility must meet the reduction in greenhouse gas emissions standard to be established as required by the California Public Utilities (PU) Code Section 2827.10.

Since the applicable standards are not yet released by the California Air Resources Board (ARB) and/or approved as may be needed by the California Public Utilities Commission (CPUC), Customer agrees and understands that their approval for participation in NEMFC is contingent on their system meeting the new standard within three months of when the new standard becomes available. Specifically, I, Customer, understand and agree that if my fuel cell generator does not meet the ARB emission standard I will not be eligible for NEMFC.

Specifically, I will be responsible for the following:

1. Payment of all interconnection costs, including fees, studies, system upgrades, and any other pertinent interconnection costs.
2. Payment of the following nonbypassable charges on all departed load served by the fuel cell installed at my premises including but not limited to,
  - a. Public Purpose Program Charges;
  - b. Nuclear Decommissioning;
  - c. Department of Water Resources Bond Charges; and
  - d. Competition Transition Charge;
  - e. Other charges that the CPUC determines are to be charged on departed load and for which there is no exception for fuel cells pursuant to Schedule E-DCG.
3. I understand that I may be required to take service on standby tariff pursuant to Schedule S or Schedule SB and pursuant to PU Code Section 2827.10(f)(2)(A).
4. I further understand that I will not be eligible for Rate Schedule NEMFC and will no longer receive any credit for any exports to the grid.

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Date)



**ELECTRIC SAMPLE FORM 79-1151A** Sheet 1  
**AGREEMENT AND CUSTOMER AUTHORIZATION**  
Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30  
Kilowatts Or Less

**Please Refer to Attached  
Sample Form**



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF and participants in the Demand Response Programs below are not eligible to participate in NEM.
  - Peak Day Pricing (PDP)
  - Scheduled Load Reduction Program (SLRP)
  - SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

Standard NEM Agreement Type:     Single Account     Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation (NEMA) is a program that allows customers with multiple meters to use the renewable energy generated at one meter (up to 1MW) to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.

Customer Sector (check only one):

<input type="checkbox"/> Residential	<input type="checkbox"/> Educational
<input type="checkbox"/> Commercial	<input type="checkbox"/> Military
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other Government
<input type="checkbox"/> Non-Profit	

Account Holder Name* (Individual or Company)	Electric Service Agreement ID *	Meter Number*
Service Address*	City*	State    Zip*
Customer Phone Number	Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)	

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

- Meter in building or behind locked gate   
  Unrestrained animal at meter or AC Disconnect Switch   
  Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist)	Contact Phone
---------------------------------------------------------	---------------

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer’s behalf):

Company Name	Contact Person
Contact Phone Number	Email

**By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit Application Form 79-1151B and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.**

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E’s Privacy Policy.  
 The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).  
 Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### Part II – NEM Generator System Size

#### A. Interconnection Study and Requirements

This Agreement covers the installed Generating Facility nameplate listed in the accompanying Application Form 79-1151B.

The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) Application Form 79-1151B, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. For customers on a Time-of-Use rate, sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill. For customer who are not on a Time-of-Use rate, you might want to size your system larger (90-95% of your annual load), in order to minimize your electricity bill. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data](#)." System sizing eligibility will be reviewed using the criteria below.

#### B. Generator System Sizing

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:  Solar     Wind     Both

#### Estimated Annual Production:

	(1) Solar CEC-AC rating <sup>A</sup>	_____ (kW) X 1,500 <sup>B</sup>	=	_____ (kWh)
AND/OR	(2) Wind Nameplate rating	_____ (kW) X 2,190 <sup>C</sup>	=	_____ (kWh)
	(3) Total Energy Production	_____ (1) + (2)	=	_____ (kWh)

#### Estimated Annual Energy Usage:

(Solar systems ≤ 5 kW (CEC-AC) do not need to complete this section)

	(4) Recent annual usage	_____ (kWh) X 1.0	=	_____ (kWh)
OR (If 12 months usage not available)	(5) Building size	_____ (sq ft) X 3.00 <sup>D</sup>	=	_____ (kWh)
AND	(6) I plan to increase my annual usage (kWh) by	_____ (kWh)	=	_____ (kWh)
	(7) Total Energy Usage	(2 or 3) + (4)	=	_____ (kWh)

#### Net Generation:

	(8) Production - Usage		(3) - (7)	=	_____ (kWh)*
--	------------------------	--	-----------	---	--------------

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section J to read the provisions around Net Surplus Compensation (NSC).

<sup>A</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000  
<sup>B</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500  
<sup>C</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190  
<sup>D</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## Part III – Rate Selection

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM Account:** Select one rate from the category applicable to you. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

If your current rate is a closed rate, as identified in Footnote F, and you are now opting to move to a non-closed rate per the Otherwise Applicable Rate Schedule (OAS) for NEM Account, please check the box below acknowledging that you are leaving the closed rate and will not be able to select the closed rate in the future.

- I acknowledge and consent to leaving my current rate that is a closed rate

## Part IV – Interconnection Agreement Provisions

### A. Purpose

The purpose of this Net Energy Metering (NEM) Application and Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Agreement) is to allow Customer to interconnect with Pacific Gas and Electric Company's (PG&E) Distribution System, subject to the provisions of this Agreement and PG&E's Electric Schedule Net Energy Metering (NEM). Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with PG&E's Distribution System 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 requirements of the California Public Utilities Commission (CPUC).

### B. Applicability

This Agreement applies to Electric Schedule NEM 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 or less that is located on Customer's premises and that operates in parallel with PG&E's Distribution System.

### C. NEM Transition

Customers receiving service on the current NEM tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier, are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedule NEM at [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_SCHEDS\\_NEM.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHEDS_NEM.pdf) for more details.

### D. Permission to Operate

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.

### E. Safety

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, PG&E's Electric Rule 21, and other rules approved by the CPUC 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.



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### F. Safe Operation of your Generating Facility

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

#### G. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

#### H. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

#### I. NEM Billing

PG&E installs a "net meter" on a customer's property that measures the net energy, defined as the difference between the amount of electricity supplied by the energy provider and the amount of electricity exported to the grid over the course of a month. The Customer's account is enrolled in the NEM program and put on an annual (12- billing months) true-up cycle.

The meter is read monthly and an amount is calculated based on the net energy recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from PG&E in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from PG&E than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).

#### J. Net Surplus Compensation (NSC)

NSC payments are made to NEM customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_FORMS\\_79-1130.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1130.pdf). Participants in NEMA, please see provisions in Form 79-1153.

#### K. Limitation of Liability

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

#### L. 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.

#### M. Governing Authority

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



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### N. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM.

#### O. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.

#### P. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM.

#### Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>E</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

<sup>E</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments,
2. A completed signed Interconnection Agreement,
3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## Part V – Signature

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THIS ENTIRE DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY.**

**THIS FORM MUST BE SIGNED BY AN EXISTING PG&E CUSTOMER.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at <http://www.pge.com/about/company/privacy/customer>, PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to CPUC Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V above without further notification or consent.
- 3)4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 4)5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

Note: PG&E will accept electronic signatures that are verified by qualified Third Parties such as, Adobe EchoSign, e-SignLive, and DocuSign for this Agreement if the Agreement is completed in its entirety before signing.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM requirements.



**Electric Sample Form No. 79-1151A-02**

Sheet 1

Agreement And Customer Authorization Net Energy Metering (NEM2)  
Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Please Refer to Attached  
Sample Form**

*Advice* 6273-E-A  
*Decision* D21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 17, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM2) Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF or participants in the Demand Response Programs below are not eligible to participate in NEM2.
  - Peak Day Pricing (PDP)
  - Scheduled Load Reduction Program (SLRP)
  - SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM2 program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

Standard NEM2 Agreement Type:     Single Account     Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation 2 (NEM2A) is a program that allows customers with multiple meters to use the renewable energy generated at one meter to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.

Customer Sector (check only one):

<input type="checkbox"/> Residential	<input type="checkbox"/> Educational
<input type="checkbox"/> Commercial	<input type="checkbox"/> Military
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other Government
<input type="checkbox"/> Non-Profit	

Account Holder Name\* (Individual or Company) \_\_\_\_\_ Electric Service Agreement ID \* \_\_\_\_\_ Meter Number\* \_\_\_\_\_

Service Address\* \_\_\_\_\_ City\* \_\_\_\_\_ State CA Zip\* \_\_\_\_\_

Customer Phone Number \_\_\_\_\_ Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record) \_\_\_\_\_

Is there an electric vehicle charging on site at the above service address?     Yes     No  
 If yes, please indicate how many electric vehicles \_\_\_\_\_

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate     Unrestrained animal at meter or AC Disconnect Switch     Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist) \_\_\_\_\_ Contact Phone \_\_\_\_\_

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer’s behalf):

Company Name \_\_\_\_\_ Contact Person \_\_\_\_\_

Contact Phone Number \_\_\_\_\_ Email \_\_\_\_\_

**By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit Application Form 79-1151B-02 and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.**

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E’s Privacy Policy.  
 The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).  
 Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM2) Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

#### Part II – NEM2 Generator System Size

##### A. Interconnection Study and Requirements

This Agreement covers the installed Generating Facility nameplate listed in the accompanying Application Form 79-1151B-02.

The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) Application Form 79-1151B-02, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM2 systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. All NEM2 customers must take service on a Time-of-Use rate schedule and sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill<sup>A</sup>. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data.](#)"

##### B. Generator System Sizing

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:  Solar  Wind  Both

##### Estimated Annual Production:

	(1) Solar CEC-AC rating <sup>B</sup>	_____ (kW) X 1,500 <sup>C</sup>	=	_____ (kWh)
AND/OR	(2) Wind Nameplate rating	_____ (kW) X 2,190 <sup>D</sup>	=	_____ (kWh)
	(3) Total Energy Production	_____ (1) + (2)	=	_____ (kWh)

##### Estimated Annual Energy Usage:

(Solar systems ≤ 5 kW (CEC-AC) do not need to complete this section)

	(4) Recent annual usage	_____ (kWh) X 1.0	=	_____ (kWh)
OR (If 12 months usage not available)	(5) Building size	_____ (sq ft) X 3.00 <sup>E</sup>	=	_____ (kWh)
AND	(6) I plan to increase my annual usage (kWh) by	_____ (kWh)	=	_____ (kWh)
	(7) Total Energy Usage	(4 or 5) + (6)	=	_____ (kWh)

##### Net Generation:

	(8) Production – Usage		(3) - (7)	=	_____ (kWh)*
--	------------------------	--	-----------	---	--------------

<sup>A</sup> Customers on rate schedules such as ET, ES, and ESR, which do not have a corresponding TOU Rate, are not required to switch to TOU rates, unless and until such a rate becomes available.

<sup>B</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

<sup>C</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500

<sup>D</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190

<sup>E</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section H to read the provisions around Net Surplus Compensation (NSC).

## Part III – Rate Selection

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM2 Account:** Select one rate from the category applicable to you. NEM2 residential customers must be an applicable time-of-use rate<sup>F</sup> schedule. If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

## Part IV – Interconnection Agreement Provisions

### A. Applicability

This Agreement applies to Electric Schedule NEM2 Customer-Generators (Customer) who interconnect a solar and/or wind turbine electric Generating Facility, or a hybrid system of both, with an aggregate capacity of 30 kilowatts or less that is located on Customer's premises and that operates in parallel with PG&E's Distribution System.

### B. Permission to Operate

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.

### C. Safety

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, PG&E's Electric Rule 21, and other rules approved by the CPUC regarding safety and reliability. A Customer with a solar or wind-turbine electric 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.

### D. Safe Operation of your Generating Facility

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

### E. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

<sup>F</sup> Schedules such as ES, ESR or ET, which have no available corresponding time-of-use rate, are not required to switch to time-of-use rates, unless and until such a rate becomes available.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## F. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS) to establish how the Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

## G. NEM2 Billing

The Customer's meter separately measures exports and imports.

The meter is read monthly and an amount is calculated based on the net energy (kWh) and total energy(kWh) exports recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from the energy provider in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from PG&E than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

Additionally, the Customer will be billed for non-bypassable charges on all imports from the grid, as describe in Schedule NEM2 Special Condition 2.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM2 billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).

## H. Net Surplus Compensation (NSC)

NSC payments are made to NEM2 customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_FORMS\\_79-1130.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1130.pdf). Participants in NEM2A, please see provisions in *NEM2 Load Aggregation Appendix (Form 79-1153)*.

## I. Limitation of Liability

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## J. 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.

## K. Governing Authority

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

## L. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM2.

## M. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## N. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM2.

## O. CEC Listed

In order to promote the safety and reliability of the customer's Generating Facility, the applicant certifies that as a part its request for NEM2, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.

## P. Warranties or Service Agreements

Customer certifies as a part of its interconnection request for NEM2 that:

- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
- (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.

## Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-andtopics/topics/renewable-energy/solarequipment-lists>.)

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application <sup>G</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

<sup>G</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments,
2. A completed signed Interconnection Agreement, (continued on next page)
3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

## Part V – Signature

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THE FULLY POPULATED DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY.**

**THIS FORM MUST BE SIGNED BY THE EXISTING PG&E CUSTOMER LISTED IN PART I.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at <http://www.pge.com/about/company/privacy/customer>, PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to California Public Utilities Code (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 3)4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 4)5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

Note: PG&E can request additional documentation to verify the authenticity of the externally signed Agreement and Customer Authorization.

Please complete this agreement in its entirety



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM2 requirements.



**Electric Sample Form 79-1151B**

Sheet 1

APPLICATION

Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Please Refer to Attached Sample Form**



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- For a non-exporting Generating Facility, RES-BCT facility, or NEM Generating technologies other than 30 kW or less solar or wind, Customers must submit the online Form 79-974 available at [www.pge.com/gen](http://www.pge.com/gen).

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

\_\_\_\_\_  
Electric Service Agreement ID\*

\_\_\_\_\_  
Meter Number\*

Is there an electric vehicle charging on site at the above service address?  Yes  No  
If yes, please indicate how many electric vehicles \_\_\_\_\_

**B. Interconnection Application Type** (check one):

- New NEM Generating Facility interconnection at an existing PG&E service.
- Modify existing PG&E approved Generating Facility interconnection (adding/removing/replacing equipment).
  - Must provide a Custom Single-Line Drawing (SLD) showing the original system and the modified system.
- New interconnection in combination 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 PG&E Electric Rules 15 and 16. Please contact PG&E at 1-800-PGE-5000.
  - If this account will be established in a new subdivision, attach a list of lots/addresses and provide the following:

\_\_\_\_\_  
Developer Name

\_\_\_\_\_  
Development Name

**C. System Owner** (check one):

- PG&E Customer Owned

If PG&E Customer Owned, please answer the following:

Property Assessed Clean Energy (PACE) Financed?  Yes  No

Indicate the System Cost paid by Customer: \$ \_\_\_\_\_

PACE financed by which entity? \_\_\_\_\_

If you have non-PACE financing or a lease, please fill in the information below.

\_\_\_\_\_  
Financial Institution/Lessor Name

\_\_\_\_\_  
Financial Institution/Lessor Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

- Third Party Owned

If Third Party Owned, please answer the following:

Claimed Federal Investment Tax Credit (ITC) Cost Basis: \$ \_\_\_\_\_

Name of Developer at the time of sale: \_\_\_\_\_

Contract Type:  PPA  Lease  Pre-Paid Lease  Other \_\_\_\_\_

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E's Privacy Policy. The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**D. Rebate Information:**

Did you participate in a California rebate program?  Yes  No

Please indicate the rebate program that you participated in: \_\_\_\_\_

Rebate Amount: \$ \_\_\_\_\_

**Part I – Generating Facility Information and Responsible Parties – Continued**

**E. Contractor Information** (List who is installing the system):  Check this box if self-installed

Company Name	California Contractors State License Number
Company Address	Phone Number
Email	

**Home Improvement Salesperson (HIS) Registration Number Information**

Was a Home Improvement Salesperson (HIS) involved in the development of your project?

Yes       No

*California Public Utilities Commission Decision 21-02-026 requires “the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license.”*

If you checked “Yes” above:

Please provide the Home Improvement Salesperson (HIS) registration number below.

Home Improvement Salesperson (HIS) registration number: \_\_\_\_\_

**F. Preparer of this Application** (if not the PG&E Customer, the Preparer must be authorized to act on behalf of the Customer on the Interconnection Agreement and Customer Authorization Form 79-1151A):

Company Name	Preparer Name	Date Prepared
--------------	---------------	---------------

**G. Customer Impacted by a Natural or Man-Made Disaster**

Customers who were taking service on the NEM tariff prior to the total or partial destruction of their system have the option to resume service on the same NEM tariff if a request for reapplication is received within two years from the date of destruction. To be eligible for this provision, all the following must be true:

1. You are the same PG&E customer of record pre-system destruction



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

2. You are now reapplying with a system that is sized to your most recent 12 months usage, or estimated usage that is determined by building size<sup>1</sup> (if applicable)
3. You are not operating the new (either completely new or partially new) system without written permission from PG&E
4. Your NEM Transition Period has not expired at the time of reapplication (see NEM Tariff)

Based on the above, select the appropriate box (check one):

- I am a Customer who was impacted by a Natural or Man-Made Disaster as described in the NEM Tariffs and the above statements are true. I will submit my application online at <https://www.egi-pge.com/> and will include the complete system currently onsite on the single line diagram. If my previous system was destroyed, I will also state this on the single line diagram.
- I am either ineligible for this provision or this provision does not apply to my application. In either case, I will submit my application online at <https://www.egi-pge.com/>.

### Part II – Description of the Generating Facilities

- A. Variances from Distribution Interconnection Handbook (DIH) and Greenbook Requirements** (check one):  
Generating Facilities must meet the DIH and Greenbook requirements, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). A Variance Request must be submitted with the application for deviations, i.e. line-side tap, AC Disconnect > 10 ft from PG&E meter. (See Part III Section B for information on submitting Variance Request)
- The project meets the DIH and Greenbook Requirements and does not require a Variance Request.
- The project deviates from the DIH and Greenbook Requirements and I will include a Variance Request.

Note: Customers with Non-certified inverters or whose aggregate Generating Facility capacity exceeds 15% of the peak load on the distribution line section (or do not meet other Initial Review screens as described in Electric Rule 21) require a Supplemental Review which may result in further study, additional equipment, and/or other requirements. Customers will be notified if a Supplemental Review is required.

### Part II – Description of the Generating Facilities – Continued

**B. Photovoltaic (PV) Generating Facility Information**

To avoid application processing delays, the manufacturer and model numbers provided should be the same as they appear on the Go Solar California website: [http://www.gosolarcalifornia.ca.gov/links/equipment\\_links.php](http://www.gosolarcalifornia.ca.gov/links/equipment_links.php).

- B.1 Mounting Method:**     Rooftop     Ground     Mixed
- B.2 Tracking Type:**     Fixed     Single-Axis     Dual-Axis     Mixed

If fixed,  
please indicate:

Tilt: \_\_\_\_\_ degrees    Azimuth: \_\_\_\_\_ degrees

- B.3 Are Performance Monitoring and Reporting Services (PMRS) being utilized?**     Yes     No

Who is receiving the data (check all that apply):     Customer

<sup>1</sup>Building Size Calculation: Sq Ft X 3.23. Note: 2 watts/sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.19 solar capacity factor = 3.32



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

Third Party (list name) \_\_\_\_\_

**B.4 Photovoltaic Generator 1:**

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>B</sup> Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC <sup>C</sup> Rating kW/unit	Total Nameplate Capacity kW		Qty

**B.4 Photovoltaic Generator 2:**

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC Rating kW/unit	Total Nameplate Capacity kW		Qty

**C. Wind Turbine Generating Facility Information**

Check this box if the inverter is incorporated in the wind turbine. Then complete the Wind Turbine information below and identify the following: Output Voltage: \_\_\_\_\_(volts); Phase Type:  1  3

**Part II – Description of the Generating Facilities – Continued**

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
Wind Turbine Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Total Nameplate Capacity kW		Qty

**D. AC Disconnect Switch**

Check this box if no A/C Disconnect Switch is applicable. See Part III, Section C for requirements.

AC Disconnect Manufacturer	Model Number	Rating (amps)	Qty

<sup>A</sup> California Energy Commission (CEC) ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)  
<sup>C</sup> PTC: PVUSA Test Conditions. PTC ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

--	--	--

If applicable, is/are the AC Disconnect(s) less than 10 ft. of the PG&E electric meter?  Yes  No

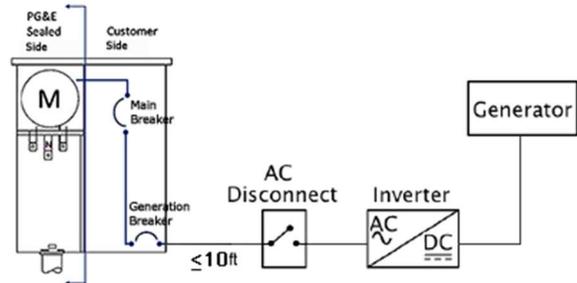
Note: PG&E's Electric and Gas Service Requirements, also known as the "Greenbook" requires the AC Disconnect Switch to be located 10 feet or less from PG&E's electric revenue meter at the point of common coupling or interconnection and easily seen from the panel. If the AC Disconnect Switch is greater than 10 feet or there is more than one AC Disconnect, a variance request must be submitted as outlined in Part II, Section A.

**E. Basic Single-Line Diagram (SLD) for Solar Projects** (check one):

I certify that the SLD below and the PV equipment information in Part II accurately represent the Customer's service, the Generating Facility (there are no other Generator Facility(ies) connected to the service, and the project does not require a Variance Request.

**Utility Service:** (if using the SLD to the right)

Panel Voltage (volts)	Main Breaker (amps)	PV Breaker Size (amps)



I will submit a custom SLD for one or more of the following reasons: there is/are existing Generating Facility(ies) connected to the service, I am modifying an existing Generating Facility, the Basic SLD does not accurately reflect the project, or I am submitting a Variance Request. (See Part III Section D for Custom SLD details.)

**F. Service Panel Short Circuit Interrupting Rating (SCIR)** (for total inverter nameplate ratings larger than 11 kW):

SCIR of the service panel connected to this Generating Facility: \_\_\_\_\_ watts



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part III – Interconnection Guidelines and Document Information

Note: Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM customers. Please contact Electric Generation Interconnection department at 415-972-5676 or email [gen@pge.com](mailto:gen@pge.com) if the proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland where the zip code is 94607 or 94612.

#### A. Documents

In addition to this NEM Interconnection Application, the documents listed below are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Customer's interconnection has been performed in accordance with PG&E's tariffs. Additional forms are available on PG&E's website at [www.pge.com/standardnem](http://www.pge.com/standardnem).

##### Required Documents

- Net Energy Metering (NEM) Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less and Customer Authorization Form 79-1151A.
- Copy of the final, signed, jurisdiction approval (building permit) for Customer's Generating Facility.

##### Additional Documents (if applicable)

- Variance Request (if project deviates from requirements in Part II Section A).
- Custom Single-Line Diagram (SLD) (if project does not meet Part II Section E basic SLD requirements).

Documents and requirements other than those listed above and/or fees *may* be required depending on the specifics of the planned Generating Facility.

#### B. Variance Request (if applicable)

The Customer or the Customer's Contractor can request a Variance Request review from PG&E if the project is unable to meet the requirements described in the Distribution Interconnection Handbook and Greenbook, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). The Variance Request must be submitted with the Interconnection Application and include the following.

1. Description of the proposal for which the Customer is requesting approval.
2. Customer name and project address.
3. Copy of the Custom Single Line Diagram or electrical drawings (Include the equipment, location, and/or distances for the proposed work).
4. Color photos of the Customer's area or section for the proposed work.
5. Manufacturer specification drawings for unapproved equipment that the Customer is requesting an approval.

#### C. AC Disconnect Switch Guidelines

PG&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.). The AC Disconnect Switch provides the additional benefit of allowing PG&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.

Customers **are not required** to include an AC Disconnect Switch when the facility has a single-phase self-contained electric revenue meter (i.e. 0-320 amp panel). However, if the Customer does not install an AC Disconnect Switch, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence.

An AC Disconnect Switch **is required** for a Customer with:

- Inverter-based interconnections having a three-phase self-contained meter or 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 - irrespective of whether the service meter configuration is transformer-rated or self-contained.



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

- Inverter and non-inverter based generators that do not have overcurrent protection at the point of interconnection.

### Part III – Interconnection Guidelines and Document Information – Continued

#### D. Custom Single-line Diagram (SLD) (if applicable)

The Custom SLD must include the information below for identified equipment.

1. Manufacturer, model number, nameplate rating, quantity:
  - a) Inverter(s), PV or wind turbine generators, AC Disconnect Switch, generation output meter and instrument transformers.
2. Electrical rating and operating voltages:
  - a) Service panel, circuit breaker, and other Generating Facility protective devices
3. Location of:
  - a) Customer's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System.
  - b) AC Disconnect Switch.
4. 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 based on the total nameplate rating of the inverter.

**E. Governing Authority.** This form at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

Please submit the Agreement and Customer Authorization and Application online at [www.pge.com/standardnem](http://www.pge.com/standardnem).



**Electric Sample Form No. 79-1151B-02**

Sheet 1

Application - Net Energy Metering (NEM2) Interconnection For Solar And/Or  
Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Please Refer to Attached  
Sample Form**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### IMPORTANT NOTES:

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- For a non-exporting Generating Facility, RES-BCT facility, or NEM2 Generating technologies other than 30 kW or less solar or wind, Customers must submit the online Form 79-1174-02 available at [www.pge.com/gen](http://www.pge.com/gen).

### Part I – Generating Facility Information and Responsible Parties

#### A. Customer and Generating Facility Information (\*as it appears on the PG&E bill):

Electric Service Agreement ID\*

Meter Number\*

#### B. Interconnection Application Type (check one):

- New NEM2 Generating Facility interconnection at an existing PG&E service.
- Modify existing PG&E approved Generating Facility interconnection (adding/removing/replacing equipment).
- Must provide a Custom Single-Line Drawing (SLD) showing the original system and the modified system.

#### C. System Owner (check one):

- PG&E Customer Owned

If PG&E Customer Owned, please answer the following:

Property Assessed Clean Energy (PACE) Financed?  Yes  No

PACE financed by which entity? \_\_\_\_\_

Indicate the System Cost paid by Customer: \$ \_\_\_\_\_

If you have non-PACE financing or a lease, please fill in the information below.

Financial Institution/Lessor Name \_\_\_\_\_

Financial Institution/Lessor Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

- Third Party Owned

If Third Party Owned, please answer the following:

Claimed Federal Investment Tax Credit (ITC) Cost Basis: \$ \_\_\_\_\_

Name of Developer at the time of sale: \_\_\_\_\_

Contract Type:  PPA  Lease  Pre-Paid Lease  Other \_\_\_\_\_

#### D. Rebate Information:

Did the Customer participate in a California rebate program?  Yes  No

Please indicate the rebate program that you participated in: \_\_\_\_\_

Rebate Amount: \$ \_\_\_\_\_

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E's Privacy Policy.  
The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part I – Generating Facility Information and Responsible Parties – Continued

**E. Contractor Information** (List who is installing the system):  Check this box if self-installed

Company Name	California Contractors State License Number		
Street Address	City	State	Zip
Email	Phone Number		

#### Home Improvement Salesperson (HIS) Registration Number Information

Was a Home Improvement Salesperson (HIS) involved in the development of your project?

Yes       No

California Public Utilities Commission Decision 21-02-026 requires “the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor’s license.”

If you checked “Yes” above:

Please provide the Home Improvement Salesperson (HIS) registration number below.

Home Improvement Salesperson (HIS) registration number: \_\_\_\_\_

**F. Preparer of this Application** (if not the PG&E Customer, the Preparer must be authorized to act on behalf of the Customer on the Interconnection Agreement and Customer Authorization Form 79-1151-02A):

Company Name	Preparer Name	Date Prepared
--------------	---------------	---------------

### Part II – Description of the Generating Facilities

**A. Variances from Distribution Interconnection Handbook (DIH) and Greenbook Requirements** (check one):  
Generating Facilities must meet the DIH and Greenbook requirements, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). A Variance Request must be submitted with the application for deviations, i.e. line-side tap, AC Disconnect > 10 ft from PG&E meter. (See Part III Section B for information on submitting Variance Request)

- The project meets the DIH and Greenbook Requirements and does not require a Variance Request.
- The project deviates from the DIH and Greenbook Requirements and I will include a Variance Request.

**B. Photovoltaic (PV) Generating Facility Information**

To avoid application processing delays, the manufacturer and model numbers provided should be the same as they appear on the Go Solar California website: [http://www.gosolarcalifornia.ca.gov/links/equipment\\_links.php](http://www.gosolarcalifornia.ca.gov/links/equipment_links.php).

- B.1 Mounting Method:**     Rooftop       Ground       Mixed
- B.2 Tracking Type:**       Fixed       Single-Axis       Dual-Axis       Mixed

If fixed,  
please indicate:

Tilt: \_\_\_\_\_ degrees    Azimuth: \_\_\_\_\_ degrees

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

---

**B.3 Are Performance Monitoring and Reporting Services (PMRS) being utilized?**  Yes  No

Who is receiving the data (check all that apply):  Customer

Third Party (list name) \_\_\_\_\_



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part II – Description of the Generating Facilities – Continued

#### B.4 Photovoltaic Generator 1:

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>A</sup> Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC <sup>B</sup> Rating kW/unit	Total Nameplate Capacity kW		Qty

#### B.4 Photovoltaic Generator 2:

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC Rating kW/unit	Total Nameplate Capacity kW		Qty

#### C. Wind Turbine Generating Facility Information

Check this box if the inverter is incorporated in the wind turbine. Then complete the Wind Turbine information below and identify the following: Output Voltage: \_\_\_\_\_(volts); Phase Type:  1  3

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
Wind Turbine Manufacturer	Model Number	Nameplate Rating kW/unit	CEC Rating kW/unit	Total Nameplate Capacity kW		Qty

#### D. AC Disconnect Switch

Check this box if no A/C Disconnect Switch is applicable. See Part III, Section C for requirements.

AC Disconnect Manufacturer	Model Number	Rating (amps)	Qty

If applicable, is/are the AC Disconnect(s) within 10 ft. of the PG&E electric meter?  Yes  No

Note: PG&E's Electric and Gas Service Requirements, also known as the "Greenbook" requires the AC Disconnect Switch to be located 10 feet or less from PG&E's electric revenue meter at the point of common coupling or interconnection and easily seen from the panel. If the AC Disconnect Switch is greater than 10 feet or there is more than one AC Disconnect, a variance request must be submitted as outlined in Part II, Section A.

<sup>A</sup> California Energy Commission (CEC) ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)

<sup>B</sup> PTC: PVUSA Test Conditions. PTC ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)

**Please complete this agreement in its entirety**

# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part II – Description of the Generating Facilities – Continued

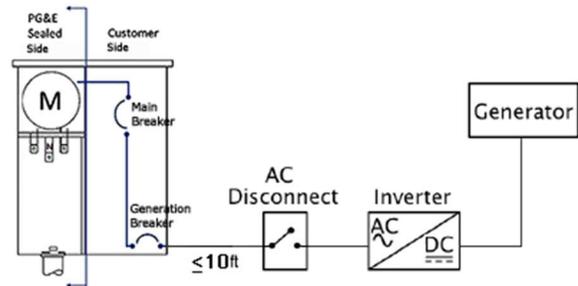
**E. Basic Single-Line Diagram (SLD) for Solar Projects** (check one):

I certify the following:

- 1) SLD below and the PV equipment information in Part II accurately represent the Customer's service,
- 2) the Generating Facility (there are no other Generator Facility(ies) connected to the service, and
- 3) the project does not require a Variance Request.

**Utility Service:** (if using the SLD to the right)

Panel Voltage (volts)	Main Breaker (amps)	PV Breaker Size (amps)



I will submit a custom SLD for one or more of the following reasons: there is/are existing Generating Facility(ies) connected to the service, I am modifying an existing Generating Facility, the Basic SLD does not accurately reflect the project, or I am submitting a Variance Request.  
(See Part III Section D for Custom SLD details.)

**F. Service Panel Short Circuit Interrupting Rating (SCIR)** (for total inverter nameplate ratings larger than 11 kW):

SCIR of the service panel connected to this Generating Facility: \_\_\_\_\_ amps

**G. Customer Impacted by a Natural or Man-Made Disaster**

Customers who were taking service on the NEM 2 tariff prior to the total or partial destruction of their system have the option to resume service on the same NEM tariff if a request for reapplication is received within two years from the date of destruction. To be eligible for this provision, all the following must be true:

1. You are the same PG&E customer of record pre-system destruction
2. You are now reapplying with a system that is sized to your most recent 12 months usage, or estimated usage that is determined by building size<sup>C</sup> (if applicable)
3. You are not operating the new (either completely new or partially new) system without written permission from PG&E
4. Your NEM Transition Period has not expired at the time of reapplication (see NEM 2 Tariff)

Based on the above, select the appropriate box:

I am a Customer who was impacted by a Natural or Man-Made Disaster as described in the NEM Tariffs and the above statements are true. I will submit my application online at <https://www.egi-pge.com/> and will include the complete system currently onsite on the single line diagram. If my previous system was destroyed, I will also state this on the single line diagram.

I am either ineligible for this provision or this provision does not apply to my application. In either case, I will submit my application online at <https://www.egi-pge.com/>.

<sup>C</sup>Building Size Calculation: Sq Ft X 3.23. Note: 2 watts/sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.19 solar capacity factor = 3.32

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part III – Interconnection Guidelines and Document Information

Note: Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM2 customers. Please contact PG&E's Solar Customer Service Center at 877-743-4112, or email [SNEMHelp@pge.com](mailto:SNEMHelp@pge.com) if the proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland where the zip code is 94607 or 94612.

#### A. Documents

In addition to this NEM2 Interconnection Application, the documents listed below are needed to ensure safe and reliable operation of PG&E's Electric System and to confirm that Customer's interconnection has been performed in accordance with PG&E's tariffs. Additional forms are available on PG&E's website at [www.pge.com/standardnem](http://www.pge.com/standardnem).

##### Required Documents

- Net Energy Metering (NEM2) Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less and Customer Authorization Form 79-1151-02A.
- Copy of the final, signed, jurisdiction approval (building permit) for Customer's Generating Facility.

##### Additional Documents (if applicable)

- Variance Request (if project deviates from requirements in Part II Section A).
- Custom Single-Line Diagram (SLD) (if project does not meet Part II Section E basic SLD requirements).

Documents and requirements other than those listed above and/or fees *may* be required depending on the specifics of the planned Generating Facility.

#### B. Variance Request (if applicable)

The Customer or the Customer's Contractor can request a Variance Request review from PG&E if the project is unable to meet the requirements described in the Distribution Interconnection Handbook and Greenbook, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). The Variance Request must be submitted with the Interconnection Application and include the following.

1. Description of the proposal for which the Customer is requesting approval.
2. Customer name and project address.
3. Copy of the Custom Single Line Diagram or electrical drawings (Include the equipment, location, and/or distances for the proposed work).
4. Color photos of the Customer's area or section for the proposed work.
5. Manufacturer specification drawings for unapproved equipment that the Customer is requesting an approval.

#### C. AC Disconnect Switch Guidelines

PG&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.). The AC Disconnect Switch provides the additional benefit of allowing PG&E to isolate the Customer's generator from the utility's Electric System without having to interrupt service to the customer's facility or residence.

Customers **are not required** to include an AC Disconnect Switch when the facility has a single-phase self-contained electric revenue meter (i.e. 0-320 amp panel). However, if the Customer does not install an AC Disconnect Switch, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence.

An AC Disconnect Switch **is required** for a Customer with:

- Inverter-based interconnections having a three-phase self-contained meter or 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 - irrespective of whether the service meter configuration is transformer-rated or self-contained.
- 

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part III – Interconnection Guidelines and Document Information - Continued

- Inverter and non-inverter based generators that do not have overcurrent protection at the point of interconnection.

#### D. Custom Single-line Diagram (SLD) (if applicable)

The Custom SLD must include the information below for identified equipment.

1. Manufacturer, model number, nameplate rating, quantity:
  - a) Inverter(s), PV or wind turbine generators, AC Disconnect Switch, generation output meter and instrument transformers.
2. Electrical rating and operating voltages:
  - a) Service panel, circuit breaker, and other Generating Facility protective devices
3. Location of:
  - a) Customer's loads relative to the Generating Facility, and the interconnection with PG&E's Electric System.
  - b) AC Disconnect Switch.
4. 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 based on the total nameplate rating of the inverter.

**E. Governing Authority.** This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

Please submit the Agreement and Customer Authorization and Application online at [www.pge.com/standardnem](http://www.pge.com/standardnem).



**Electric Sample Form No. 79-1174-02D**  
Rule 21 Generator Interconnection Application - Attachment D

Sheet 1

**Please Refer to Attached  
Sample Form**

(Continued)

*Advice* 6273-E-A  
*Decision* D21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 17, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

### Part I - Describing the Generating Facility and Host Customer's Electrical Facilities

Please complete the following table for the specific generator technology indicated.

Instructions				
Inverter	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>Please indicate the number of each <b>"type"</b> and <b>quantity</b> of Generator being installed</p> <p>Be sure all Generators classified as one "type" are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p>				
<p>A - Generator/Inverter Manufacturer</p> <p>Enter the brand name of the Generator.</p>				
<p>B - Generator/Inverter Model</p> <p>Enter the model name or number assigned by the manufacturer of the Generator.</p>				
<p>C - Generator/Inverter Software Version</p> <p>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.</p>				
<p>D - Is the Generator/Inverter certified?</p> <p>Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&amp;E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory.</p> <p>See PG&amp;E's Rule 21, Section L for additional information regarding Generator certification.</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>	<p style="text-align: center;">___ Yes</p> <p style="text-align: center;">___ No</p>



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Modules.	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>	<u>Manufacturer</u>  <u>Model #.</u>  <u>Quantity</u>
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 - 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 PG&E's Rule 21, Section H.2.b. and Table H.1., for additional information.				
H - Power Factor Rating  This value should be the nominal power factor rating designated by the manufacturer for the Generator.  See PG&E's Rule 21, Section H.2.i. for additional information.				
I - PF Adjustment Range  Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values.  See PG&E's Rule 21, Section H.2.i.				
J - Wiring Configuration  Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.				



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<b>K - AC Disconnect</b> For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.  See PG&E's Rule 21, Section H.1.d  Located within 10 feet of the PG&E meter?	_____ Manufacturer _____ Model # _____ Rating (amps)	_____ Manufacturer _____ Model # _____ Rating (amps)	_____ Manufacturer _____ Model # _____ Rating (amps)	_____ Manufacturer _____ Model # _____ Rating (amps)
<b>L - Lineside Tap</b> PG&E has special requirements for a lineside tap.  Contact PG&E at: <a href="mailto:Rule21Gen@PGE.com">Rule21Gen@PGE.com</a> for more information.	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No
<b>N - Warranty or Service Agreement</b> Applicant has verified that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No

### Part II Solar Statistics Data Fields

Per Appendix A of CPUC D. 14-11-001, the following data fields must all be completed, in their entirety, in order to initiate PG&E's interconnection review of the proposed Generating Facility. *Only complete Part II if the solar generating facility is serving as part of a Net Energy Metering (NEM2) arrangement..*

**A. Customer Sector (Check one)**

- |                                           |                                      |                                     |
|-------------------------------------------|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Residential      | <input type="checkbox"/> Educational | <input type="checkbox"/> Industrial |
| <input type="checkbox"/> Commercial       | <input type="checkbox"/> Military    | <input type="checkbox"/> Non-Profit |
| <input type="checkbox"/> Other Government |                                      |                                     |



INTERCONNECTION APPLICATION (Form 79-1174-02)
ATTACHMENT D

SOLAR (PV) TECHNOLOGY

B. Are Performance Monitoring and Reporting Services (PMRS) being utilized?

Yes No

If yes, please indicate who is receiving the data? (check all that apply)

- Customer
3rd Party (list name)

C. Are there electric vehicles charging on site at the above generating facility address?

Yes No

If yes, please indicate how many electric vehicles

D. System Ownership and Financing

i. System Owner (check one):

PG&E Customer Owned

If PG&E Customer Owned, please answer the following:

Indicate the System Cost paid by Customer: \$

Property Assessed Clean Energy (PACE) Financed?

Yes No

If Yes, PACE financed by which entity?

If you have non-PACE financing or a lease, please fill in the information below

Financial Institution/Lessor Name

Financial Institution/Lessor Address

City

State

Zip

Third Party Owned

If Third Party Owned, please answer the following:

Claimed Federal Investment Tax Credit (ITC) Cost Basis: \$

Name of Developer at the time of sale:

Contract Type: PPA Lease Pre-Paid Lease Other

ii. Rebate Information:

Did you participate in a California rebate program? Yes No

Please indicate the rebate program that you participated in:

Rebate Amount: \$

If you are participating in the Single-family Affordable Solar Home (SASH) program, please provide SASH project number:



# INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

**E. Additional Generating Facility Information (Solar PV Only)**

**i. Mounting Method:**       Rooftop       Ground       Mixed

**ii. Tracking Type:**       Fixed       Single-Axis       Dual-Axis       Mixed

If fixed, please indicate: Tilt: \_\_\_\_\_ degrees      Azimuth: \_\_\_\_\_ degrees

**F. Installer's/Vendor's California State Contractor License Number:** \_\_\_\_\_

**G. CPUC Consumer Protection Requirements Pursuant to Decision 21-06-026**

**a. Home Improvement Salesperson (HIS) Registration Number**

Was a Home Improvement Salesperson (HIS) involved in the development of your project?

Yes       No

California Public Utilities Commission (CPUC) Decision 21-02-026 requires "the Home Improvement Salesperson (HIS) registration number of solar providers who are required to have a HIS registration number, while enabling solar providers who are not required to have a HIS registration number to indicate they are exempt and to instead provide the applicable contractor's license."

If you checked "Yes" above:

Please provide the Home Improvement Salesperson (HIS) registration number below.

Home Improvement Salesperson (HIS) registration number:

\_\_\_\_\_



**Electric Sample Form No. 79-1193**

Sheet 1

Agreement and Customer Authorization Net Energy Metering (NEM) Interconnection for Solar and/or  
Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less,  
or Energy Storage with Power Control System Certification

**Please Refer to Attached  
Sample Form**

(Continued)

*Advice* 6273-E-A  
*Decision* D21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 17, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Paired with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF and participants in the Demand Response Programs below are not eligible to participate in NEM.
  - Scheduled Load Reduction Program (SLRP) ○ SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

NEM 30 kilowatts or Less Paired with Energy Storage:  Single Account  Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation (NEMA) is a program that allows customers with multiple meters to use the renewable energy generated at one meter (up to 1MW) to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator. Energy Storage system must be 10 kilowatts or less.

Customer Sector (check only one):

<input type="checkbox"/> Residential	<input type="checkbox"/> Educational
<input type="checkbox"/> Commercial	<input type="checkbox"/> Military
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other Government
<input type="checkbox"/> Non-Profit	

Account Holder Name* (Individual or Company)	Electric Service Agreement ID *	Meter Number*
Service Address*	City*	State <span style="margin-left: 20px;">CA</span> Zip*
Customer Phone Number	Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)	

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate    
  Unrestrained animal at meter or AC Disconnect Switch    
  Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist)	Contact Phone
---------------------------------------------------------	---------------



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer’s behalf):

Company Name	Contact Person
Contact Phone Number	Email

By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit an Interconnection Request and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.

**Part II – NEM Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the associated Interconnection Request. The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) a valid Interconnection Request, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM systems should be sized with an estimated annual production no larger than 100% of the Customer’s total previous 12 months of usage (annual usage) and projected future increase. For customers on a Time-of-Use rate, sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill. For customer who are not on a Time-of-Use rate, you might want to size your system larger (90-95% of your annual load), in order to minimize your electricity bill. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled “[Access, download, or share usage data](#).” System sizing eligibility will be reviewed using the criteria below.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## B. Generator System Sizing

Please complete this section only if installing a new Solar or Wind system or modifying an existing Solar or Wind system. This section is not applicable if only adding energy storage to an existing previously interconnected Solar or Wind system.

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:       Solar       Wind       Both

**Estimated Annual Production:**

(1) Solar CEC-AC rating<sup>A</sup>      \_\_\_\_\_ (kW) X 1,500<sup>B</sup> = \_\_\_\_\_ (kWh)  
 AND/OR (2) Wind Nameplate rating      \_\_\_\_\_ (kW) X 2,190<sup>C</sup> = \_\_\_\_\_ (kWh)  
 (3) Total Energy Production      \_\_\_\_\_ (1) + (2) = \_\_\_\_\_ (kWh)

**Estimated Annual Energy Usage:**

(4) Recent annual usage      \_\_\_\_\_ (kWh) X 1.0 = \_\_\_\_\_ (kWh)  
 OR (If 12 months usage not available) (5) Building size      \_\_\_\_\_ (sq ft) X 3.00<sup>D</sup> = \_\_\_\_\_ (kWh)  
 AND (6) I plan to increase my annual usage (kWh) by      \_\_\_\_\_ (kWh)  
 (7) Total Energy Usage      (2 or 3) + (4) = \_\_\_\_\_ (kWh)

**Net Generation:**

(8) Production - Usage      (3) - (7) = \_\_\_\_\_ (kWh)\*

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section J to read the provisions around Net Surplus Compensation (NSC).

**A Non-NEM Eligible Energy Storage System or an Energy Storage System with a Certified Power Control System (see Section R):**

Energy Storage System Rating \_\_\_\_\_ kW

Does the energy storage system share an inverter with the NEM system?     Yes     No

If not, please provide:

Energy Storage Inverter Rating \_\_\_\_\_ kW

<sup>A</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000  
<sup>B</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500  
<sup>C</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190  
<sup>D</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## Part III – Rate Selection

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM Account:** Select one rate from the category applicable to you. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

If your current rate is a closed rate, as identified in Footnote F, and you are now opting to move to a non-closed rate per the Otherwise Applicable Rate Schedule (OAS) for NEM Account, please check the box below acknowledging that you are leaving the closed rate and will not be able to select the closed rate in the future.

- I acknowledge and consent to leaving my current rate that is a closed rate.

## Part IV – Interconnection Agreement Provisions

### A. Purpose

The purpose of this Net Energy Metering (NEM) Application and Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Agreement) is to allow Customer to interconnect with Pacific Gas and Electric Company's (PG&E) Distribution System, subject to the provisions of this Agreement and PG&E's Electric Schedule Net Energy Metering (NEM). Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with PG&E's Distribution System 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 requirements of the California Public Utilities Commission (CPUC).

### B. Applicability

This Agreement applies to Electric Schedule NEM 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 or less that is located on Customer's premises and that operates in parallel with PG&E's Distribution System.

### C. NEM Transition

Customers receiving service on the current NEM tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier, are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedule NEM at [http://www.pge.com/tariffs/tm2/pdf/ELEC\\_SCHEDS\\_NEM.pdf](http://www.pge.com/tariffs/tm2/pdf/ELEC_SCHEDS_NEM.pdf) for more details.

### D. Permission to Operate

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## E. Safety

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, PG&E's Electric Rule 21, and other rules approved by the CPUC 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.

## F. Safe Operation of your Generating Facility

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

## G. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

## H. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

## I. NEM Billing

PG&E installs a "net meter" on a customer's property that measures the net energy, defined as the difference between the amount of electricity supplied by the energy service provider and the amount of electricity exported to the grid over the course of a month. The Customer's account is enrolled in the NEM program and put on an annual (12- billing months) true-up cycle.

The meter is read monthly and an amount is calculated based on the net energy recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from PG&E in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from PG&E than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## J. Net Surplus Compensation (NSC)

NSC payments are made to NEM customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [www.pge.com/nscoptout](http://www.pge.com/nscoptout) to complete Form 79-1130. Participants in NEMA, please see provisions in Form 79-1153.

## K. Limitation of Liability

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## L. 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.

## M. Governing Authority

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

## N. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM.

## O. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.

## P. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>E</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

## R. Power Control System Certification

By signing below, customer confirms that Energy Storage over 10 kW has received UL 1741 CRD for Power Control Systems (PCS) certification that will comply with either No Grid Charge or No Storage Export as defined in Schedule NEM2.

<sup>E</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments
2. A completed signed Interconnection Agreement
3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**Part V – Signature**

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THIS ENTIRE DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY.**

**THIS FORM MUST BE SIGNED BY AN EXISTING PG&E CUSTOMER.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at [www.pge.com/about/company/privacy/customer], PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to CPUC Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 2)4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 3)5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

Note: PG&E will accept electronic signatures that are verified by qualified Third Parties such as, Adobe EchoSign, e-SignLive, and DocuSign for this Agreement if the Agreement is completed in its entirety before signing.



**AGREEMENT AND CUSTOMER AUTHORIZATION  
Net Energy Metering (NEM) Interconnection  
For Solar And/Or Wind Electric Generating  
Facilities Of 30 Kilowatts Or Less with Energy  
Storage of 10 Kilowatts Or Less or Energy Storage  
with Power Control System Certification**

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM requirements.



**Electric Sample Form No. 79-1193-02**

Sheet 1

Agreement and Customer Authorization Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification

**Please Refer to Attached  
Sample Form**

(Continued)

*Advice* 6273-E-A  
*Decision* D21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 17, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF or participants in the Demand Response Programs below are not eligible to participate in NEM2.
  - Scheduled Load Reduction Program (SLRP)
  - SmartRate
- Customers who participate in Direct Access and Community Choice Aggregation must contact their Energy Service Provider directly regarding their NEM2 program.

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information (\*as it appears on the PG&E bill):**

Standard NEM2 Agreement Type:  Single Account  Multiple Aggregated Accounts

Note: Net Energy Metering Aggregation 2 (NEM2A) is a program that allows customers with multiple meters to use the renewable energy generated at one meter to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.

Customer Sector (check only one):  Residential  Educational  Commercial  Military  Industrial  Other Government  Non-Profit

Account Holder Name\* (Individual or Company) Electric Service Agreement ID \* Meter Number\*

Service Address\* City\* State Zip\* CA

Customer Phone Number Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)

Is there an electric vehicle charging on site at the above service address?  Yes  No  
If yes, please indicate how many electric vehicles \_\_\_\_\_

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate  Unrestrained animal at meter or AC Disconnect Switch  Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist) Contact Phone

**Please complete this agreement in its entirety**

† Information collected on this form is used in accordance with PG&E’s Privacy Policy.  
The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).  
Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**C. Authorized Contact Information** (required if Customer is authorizing a third party to act on Customer's behalf):

Company Name	Contact Person
Contact Phone Number	Email

By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit an Interconnection Request and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.

**Part II – NEM2 Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the associated Interconnection Request. The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) a **valid Interconnection Request**, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

NEM2 systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. All NEM2 customers must take service on a Time-of-Use rate schedule and sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill<sup>A</sup>. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data.](#)"

<sup>A</sup> Customers on rate schedules such as ET, ES, and ESR, which do not have a corresponding TOU Rate, are not required to switch to TOU rates, unless and until such a rate becomes available.

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## B. Generator System Sizing

Please complete this section only if installing a new Solar or Wind system or modifying an existing Solar or Wind system. This section is not applicable if only adding energy storage to an existing previously interconnected Solar or Wind system.

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type:             Solar                             Wind                             Both

**Estimated Annual Production:**

(1) Solar CEC-AC rating<sup>B</sup>                            \_\_\_\_\_ (kW) X 1,500<sup>C</sup> = \_\_\_\_\_ (kWh)

AND/OR (2) Wind Nameplate rating                            \_\_\_\_\_ (kW) X 2,190<sup>D</sup> = \_\_\_\_\_ (kWh)

(3) Total Energy Production                            \_\_\_\_\_ (1) + (2) = \_\_\_\_\_ (kWh)

**Estimated Annual Energy Usage:**

(Solar systems ≤ 5 kW (CEC-AC) do not need to complete this section)

(4) Recent annual usage                            \_\_\_\_\_ (kWh) X 1.0 = \_\_\_\_\_ (kWh)

OR (If 12 months usage not available) (5) Building size                            \_\_\_\_\_ (sq ft) X 3.00<sup>E</sup> = \_\_\_\_\_ (kWh)

AND (6) I plan to increase my annual usage (kWh) by                            \_\_\_\_\_ (kWh)

(7) Total Energy Usage                            (4 or 5) + (6) = \_\_\_\_\_ (kWh)

**Net Generation:**

(8) Production – Usage                            (3) – (7) = \_\_\_\_\_ (kWh)\*

\*Positive number indicates that the system is estimated to generate more than the estimated usage. Please refer to Part IV, Section H to read the provisions around Net Surplus Compensation (NSC).

**A Non-NEM Eligible Energy Storage System or an Energy Storage System with a Certified Power Control System (see Section R):**

Energy Storage Rating                            \_\_\_\_\_ kW

Does the energy storage system share an inverter with the NEM system?     Yes     No

If not, please provide:

<sup>B</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000  
<sup>C</sup> 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500  
<sup>D</sup> 8,760 hrs/yr x 0.25 wind capacity factor = 2,190  
<sup>E</sup> 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

Energy Storage Inverter Rating \_\_\_\_\_ kW

**Part III – Rate Selection**

**A. Current Rate:** Please identify your existing rate by reviewing your PG&E energy statement or by calling the phone number listed below.

**Otherwise Applicable Rate Schedule (OAS) for NEM2 Account:** Select one rate from the category applicable to you. NEM2 residential customers must be an applicable time-of-use rate<sup>F</sup> schedule. If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

- Stay on existing rate
- Requested new rate \_\_\_\_\_

**Part IV – Interconnection Agreement Provisions**

**A. Applicability**

This Agreement applies to Electric Schedule NEM2 Customer-Generators (Customer) who interconnect a solar and/or wind turbine electric Generating Facility, or a hybrid system of both, with an aggregate capacity of 30 kilowatts or less that is located on Customer’s premises and that operates in parallel with PG&E’s Distribution System.

**B. Permission to Operate**

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission from PG&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.

**C. Safety**

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, PG&E’s Electric Rule 21, and other rules approved by the CPUC regarding safety and reliability. A Customer with a solar or wind-turbine electric 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.

**D. Safe Operation of your Generating Facility**

<sup>F</sup> Schedules such as ES, ESR or ET, which have no available corresponding time-of-use rate, are not required to switch to time-of-use rates, unless and until such a rate becomes available.

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

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

## E. AC Disconnect Switch

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

## F. Rate

Customer has confirmed their otherwise applicable rate schedule (OAS) to establish how the Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

## G. NEM2 Billing

The Customer's meter separately measures exports and imports.

The meter is read monthly and an amount is calculated based on the net energy (kWh) and total energy(kWh) exports recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from the energy supplier in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from the energy supplier than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

Additionally, the Customer will be billed for non-bypassable charges on all imports from the grid, as describe in Schedule NEM2 Special Condition 2.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM2 billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).

## H. Net Surplus Compensation (NSC)

NSC payments are made to NEM2 customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [www.pge.com/nscoptout to complete Form 79-1130](http://www.pge.com/nscoptout to complete Form 79-1130). Participants in NEM2A, please see provisions in *NEM2 Load Aggregation Appendix (Form 79-1153)*.

## I. Limitation of Liability



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

PG&E's and Customer's (Individually Party or together Parties) liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## J. 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.

## K. Governing Authority

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

## L. Term of Agreement

This Agreement shall become effective as of the date of PG&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 PG&E operating this approved generating facility. This new Customer will be interconnected subject to the terms and conditions as set forth in Schedule NEM2.

## M. Meter Access

The electric meter must be installed in a safe location easily accessible upon PG&E request.

## N. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM2.

## O. CEC Listed

In order to promote the safety and reliability of the customer's Generating Facility, the applicant certifies that as a part its request for NEM2, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.

## P. Warranties or Service Agreements

Applicant certifies as a part of its interconnection request for NEM2 that:

- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
- (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

## Q. Smart Inverters

For Customer applications received on or after September 9, 2017, the Customer certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer's inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.

Verification of compliance with such requirements shall be provided by the Customer upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>6</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. A Customer replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

## R. Power Control System Certification

By signing below, customer confirms that Energy Storage over 10 kW has received UL 1741 CRD for Power Control Systems (PCS) certification that will comply with either No Grid Charge or No Storage Export as defined in Schedule NEM2.

<sup>6</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments
- 2. A completed signed Interconnection Agreement
- 3. Evidence of the Customer final inspection clearance from the governmental authority having jurisdiction over the generating system.

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification

**Part V – Signature**

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THE FULLY POPULATED DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY. THIS FORM MUST BE SIGNED BY THE EXISTING PG&E CUSTOMER LISTED IN PART I.**

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at [www.pge.com/about/company/privacy/customer], PG&E generally does not sell or disclose personal information about you, such as your name, address, phone number, or electric account and billing information, to third parties unless you expressly authorize us to do so. The purpose of this form is to allow you, the customer, to exercise your right to choose whether to disclose your personal electricity usage data and other personal information to a third party. Once you authorize a third party to access personal information about you, you are responsible for ensuring that the third party safeguards the personal information from further disclosure without your consent.

As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the “State Entities”).

By signing below, I declare under penalty of perjury under the laws of the State of California that:

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 3)4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 4)5) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E’s Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

**Please complete this agreement in its entirety**



# **AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification**

Note: PG&E can request additional documentation to verify the authenticity of the externally signed Agreement and Customer Authorization.

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM2 requirements.



**ELECTRIC SAMPLE FORM NO. 79-978**

Sheet 1

Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of  
1,000 Kilowatts or Less,  
Other Than Facilities of 30 Kilowatts or Less

**Please Refer to Attached  
Sample Form**



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

This *Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 kW or Less, Other Than Facilities of 30 kW or Less* (Agreement)<sup>1</sup> is entered into by and between \_\_\_\_\_ (Customer-Generator), and Pacific Gas and Electric Company (PG&E), a California Corporation. Customer-Generator and PG&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 Customer-Generator to interconnect and operate a Generating Facility in parallel with PG&E's Distribution System to serve the electrical loads connected to the electric service agreement ID number that PG&E uses to interconnect Customer-Generator's Generating Facility. Customer-Generator's Generating Facility is intended primarily to offset part or all of the Customer-Generator's own electrical requirements. Consistent with, and in order to effectuate, the provisions of Sections 2827, 2827.7 and 2827.8 of the California Public Utilities Code and PG&E's electric rate Schedule NEM (NEM), Parties enter into this Agreement. This Agreement applies to the Customer-Generator'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 AND DESCRIPTION OF CUSTOMER-GENERATOR'S GENERATING FACILITY AND DESIGNATION OF OTHERWISE-APPLICABLE RATE SCHEDULE

2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Customer-Generator's Generating Facility and loads are interconnected with PG&E's Distribution System, is attached to and made a part of this Agreement. (This description is supplied by Customer-Generator as Appendix A).

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Customer-Generator's electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service agreement ID number used to interconnect the Generating Facility with PG&E's Distribution System:

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

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

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

<sup>1</sup> Additional forms are available on PG&E's website at <http://www.pge.com/gen>.

† Information collected on this form is used in accordance with PG&E's Privacy Policy. The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

2.5 Interconnected Equipment:

List of generating equipment interconnected with, or without, an inverter to PG&E. (For those generators interconnecting without an inverter, write in "N/A" in the right three columns. If an inverter is shared by more than one generator, write "shared" on the same line as that generator under the manufacturer column and do not enter the inverter rating. Attach list of additional equipment, if applicable.)

	Type of Generator (Solar / Wind / Hybrid)	Generator Rating (watts)	Manufacturer of Inverter used with Generator (if Applicable)	Inverter Model Number (if Applicable)	Inverter Rating (watts) <sup>2</sup> (if Applicable)
1					
2					

2.6 Customer-Generator's otherwise-applicable rate schedule under the provisions of Schedule NEM will be \_\_\_\_\_.

2.7 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.

2.8 If the date of the permits allowing the Customer-Generator to commence construction of the Generating Facility is prior to January 1, 2003, please provide the date the permits were issued: \_\_\_\_\_.

2.9 Smart Inverters - For Customer-Generator applications received on or after September 9, 2017, the Customer-Generator certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings **and default settings**, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer-Generator inverter. Customer-Generator further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer-Generator understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer-Generator will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>)

<sup>2</sup> If installing an inverter, the inverter rating equals: (the CEC efficiency for each installed inverter) TIMES (the nameplate rating, in kW, of each inverter). The CEC efficiency is obtained on the CEC website at [http://www.consumerenergycenter.org/erprebate/eligible\\_inverters.html](http://www.consumerenergycenter.org/erprebate/eligible_inverters.html) as listed on the date the application is reviewed. Enter the total of all inverter ratings for multiple inverter installations in the Table above.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

Verification of inverter model's compliance with such requirements shall be provided by the Customer-Generator upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that **meets one or more of the following conditions:**

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer-Generator has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer-Generator provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>3</sup> no later than March 31, 2018, or
- (d) the Customer-Generator provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

**All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21.** Customer-Generator replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### 3. DOCUMENTS INCLUDED AND DEFINED TERMS

3.1 This Agreement includes the following exhibits that are specifically incorporated herein and made a part of this Agreement.

Appendix A Description of Generating Facility and Single-Line Diagram (Supplied by Customer-Generator).

<sup>3</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments,
- 2. A completed signed Interconnection Agreement,
- 3. Evidence of the Customer-Generator final inspection clearance from the governmental authority having jurisdiction over the generating system.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

Appendix B A Copy of PG&E's Agreement for Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527), if applicable (Formed by the Parties).

In addition, PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM, and Customer-Generator's otherwise-applicable rate schedule, available at PG&E's website at [www.pge.com](http://www.pge.com) or by request, are specifically incorporated herein and made part of this Agreement.

3.2 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 PG&E's Electric Rule 21, Section C.

## 4. CUSTOMER BILLING AND PAYMENT

Customer-Generator initially selects Pacific Gas and Electric Company's electric rate schedule referenced in Section 2.6 of this Agreement as its otherwise-applicable rate schedule. Customer-Generator understands that they will be billed according to the otherwise-applicable rate schedule and Schedule NEM.

## 5. TERM AND TERMINATION

5.1 This Agreement shall become effective as of the last date entered in Section 18 below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

- (a) The Parties agree in writing to terminate the Agreement.
- (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service agreement ID number through which Customer-Generator's Generating Facility is interconnected to PG&E is closed or terminated.
- (c) At 12:01 A.M. on the 61<sup>st</sup> day after Customer-Generator or PG&E provides written Notice pursuant to Section 11 below to the other Party of Customer-Generator's or PG&E's intent to terminate this Agreement.

5.2 Customer-Generator may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for one or more of the following reasons:

- (a) A change in applicable rules, tariffs, or regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,

# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

- (b) Customer-Generator fails to take all corrective actions specified in PG&E's Notice that Customer-Generator's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Customer-Generator abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its sole opinion, the Generating Facility is nonoperational and Customer-Generator does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Customer-Generator's apparent abandonment of the Generating Facility affirming Customer-Generator's intent and ability to continue to operate the Generating Facility; or,
  - (d) Customer-Generator's Generating Facility ceases to meet all applicable safety and performance standards set out in Section 6.
- 5.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 5.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

## 6. GENERATING FACILITY REQUIREMENTS

- 6.1 Customer-Generator's Generating Facility must meet 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 Commission regarding safety and reliability including Rule 21.
- 6.2 Customer-Generator shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 6.1, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Customer-Generator shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Customer-Generator's Generating Facility.
- 6.3 Customer-Generator shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided no later than thirty (30) business days following PG&E's receipt of: (1) a completed *Generating Facility Interconnection Application for Non-Export or Certain Net Energy Metered Generating Facilities (between 30 kW and 1,000 kW)* (Form 79-974), including all supporting documents and payments as described in the Application; (2) a completed *Expanded Net Energy Metering (NEM) Supplemental Application* (Form 79-998); (3) a signed and completed *Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 KW or Less, Other Than Facilities of 30 KW or Less* (Form 79-978); and (4) a copy of the Customer-Generator's final inspection clearance from the governmental authority



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.

## 7. INTERCONNECTION FACILITIES

- 7.1 Customer-Generator and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Distribution System, personnel, and other persons from damage or injury, which may be caused by the operation of Customer-Generator's Generating Facility.
- 7.2 Customer-Generator shall be solely responsible for the costs, design, purchase, construction, permitting, operation, and maintenance of the Interconnection Facilities that Customer-Generator owns.
- 7.3 If the provisions of PG&E's Electric Rule 21, or any other tariff or rule approved by the Commission, require PG&E to own and operate a portion of the Interconnection Facilities, Customer-Generator and PG&E shall promptly execute a Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix B.

## 8. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## 9. INSURANCE

Customer-Generator Facility is required to comply with standards and rules set forth in section 6 and provide the following for insurance policies in place.

Customer-Generator shall furnish the required certificates and all endorsements to PG&E prior to Parallel Operation.

The certificate shall provide thirty (30) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.

- 9.1 If at any time during this agreement the Customer-Generator fails to meet the requirements in section 6 and is not self-insured under Section 9.3, the following insurance shall apply:



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

Customer-Generator shall procure and maintain a commercial general liability insurance policy at least as broad as the Insurance Services Office (ISO) commercial general liability coverage "occurrence" form; or, if Customer-Generator is an individual, then liability coverage with respect to premises and use at least as broad as the ISO homeowners' or personal liability Insurance occurrence policy form, or substitute, providing equivalent coverage no less than the following limits, based on generator size:

- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than one hundred (100) kW; or
- (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; or
- (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is twenty (20) kW or less;
- (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is ten (10) kW or less and the Generating Facility is connected to an account receiving residential service from PG&E.

The insurance shall, by endorsement:

- (a) Add PG&E as an additional insured;
- (b) State that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- (c) Contain a severability of interest clause or cross-liability clause.

9.2 If Customer-Generator's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section 9.1 prevents Customer-Generator from obtaining the insurance required in this Section, then upon Customer-Generator's written Notice to PG&E in accordance with Section 11.1, the requirements of Section 9.1 may be waived.

9.3 Customer-Generator may self-insure with approval from PG&E. Evidence of an acceptable plan to self-insure, at least thirty (30) calendar days' prior to operations shall be submitted. Customer-Generators such as state agencies that self-insure under this section are exempt from Section 10.1.

If Customer-Generator ceases to self-insure to the level required hereunder, or if Customer-Generator is unable to provide continuing evidence of Customer-Generator's ability to self-insure, Customer-Generator agrees to immediately obtain the coverage required under agreement.



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

9.4 All required certificates, endorsements or letters of self-insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company
Attention: Electric Grid Interconnection – Contract Management
P.O. Box 770000
Mail Code N7LSan Francisco, CA 94177
Email: EGContractMgmt@pge.com

10. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS

10.1 If Customer-Generator fails to comply with the insurance provisions of this Agreement, Customer-Generator shall, at its own cost, defend, save harmless and indemnify PG&E, its directors, officers, employees, agents, assignees, and successors in interest from and against any and all loss, liability, damage, claim, cost, charge, demand, or expense of any kind or nature (including attorney's fees and other costs of litigation) resulting from the death or injury to any person or damage to any property, including the personnel and property of the utility, to the extent that the utility would have been protected had Customer-Generator complied with all such insurance provisions. The inclusion of this Section 10.1 is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.

10.2 The provisions of this Section 10 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.

11. NOTICES

11.1 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 PG&E: Pacific Gas and Electric Company
Attention: Electric Grid Interconnection – Contract Management
P.O. Box 770000
Mail Code N7L
San Francisco, CA 94177
Email: EGContractMgmt@pge.com

If to Customer-Generator:

Customer-Generator Name: \_\_\_\_\_

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

City: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

- 11.2 A Party may change its address for Notices at any time by providing the other Party notice of the change in accordance with Section 11.1.
- 11.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

## 12. REVIEW OF RECORDS AND DATA

- 12.1 PG&E shall have the right to review and obtain copies of Customer-Generator's operations and maintenance records, logs, or other information such as Generating Facility availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Customer-Generator's Generating Facility or its interconnection to PG&E.
- 12.2 Customer-Generator authorizes to release to the California Energy Commission (CEC) information regarding Customer-Generator'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.

### 12.3

As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including but not limited to confidential customer information, to the CPUC, and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Customer-Generator authorizes PG&E to release any and all information contained in its application, and addendum if applicable, for interconnection to the State Entities identified in this Section 12.3 without further notification or consent.

## 13. ASSIGNMENT

Customer-Generator shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Customer-Generator makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Customer-Generator's assignment of this Agreement.

## 14. NON-WAIVER

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.



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING OF SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF 1,000  
KW OR LESS, OTHER THAN FACILITIES OF  
30 KW OR LESS

---

**15. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E's TARIFF SCHEDULES AND RULES**

15.1 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.

15.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

- 15.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.
15.4 Notwithstanding any other provisions of this Agreement, PG&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.

16. AMENDMENT AND MODIFICATION

This Agreement can only be amended or modified by a writing signed by both Parties.

17. 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.

18. SIGNATURES

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

CUSTOMER-GENERATOR'S NAME PACIFIC GAS AND ELECTRIC COMPANY
By: \_\_\_\_\_ By: \_\_\_\_\_
Name: \_\_\_\_\_ Name: \_\_\_\_\_
Title: \_\_\_\_\_ Title: Manager,
Electric Grid Interconnection
Date: \_\_\_\_\_ Date: \_\_\_\_\_



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING OF SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF 1,000  
kW OR LESS, OTHER THAN FACILITIES OF  
30 kW OR LESS

---

APPENDIX A  
DESCRIPTION OF GENERATING FACILITY  
AND SINGLE-LINE DIAGRAM  
(Provided by Customer-Generator)



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING OF SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF 1,000  
kW OR LESS, OTHER THAN FACILITIES OF  
30 kW OR LESS

---

APPENDIX B  
(If Applicable)

Any Rule 2 or Rule 21 Agreements for the Installation or Allocation of  
Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to  
Perform Any Tariff Related Work (62-4527)  
(Formed between the Parties)



**Electric Sample Form No. 79-978-02**

Sheet 1

Interconnection Agreement for Net Energy Metering (NEM2) of Solar or  
Wind Electric Generating Facilities of 1,000 Kilowatts or Less, Other than Facilities of 30 Kilowatts or  
Less

**Please Refer to Attached  
Sample Form**

*Advice* 6273-E-A  
*Decision* D21-06-026

*Issued by*  
**Robert S. Kenney**  
*Vice President, Regulatory Affairs*

*Submitted* August 17, 2021  
*Effective* \_\_\_\_\_  
*Resolution* \_\_\_\_\_



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

This *Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities of 1,000 kW or Less, Other Than Facilities of 30 kW or Less* (Agreement)<sup>1</sup> is entered into by and between \_\_\_\_\_ (Customer-Generator), and Pacific Gas and Electric Company (PG&E), a California Corporation. Customer-Generator and PG&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 Customer-Generator to interconnect and operate a Generating Facility in parallel with PG&E’s Electric System to serve the electrical loads connected to the electric service agreement ID number that PG&E uses to interconnect Customer-Generator’s Generating Facility. Customer-Generator’s Generating Facility is intended primarily to offset part or all of the Customer-Generator’s own electrical requirements. Consistent with, and in order to effectuate, the provisions of Sections 2827, 2827.7 and 2827.8 of the California Public Utilities Code and PG&E’s electric rate Schedule NEM2 (NEM2), Parties enter into this Agreement. This Agreement applies to the Customer-Generator’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 AND DESCRIPTION OF CUSTOMER-GENERATOR’S GENERATING FACILITY AND DESIGNATION OF OTHERWISE-APPLICABLE RATE SCHEDULE

2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Customer-Generator’s Generating Facility and loads are interconnected with PG&E’s Electric System, is attached to and made a part of this Agreement. (This description is supplied by Customer-Generator as Appendix A).

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).

2.3 Customer-Generator’s electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service agreement ID number used to interconnect the Generating Facility with PG&E’s Electric System:

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

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

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

<sup>1</sup> Additional forms are available on PG&E’s website at <http://www.pge.com/gen>.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

- 2.5 The Gross Nameplate Rating of the Generating Facility is: \_\_\_\_\_ kW.
- 2.6 The Net Nameplate Rating of the Generating Facility is \_\_\_\_\_ kW.
- 2.7 Customer-Generator's otherwise-applicable rate schedule as of the execution of this Agreement \_\_\_\_\_.
- 2.8 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.
- 2.9 Smart Inverters - For Customer-Generator applications received on or after September 9, 2017, the Customer-Generator certifies that their inverter-based Generating Facilities fully comply with Section Hh of Rule 21, including configuration of protective settings **and default settings**, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Customer-Generator's inverter. Customer-Generator further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer-Generator understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer-Generator will need to cease operation of generating facility until verification is confirmed by Distribution Provider.

(Solar Inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)

Verification of compliance with such requirements shall be provided by the Customer-Generator upon request by PG&E in accordance with PG&E's Electric Rule 21.

An "existing inverter" is defined as an inverter that is a component of an existing Generating Facility that meets one or more of the following conditions:

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer-Generator has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer-Generator provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>2</sup> no later than March 31, 2018, or

---

<sup>2</sup> A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments,
- 2. A completed signed Interconnection Agreement,
- 3. Evidence of the Customer-Generator final inspection clearance from the governmental authority having jurisdiction over the generating system.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

- (d) the Customer-Generator provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

**All “existing inverters” are not required to be Smart Inverters and are only subject to Section H of Rule 21.** Customer-Generator replacing an “existing inverter” certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged);  
or
- (ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

### 3. DOCUMENTS INCLUDED AND DEFINED TERMS

- 3.1 This Agreement includes the following exhibits that are specifically incorporated herein and made a part of this Agreement.

Appendix A Description of Generating Facility and Single-Line Diagram (Supplied by Customer-Generator).

Appendix B A Copy of *PG&E’s Agreement for Installation or Allocation of Special Facilities* (Forms 79-255, 79-280, 79-702) or *Agreements to Perform Any Tariff Related Work (62-4527)*, if applicable (Formed by the Parties).

Appendix C NEM2 Load Aggregation Customer-Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel

In addition, PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM2, and Customer-Generator’s otherwise-applicable rate schedule, available at PG&E’s website at [www.pge.com](http://www.pge.com) or by request, are specifically incorporated herein and made part of this Agreement.

- 3.2 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 PG&E’s Electric Rule 21, Section C.

### 4. CUSTOMER BILLING AND PAYMENT

Customer-Generator initially selects Pacific Gas and Electric Company’s electric rate schedule referenced in Section 2.6 of this Agreement as its otherwise-applicable rate schedule. Customer-Generator understands that they will be billed according to the otherwise-applicable rate schedule and Schedule NEM2.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

## 5. TERM AND TERMINATION

- 5.1 This Agreement shall become effective as of the last date entered in Section 18 below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:
- (a) The Parties agree in writing to terminate the Agreement.
  - (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service agreement ID number through which Customer-Generator's Generating Facility is interconnected to PG&E is closed or terminated.
  - (c) At 12:01 A.M. on the 61<sup>st</sup> day after Customer-Generator or PG&E provides written Notice pursuant to Section 11 below to the other Party of Customer-Generator's or PG&E's intent to terminate this Agreement.
- 5.2 Customer-Generator may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for one or more of the following reasons:
- (a) A change in applicable rules, tariffs, or regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
  - (b) Customer-Generator fails to take all corrective actions specified in PG&E's Notice that Customer-Generator's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Customer-Generator abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its sole opinion, the Generating Facility is nonoperational and Customer-Generator does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Customer-Generator's apparent abandonment of the Generating Facility affirming Customer-Generator's intent and ability to continue to operate the Generating Facility; or,
  - (d) Customer-Generator's Generating Facility ceases to meet all applicable safety and performance standards set out in Section 6.
- 5.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 5.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 KW OR LESS, OTHER THAN FACILITIES OF 30 KW OR LESS

---

## 6. GENERATING FACILITY REQUIREMENTS

- 6.1 Customer-Generator's Generating Facility must meet 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 Commission regarding safety and reliability including Rule 21.
- 6.2 Customer-Generator shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 6.1, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Customer-Generator shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Customer-Generator's Generating Facility.
- 6.3 Customer-Generator shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided no later than thirty (30) business days following PG&E's receipt of: (1) a completed *Generating Facility Interconnection Application for Non-Export or Certain Net Energy Metered Generating Facilities* (Form 79-974-02), including all supporting documents and payments as described in the Application; (2) a signed and completed *Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities, Other Than Facilities of 30 KW or Less* (Form 79-978-02); and (3) a copy of the Customer-Generator's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.
- 6.4 In order to promote the safety and reliability of the customer Generating Facility, the Customer-Generator certifies that as a part of this interconnection request for NEM2, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.
- 6.5 Customer-Generator certifies as a part of this interconnection request for NEM2 that
- (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
  - (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.
- 6.6 Customers on this tariff must pay for the interconnection of their Generation Facilities as provided in Electric Rule 21, pursuant to Decision 16-01-044.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

---

## 7. INTERCONNECTION FACILITIES

- 7.1 Customer-Generator and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Electric System, personnel, and other persons from damage or injury, which may be caused by the operation of Customer-Generator's Generating Facility.
- 7.2 Customer-Generator shall be solely responsible for the costs, design, purchase, construction, permitting, operation, and maintenance of the Interconnection Facilities that Customer-Generator owns.
- 7.3 If the provisions of PG&E's Electric Rule 21, or any other tariff or rule approved by the Commission, require PG&E to own and operate a portion of the Interconnection Facilities, Customer-Generator and PG&E shall promptly execute a Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix B.

## 8. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

## 9. INSURANCE

Customer-Generator Facility is required to comply with standards and rules set forth in Section 6 and provide the following for insurance policies in place.

Customer-Generator shall furnish the required certificates and all endorsements to PG&E prior to Parallel Operation.

The certificate shall provide thirty (30) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.

- 9.1 If at any time during this agreement the Customer-Generator fails to meet the requirements in Section 6 and is not self-insured under Section 9.3, the following insurance shall apply:

Customer-Generator shall procure and maintain a commercial general liability insurance policy at least as broad as the Insurance Services Office (ISO) commercial general liability coverage "occurrence" form; or, if Customer-Generator is an individual, then liability coverage with respect to premises and use at least as broad as the ISO homeowners' or personal liability Insurance occurrence policy form, or substitute, providing equivalent coverage no less than the following limits, based on generator size:

# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than one hundred (100) kW; or
- (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; or
- (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is twenty (20) kW or less;
- (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is ten (10) kW or less and the Generating Facility is connected to an account receiving residential service from PG&E.

The insurance shall, by endorsement:

- (a) Add PG&E as an additional insured;
- (b) State that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- (c) Contain a severability of interest clause or cross-liability clause.

9.2 If Customer-Generator's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section 9.1 prevents Customer-Generator from obtaining the insurance required in this Section, then upon Customer-Generator's written Notice to PG&E in accordance with Section 11.1, the requirements of Section 9.1 may be waived.

9.3 Customer-Generator may self-insure with approval from PG&E. Evidence of an acceptable plan to self-insure, at least thirty (30) calendar days' prior to operations shall be submitted. Customer-Generators such as state agencies that self-insure under this section are exempt from Section 10.1.

If Customer-Generator ceases to self-insure to the level required hereunder, or if Customer-Generator is unable to provide continuing evidence of Customer-Generator's ability to self-insure, Customer-Generator agrees to immediately obtain the coverage required under agreement.

9.4 All required certificates, endorsements or letters of self-insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection – Contract Management  
P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: [EGIContractMgmt@pge.com](mailto:EGIContractMgmt@pge.com)



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

10. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS

- 10.1 If Customer-Generator fails to comply with the insurance provisions of this Agreement, Customer-Generator shall, at its own cost, defend, save harmless and indemnify PG&E, its directors, officers, employees, agents, assignees, and successors in interest from and against any and all loss, liability, damage, claim, cost, charge, demand, or expense of any kind or nature (including attorney's fees and other costs of litigation) resulting from the death or injury to any person or damage to any property, including the personnel and property of the utility, to the extent that the utility would have been protected had Customer-Generator complied with all such insurance provisions. The inclusion of this Section 10.1 is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.
10.2 The provisions of this Section 10 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.

11. NOTICES

- 11.1 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 PG&E: Pacific Gas and Electric Company
Attention: Electric Grid Interconnection – Contract Management
P.O. Box 770000
Mail Code N7L
San Francisco, CA 94177
Email: EGContractMgmt@pge.com

If to Customer-Generator:

Customer-Generator Name: \_\_\_\_\_
Address: \_\_\_\_\_
City: \_\_\_\_\_
Phone: (\_\_\_\_) \_\_\_\_\_
FAX: (\_\_\_\_) \_\_\_\_\_

- 11.2 A Party may change its address for Notices at any time by providing the other Party notice of the change in accordance with Section 11.1.
11.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.



# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

## 12. REVIEW OF RECORDS AND DATA

- 12.1 PG&E shall have the right to review and obtain copies of Customer-Generator's operations and maintenance records, logs, or other information such as Generating Facility availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Customer-Generator's Generating Facility or its interconnection to PG&E.
- 12.2 Customer-Generator authorizes to release to the California Energy Commission (CEC) information regarding Customer-Generator'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.

### 12.3

As a condition of interconnection, pursuant to California Public Utilities Commission (CPUC) Decisions 14-11-001, 20-08-001, and 21-06-026, PG&E is required to provide certain data, including, but not limited to, confidential customer information, to the CPUC and its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation (the "State Entities"). Customer-Generator authorizes PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities without further notification or consent.

## 13. ASSIGNMENT

Customer-Generator shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Customer-Generator makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Customer-Generator's assignment of this Agreement.

## 14. NON-WAIVER

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.

## 15. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E's TARIFF SCHEDULES AND RULES

- 15.1 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.
- 15.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES ~~FACILITIES~~ OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

- 15.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.
- 15.4 Notwithstanding any other provisions of this Agreement, PG&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.

**16. AMENDMENT AND MODIFICATION**

This Agreement can only be amended or modified by a writing signed by both Parties.

**17. 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.

**18. SIGNATURES**

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

<i>(Customer Generator's Name)</i>	<b>PACIFIC GAS AND ELECTRIC COMPANY</b>
<i>(Signature)</i>	<i>(Signature)</i>
<i>(Print Name)</i>	<i>(Print Name)</i>
<i>(Title)</i>	<i>(Title)</i>
<i>(Date)</i>	<i>(Date)</i>



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING (NEM2) OF SOLAR OR  
WIND ELECTRIC GENERATING FACILITIES OF  
1,000 kW OR LESS, OTHER THAN FACILITIES  
OF 30 kW OR LESS

---

APPENDIX A

DESCRIPTION OF GENERATING FACILITY  
AND SINGLE-LINE DIAGRAM

(Provided by Customer-Generator)



INTERCONNECTION AGREEMENT FOR NET  
ENERGY METERING (NEM2) OF SOLAR OR  
WIND ELECTRIC GENERATING FACILITIES OF  
1,000 kW OR LESS, OTHER THAN FACILITIES  
OF 30 kW OR LESS

---

APPENDIX B (If Applicable)

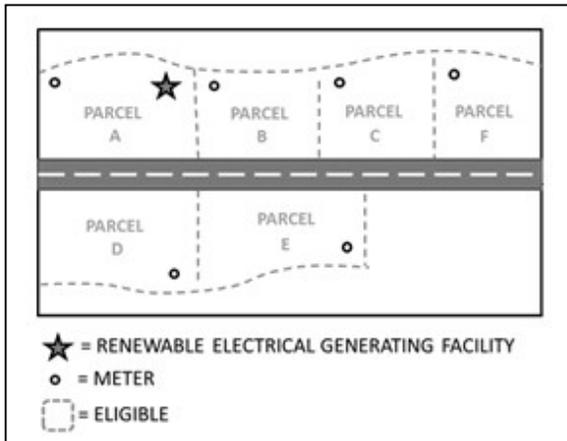
Any Rule 2 or Rule 21 Agreements for the Installation or  
Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or  
Agreements to Perform Any Tariff Related Work (62-4527)  
(Formed between the Parties)

# INTERCONNECTION AGREEMENT FOR NET ENERGY METERING (NEM2) OF SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 1,000 kW OR LESS, OTHER THAN FACILITIES OF 30 kW OR LESS

## Appendix C NEM LOAD AGGREGATION APPENDIX (If Applicable) Customer-Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel

In accordance with Schedule NEM2, I, Customer-Generator represent and warrant under penalty of perjury that:

- 1) The total annual output in kWh of the generator is less than or equal to 100% of the annual aggregated electrical load in kWh of the meters within the arrangement, including the load on the generating account itself (before being offset by the generator), and including any estimated future additional load; and
- 2) Each of the aggregated account meters associated with this NEM2 generator account are located either:
  - (i) on the property where the renewable electrical generation facility is located, or
  - (ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator.



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

- 3) PG&E reserves the right to request a parcel map to confirm the property meets the requirements of 2) above; and
- 4) Customer-Generator agrees to notify PG&E if there is any change of status that makes any of the participating meters ineligible for meter aggregation to ensure that only eligible meters are participating; PG&E will require an updated Appendix and Declaration form; and
- 5) Upon request by PG&E, I agree to provide documentation that all aggregated meters meet the requirements of Rate Schedule NEM2 Special Condition 6 including but not limited to parcel maps and ownership records.

\_\_\_\_\_ Customer Generator's Name

\_\_\_\_\_ Signature

\_\_\_\_\_ Date

\_\_\_\_\_ Type/Print Name

\_\_\_\_\_ Title

**PG&E Gas and Electric  
Advice Submittal List  
General Order 96-B, Section IV**

AT&T  
Albion Power Company

Alta Power Group, LLC  
Anderson & Poole

Atlas ReFuel  
BART

Barkovich & Yap, Inc.  
California Cotton Ginners & Growers Assn  
California Energy Commission

California Hub for Energy Efficiency  
Financing

California Alternative Energy and  
Advanced Transportation Financing  
Authority  
California Public Utilities Commission  
Calpine

Cameron-Daniel, P.C.  
Casner, Steve  
Cenergy Power  
Center for Biological Diversity

Chevron Pipeline and Power  
City of Palo Alto

City of San Jose  
Clean Power Research  
Coast Economic Consulting  
Commercial Energy  
Crossborder Energy  
Crown Road Energy, LLC  
Davis Wright Tremaine LLP  
Day Carter Murphy

Dept of General Services  
Don Pickett & Associates, Inc.  
Douglass & Liddell

East Bay Community Energy Ellison  
Schneider & Harris LLP Energy  
Management Service  
Engineers and Scientists of California

GenOn Energy, Inc.  
Goodin, MacBride, Squeri, Schlotz &  
Ritchie

Green Power Institute  
Hanna & Morton  
ICF

IGS Energy  
International Power Technology  
Intestate Gas Services, Inc.  
Kelly Group  
Ken Bohn Consulting  
Keyes & Fox LLP  
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated  
Waste Management Task Force  
MRW & Associates  
Manatt Phelps Phillips  
Marin Energy Authority  
McKenzie & Associates

Modesto Irrigation District  
NLine Energy, Inc.  
NRG Solar

OnGrid Solar  
Pacific Gas and Electric Company  
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority  
Regulatory & Cogeneration Service, Inc.  
SCD Energy Solutions  
San Diego Gas & Electric Company

SPURR  
San Francisco Water Power and Sewer  
Sempra Utilities

Sierra Telephone Company, Inc.  
Southern California Edison Company  
Southern California Gas Company  
Spark Energy  
Sun Light & Power  
Sunshine Design  
Tecogen, Inc.  
TerraVerde Renewable Partners  
Tiger Natural Gas, Inc.

TransCanada  
Utility Cost Management  
Utility Power Solutions  
Water and Energy Consulting Wellhead  
Electric Company  
Western Manufactured Housing  
Communities Association (WMA)  
Yep Energy