

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE



April 15, 2021

Advice Letter 4925-G/5920-E AL 4925-G-A/5920-E-A AL 4925-G-B/5920-E-B

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: Clean-Up of Gas and Electric Tariffs.

Dear Mr. Jacobson:

Advice Letter 4925-G/5920-E AL 4925-G-A/5920-E-A AL 4925-G-B/5920-E-B is effective as of August 18, 2020.

Sincerely,

A handwritten signature in dark ink that reads "Edward Randolph".

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



January 8, 2021

Advice 4295-G-B/5920-E-B

(Pacific Gas and Electric Company ID U 39 M)

Public Utilities Commission of the State of California

Subject: Second Supplemental: Clean-Up of Gas and Electric Tariffs

Pacific Gas and Electric Company (PG&E) is submitting this second supplemental to Advice 4295-G/5920-E to correct additional typographical errors. The affected tariff sheets are listed on the enclosed Attachment 1. This supplemental advice letter supplements the original advice letter (4295-G/5920-E) and replaces the first supplemental advice letter (4295-G-A/5920-E-A) in its entirety.

Purpose

On August 18, 2020, PG&E submitted Advice 4295-G/5920-E - *Clean-Up of Gas and Electric Tariffs*, which identified several minor issues within our tariffs that needed modification but were not previously submitted in an advice letter. PG&E received a suspension notice for Advice 4295-G/5920-E on September 4, 2020, and the advice letter is still pending Energy Division staff review.

On November 25, 2020, PG&E submitted Advice 4295-G-A/5920-E-A – *Supplemental: Clean-Up of Gas and Electric Tariffs*, to replace Gas and Electric Form 79-1186 from the original advice letter.

PG&E, with the assistance of the Energy Division, has identified several minor typographical errors that were submitted with Advice 4295-G/5920-E. In addition, PG&E inadvertently submitted the incorrect version of Form 79-1186 – *Customer Information Service Request For Share My Data (CISR-SMD)*, when submitting Advice 4295-G-A/5920-E-A. PG&E used a version of the form that was submitted with Advice 3963-G-A/5229-E-A on October 18, 2018, instead of the version that was submitted as a substitute sheet to Advice 3963-G-A/5229-E-A on January 18, 2019. Advice 3963-G-A/5229-E-A was approved by the Commission with an effective date of February 14, 2019.

With this advice letter, PG&E is amending various tariffs to correct the typographical errors that were submitted with Advice 4295-G/5920-E. Furthermore, PG&E is

resubmitting Form 79-1186, and replacing Advice 4295-G-A/5920-E-A in its entirety and using it as the based document for correcting the web link to Rule 25.

The tariff modifications being made in this supplemental clean-up advice letter are either non-substantial editorial changes to the text of a tariff or revisions in compliance with specific requirements of a statute or Commission order.

Tariff Revisions

A matrix describing the supplemental tariff revisions is included as Appendix A to this advice letter. The affected tariff sheets are listed on the enclosed Attachment 1. For convenience of the reader, PG&E has included redline revisions in Attachment 2. Where Sample Forms have been revised, the entire Sample Form is included in Attachment 1 (clean version), but the redline version in Attachment 2 only includes the pages where the modification has occurred, and excludes pages of the form where only the page numbering, the advice letter number and/or date has been updated within the footer of the page to reflect this advice letter.

The submittal will not increase any current rate or charge, cause the withdrawal of service, or conflict with any rate schedule or rule.

Protests

*****Due to the COVID-19 pandemic and the shelter at home orders, 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 and 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 January 28, 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, 4th 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:

Erik Jacobson
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

PG&E requests that this Tier 1 advice letter become effective concurrent with original Advice Letter 4295-G/5920-E, which is August 18, 2020.

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. 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/

Erik Jacobson
Director, Regulatory Relations

Attachments

Appendix A - Clean-Up Modification and Cancellations of Tariffs

Attachment 1 - Tariffs

Attachment 2 - Redlined Tariffs

Service List: GO 96-B

Advice 4295-G-B/5920-E-B**Appendix A**

The tariff modifications being made are either non-substantial editorial changes to the text of a tariff, or revisions in compliance with specific requirements of a statute or Commission order.

Appendix A describes in detail the action PG&E is requesting for each tariff that is included in this advice letter.

Advice 4295-G-B/5920-E-B

Appendix A**Supplemental Clean-Up Modification and Cancellations of Tariffs**

#	Tariff	Action or Location	Modification/Additional Information
1.	Electric Sample Form 79-1069- Generating Facility Interconnection Agreement (Multiple Tariff)	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct page numbering in footer. - Insert Advice Letter number in footer.
2.	Electric Sample Form 79-1102 - Section 399.20 Power Purchase Agreement	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct typographical error.
3.	Electric Sample Form 79-1103 - Small Renewable Generator Power Purchase Agreement	Update web address	Updating or replacing web address that is hard coded onto the tariff sheet.
4.	Electric Sample Form 79-1109 – Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct typographical error.
5.	Electric Sample Form 79-1124 – Eligible Low-Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 Megawatt or Less	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct typographical error.
6.	Electric Sample Form 79-1124-02 – Eligible Low-Income Development Virtual Net Energy Metering (NEM2VMSH) Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 Megawatt or Less	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct typographical error.

Advice 4295-G-B/5920-E-B

Appendix A**Supplemental Clean-Up Modification and Cancellations of Tariffs**

#	Tariff	Action or Location	Modification/Additional Information
7.	Electric Sample Form 79-1125 - <i>NEM / NEMV / NEMVMASH Inspection Report</i>	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet.* - Correct spelling and typographical error.
8.	Electric Sample Form 79-1131 - <i>NEMV Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less</i>	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct typographical error.
9.	Electric Sample Form 79-1131-02 - <i>NEM2V Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less</i>	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct typographical error.
10.	Electric Sample Form 79-1137 - <i>Interconnection Agreement for Net Energy Metering for a Renewable Electricity Generation Facility of 1,000 Kilowatts or Less, Except Solar or Wind</i>	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct page formatting.
11.	Electric Sample Form 79-1142 - <i>NEMV Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less</i>	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Adjust page numbering and correct typographical error.
12.	Electric Sample Form 79-1145 - <i>Rule 21 Exporting Generator Interconnection Request</i>	Update web address	- Updating or replacing web address that is hard coded onto the tariff sheet. - Correct typographical error.
13.	Electric Sample Form 79-1151A-02 <i>- Agreement And Customer Authorization Net Energy Metering (NEM2) Interconnection For Solar And/or Wind Electric Generating Facilities Of 30 Kilowatts Or Less</i>	Page 3 Update web address	- Correct section reference from Part IV, Section H to Part IV, Section E. - Updating or replacing web address that is hard coded onto the tariff sheet.* - Correct typographical error.



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 U39M)

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) #: 4295-G-B/5920-E-B

Tier Designation: 1

Subject of AL: Second Supplemental: Clean-Up of Gas and Electric Tariffs

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 #:

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: 8/18/20

No. of tariff sheets: 29

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 proposed¹: N/A

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

¹Discuss 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

Name: Erik Jacobson, 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

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

Clear Form

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
36747-G	Gas Sample Form No. 79-1186 Customer Information Service Request For Share My Data (CISR-SMD) Sheet 1	36636-G
36748-G	GAS TABLE OF CONTENTS Sheet 1	36733-G
36749-G	GAS TABLE OF CONTENTS Sheet 12	36638-G



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

Revised
Cancelling Revised

Cal. P.U.C. Sheet No. 36747-G
Cal. P.U.C. Sheet No. 36636-G

Gas Sample Form No. 79-1186
Customer Information Service
Request For Share My Data (CISR-SMD)

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 4295-G-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted January 8, 2021
Effective August 18, 2020
Resolution

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ FIRST THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY

This form allows you to voluntarily create a new Authorization to grant a Third Party of your choice access to your PG&E personal, energy usage, energy billing and other program data about you via PG&E's Share My Data (SMD) platform or to modify or revoke an existing Authorization you currently have on the Share My Data platform. This form should be completed by the main Customer Account Holder (name on the PG&E bill).

Pacific Gas and Electric Company's (PG&E's) Gas and Electric Rules 27 and its corresponding privacy policies, which can be found at www.pge.com/about/company/privacy/customer, do not allow for the disclosure of customers' personal information, such as your name, address, phone number, or electric account and billing information, to third parties for purposes other than providing utility services to you or as otherwise required by law, unless you expressly authorize us to do so. This form allows you to exercise your right to disclose personal and energy-related information about you to a Third Party under PG&E's Electric Rule 25 which can be found at https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_RULES_25.pdf. This form may be used to authorize the release of electric-related information for Bundled, Community Choice Aggregation (CCA), Direct Access (DA) customers, and gas-related information for Core End-Use and Noncore End-Use customers. Once you authorize access by a Third Party to personal and energy-related information about you, you are responsible for and agree that you are solely responsible for ensuring that the Third Party safeguards this information from further disclosure without your consent.

If you want to provide data to a Demand Response Provider (DRP), please use "Customer Information Service Request For Demand Response Provider" (CISR-DRP), Form 79-1152.

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, including, without limitation, revisions to the types of customer information to be released.

STEP 1: AUTHORIZATION DETAILS

- ***Please select the action you wish to take:***

- ☐ **CREATE A NEW AUTHORIZATION** – Please Complete [SECTION 1](#)
- ☐ **MODIFY AN EXISTING AUTHORIZATION** – Please Complete [SECTION 2](#)
- ☐ **REVOKE AN EXISTING AUTHORIZATION** – Please Complete [SECTION 3](#)

- ***Your Contact Information:***

First Name: _____ Last Name: _____

Mailing Address: _____

Email Address (Optional): _____

(The email address you provide here will be used for all transactional emails relating to this Authorization.)

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

[SECTION 1: CREATE A NEW AUTHORIZATION]

• **Third Party:**

Please provide the name of the Third Party you authorize to access your data via the Share My Data platform. You may authorize only those third parties who have registered with PG&E to use the Share My Data platform. This form will not be processed if you list a Third Party who has not registered to use the Share My Data platform.

Name of Third Party: _____

(PLEASE NOTE: PG&E has not conducted vendor security reviews on the Share My Data registered Third Parties. Please be sure to read Terms and Conditions offered by the Third Party prior to authorizing the Third Party to access your data.)

• **Data Elements:**

Please select the data elements you wish to authorize (you may select more than one data element):

- ☐ **Basic Information** (Includes name and service address)
- ☐ **Billing Information** (Includes up to 48 months historical, current, and ongoing billing records, billing and meter read dates, rate schedule, and voltage class.)
- ☐ **Account Information** (Includes account number(s), service agreement number(s), and service start date.)
- ☐ **Usage Information** (Includes up to 48 months of historical, current, and ongoing electric and/or gas usage data used for bill calculations, interval usage, and interval time-of-use indicators.)
- ☐ **PG&E Program Enrollment Information** (Includes current and ongoing PG&E Demand Response program name and status, as well as the name and status of other PG&E programs in which you are enrolled.)

• **Authorization Period:**

The Third Party will automatically have access to up to 48 months of historical data from the date the Authorization is created.

Please select the period of time you wish to authorize the Third Party, listed above, to have ongoing access to the data elements selected above:

☐ Ongoing Access Until _____ or until I revoke this Authorization.
[Date]

OR

☐ Indefinitely until I revoke this Authorization.

In all cases, the Authorization for a Service Agreement will be automatically revoked when the Service Agreement is closed by the Customer.

• **Service Agreement IDs to be Authorized:**

Please list the Account Number(s) and Service Agreement ID(s) you, as the Customer Account Holder, are authorizing the specified Third Party to access via the Share My Data platform:

Account Number	Service Agreement ID

(For more than three Service Agreement IDs please attach a separate file)

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

[SECTION 2: MODIFY AN EXISTING AUTHORIZATION]

- Subscription ID:**

Please provide the Subscription ID associated to the Authorization you wish to modify. Your Subscription ID can be found in the confirmation email sent to you when the Authorization was initially created. If you cannot find your Subscription ID, please contact PG&E Customer Service at (800) 743-5000 for assistance.

Subscription ID: _____

- Authorization Period:**

☐ Ongoing Access Until _____ or until I revoke this Authorization.
[Date]

OR

☐ Indefinitely until I revoke this Authorization.

In all cases, the Authorization for a Service Agreement will be automatically revoked when the Service Agreement is closed by the Customer.

- Service Agreement IDs to be added and/or removed from Authorization by the Customer Account Holder**

If you would like to add or remove Service Agreement IDs from this Authorization, please specify them below.

Account Number	Service Agreement ID	Add	Remove
		☐	☐
		☐	☐
		☐	☐

(For more than three Service Agreement IDs please attach a separate file)

[SECTION 3: REVOKE AN EXISTING AUTHORIZATION]

- Subscription ID:**

Please provide the Subscription ID associated to the Authorization you wish to revoke. Your Subscription ID can be found in the confirmation email sent to you when the Authorization was initially created. If you cannot find your Subscription ID, please contact PG&E Customer Service at (800) 743-5000 for assistance.

Subscription ID: _____

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

STEP 2: AGREE TO SHARE MY DATA TERMS AND CONDITIONS

Important information: Please read carefully. This is a legally binding agreement.

- **Create a New Authorization or Modify an Existing Authorization:**

I, (First and Last Name of Customer of Record), _____, authorize the designated Third Party to access the Customer of Record Account Holder's personal energy data in accordance with these terms and conditions for the designated Service Agreement(s) as indicated in Section 1 for new Authorizations or Section 2 for modifying an existing Authorization. I understand PG&E reserves the right to verify any authorization request submitted before releasing information on my behalf.

I declare that I am authorized to execute this Authorization manually or electronically on behalf of the Customer of Record Account Holder, and that I have authority to bind the Customer of Record Account Holder. I hereby release, hold harmless, and indemnify PG&E from any liability, claims, demands, and causes of action, damages, or expenses resulting from: (1) any release of information to the Third Party pursuant to this Authorization; (2) the unauthorized use of this information by the Third Party or any other third party; and (3) any actions taken by the Third Party pursuant to this Authorization. I understand that I may revoke this Authorization at any time by submitting a newly completed copy of this form with the Revocation check box selected. I hereby indicate my consent to execute and submit this Authorization electronically.

Signature of Customer

Date

- **Revoke an Existing Authorization:**

I, (First and Last Name of Customer of Record), _____, revoke the Authorization of the designated Third Party to access personal data about me from the designated Service Agreement(s).

I declare that I am authorized to execute this Revocation manually or electronically on behalf of the Customer of Record Account Holder, and that I have authority to bind the Customer of Record Account Holder. I hereby release, hold harmless, and indemnify PG&E from any liability, claims, demands, causes of action, damages, or expenses resulting from: (1) any negligent conduct relating to this Revocation; (2) any refusal to release information to the Third Party pursuant to this Revocation; and (3) any conduct by the Third Party in connection with this Revocation. I hereby indicate my consent to execute and submit this Revocation electronically.

Signature of Customer

Date

STEP 3: SUBMIT FORM VIA EMAIL OR MAIL

Forms can be emailed to:
sharemydata@pge.com

Forms can be mailed to:
Pacific Gas and Electric Company
Share My Data
245 Market Street, N3E
San Francisco, CA 94105



GAS TABLE OF CONTENTS

Sheet 1

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Preliminary Statements, Rules	36513-G	
Rules, Maps, Contracts and Deviations	36646-G	
Sample Forms	36186,36187,36188,36189, 36749-G	(T)

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Sheet 12

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79-1091	G-ESISP Service Relocation Agreement	34432-G
	Sample Forms Miscellaneous	
62-0562	Gas & Electric Facilities Transfer Agreement - Declaration.....	30755-G
62-0579	Design / Construction Change Order Request	29981-G
62-4501	Abolving Service Agreement	29989-G
62-4527	Agreement to Perform Tariff Schedule Related Work	35736-G
62-4778	Cancellation of Contract	31700-G
79-861	Electronic Data Interchange (EDI) - Trading Partner Agreement	30761-G
79-936	Deed of Conveyance	34446-G
79-937	Assignment Agreement	34447-G
79-1031	Community Choice Aggregator Non-Disclosure Agreement	30437*-G
79-1039	Rate Schedule Selection Customer Agreement	34428-G
79-1040	Non-Disclosure and Use of Information Agreement	30765-G
79-1041	Notice of Bill Guarantee Termination.....	30033-G
79-1042	APS/Auto Pay Customer Application.....	23185-G
79-1043	Irrevocable Standby Letter of Credit.....	30034-G
79-1095	Authorization to Receive Customer Information or Act Upon a Customer's Behalf	34433*-G
79-1096	Authorization to Receive Customer Information or Act Upon a Customer's Behalf (Spanish)	34434-G
79-1097	Request Change of Mailing Address to a Third Party Change of Address	34435-G
79-1099	Property Manager Authorization to Receive Owner Information or Act on an Owner's Behalf	30590-G
79-1104	Billing Calculation Service Agreement.....	30768-G
79-1118	General Off-Bill and On-Bill Financing Loan Agreement	34945-G
79-1126	Off-Bill and On-Bill Financing Loan Agreement for Self-Installed Projects	34946-G
79-1128	Affidavit in Support of Customer Claim as Qualifying as a Small Business Customer Under Government Code Section 14837	34878-G
79-1139	Notice of Payment Default.....	30043-G
79-1143	California State Government Customers On-Bill Financing Loan Agreement	30320-G
79-1147	Authorization or Revocation of Authorization to Receive Customer Usage Information ...	34436-G
79-1156	Authorization To Add Loan Charges To Utility Bill (Residential)	32226-G
79-1157	Authorization To Add Loan Charges To Utility Bill (Non-Residential)	32227-G
79-1173	Energy Efficiency Financing Pilot Programs Authorization or Revocation of Authorization to Release Customer Information	34439-G
79-1186	Share My Data Customer Authorization or Revocation of Authorization Form	36747-G
79-1194	Local Agency And District Customers On-Bill Financing Loan Agreement.....	34947-G
79-1205	Gift Payment Form	35989-G

(T)

(Continued)

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
48270-E	Electric Sample Form No. 79-1069 Generating Facility Interconnection Agreement (Multiple Tariff) Sheet 1	41124-E
48271-E	Electric Sample Form No. 79-1102 Section 399.20 Power Purchase Agreement Sheet 1	32140-E
48272-E	Electric Sample Form No. 79-1103 Small Renewable Generator Power Purchase Agreement Sheet 1	32141-E
48273-E	Electric Sample Form No. 79-1109 Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less Sheet 1	34805-E
48274-E	Electric Sample Form 79-1124 Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 Megawatt or Less Sheet 1	41126-E
48275-E	Electric Sample Form No. 79-1124-02 Eligible Low Income Development Virtual Net Energy Metering (NEM2VMSH) Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 Megawatt or Less Sheet 1	41127-E
48276-E	Electric Sample Form 79-1125 NEM / NEMV / NEMVMASH Inspection Report Sheet 1	33682-E
48277-E	ELECTRIC SAMPLE FORM 79-1131 NEMV APPLICATION AND INTERCONNECTION AGREEMENT FOR A SOLAR (PV) OR WIND GENERATING FACILITY OF 1 MW OR LESS Sheet 1	46145-E
48278-E	Electric Sample Form No. 79-1131-02 NEM2V Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Sheet 1	46146-E
48279-E	Electric Sample Form 79-1137 Interconnection Agreement for Net Metering for a Renewable Electrical Generation Facility of 1,000 kW or Less, Except Solar Or Wind Sheet 1	41131-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
48280-E	ELECTRIC SAMPLE FORM 79-1142 NEMV INTERCONNECTION APPLICATION FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1 MEGAWATT OR LESS Sheet 1	46147-E
48281-E	Electric Sample Form 79-1145 Rule 21 Exporting Generator Interconnection Request Sheet 1	47128-E
48282-E	Electric Sample Form No. 79-1151A-02 Agreement And Customer Authorization Net Energy Metering (NEM2) Internconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Sheet 1	43280-E
48283-E	Electric Sample Form No. 79-1174 Rule 21 Generator Interconnection Application Sheet 1	47132-E
48284-E	Electric Sample Form No. 79-1174-02 Rule 21 Generator Interconnection Application Sheet 1	47133-E
48285-E	Electric Sample Form No. 79-1186 Customer Information Service Request For Share My Data CISR-SMD Sheet 1	43239-E**
48286-E	Electric Sample Form No. 79-1191 Generating Facility Interconnection Agreement for Local Government Renewable Energy Self-Generation Bill Credit Transfer (RES-BCT) Sheet 1	43940-E*
48287-E	Electric Sample Form No. 79-726 Electric Standby Service Log Sheet Schedule S Sheet 1	45552-E
48288-E	ELECTRIC SCHEDULE E-19 MEDIUM GENERAL DEMAND-METERED TOU SERVICE Sheet 20	44810-E
48289-E	ELECTRIC TABLE OF CONTENTS Sheet 1	48261-E
48290-E	ELECTRIC TABLE OF CONTENTS Sheet 4	48264-E
48291-E	ELECTRIC TABLE OF CONTENTS Sheet 24	47715-E
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48293-E	ELECTRIC TABLE OF CONTENTS Sheet 28	47211-E
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48295-E	ELECTRIC TABLE OF CONTENTS Sheet 30	47905-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 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.

biomass	are met..... ☐ are not met ☐	digester gas	are met..... ☐ are not met ☐
solar thermal	are met..... ☐ are not met ☐	municipal solid waste	are met..... ☐ are not met ☐
photovoltaic	are met ☐ are not met ☐	landfill gas	are met..... ☐ are not met ☐
wind	are met ☐ are not met ☐	ocean wave	are met..... ☐ are not met ☐
geothermal	are met ☐ are not met ☐	ocean thermal	are met..... ☐ are not met ☐
fuel cell	are met ☐ are not met ☐	tidal current	are met..... ☐ are not met ☐
small hydroelectric generation	are met ☐ are not met ☐	biogas digester (under NEMBIO)	are met ☐ are not met ☐
fuel cell (under NEMFC)	are met ☐ are not met ☐	other technology	are met ☐ are not met ☐



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 61st 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 application¹ 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.

¹ 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 or fax to the following:

Pacific Gas and Electric Company
c/o EXIGIS LLC
support@exigis.com
Fax: 646-755-3327

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:

[Contact information to be supplied]

If to Producer:

[Contact information to be supplied]

- 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.



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF)

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.

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



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE 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.

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

(Company Name)

(Signature)

(Print Name)

(Title)

(Date)

(Signature)

(Print Name)

(Title)

(Date)



**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. Upon request, PG&E can provide copies to Producer of Rules “2” and “21.”)



*Pacific Gas and
Electric Company®*

**GENERATING FACILITY
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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 F

APPENDIX F (When applicable)

**LIST OF ELIGIBLE ACCOUNTS TO BE INCLUDED IN NET ENERGY
METERING CALCULATIONS PURSUANT TO SCHEDULE NEMBIO OR
NEMFC SPECIAL CONDITION 4**

Please use a separate sheet for each NEMBIO and/or NEMFC billing arrangement group, include the NEMBIO or NEMFC generator account information and clearly indicate which Eligible Accounts are to be associated with each listed NEMBIO or NEMFC generator account.

Service
Agreement
ID Number

Address (Street, City, Zip Code)

Sheet _____ of _____

**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. ² (Eligibility Requirements).

² 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.



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

Revised
Cancelling Revised

Cal. P.U.C. Sheet No. 48271-E
Cal. P.U.C. Sheet No. 32140-E

Electric Sample Form No. 79-1102
Section 399.20 Power Purchase Agreement

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5920-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted January 8, 2021
Effective August 18, 2020
Resolution



SECTION 399.20 POWER PURCHASE AGREEMENT

DISTRIBUTION:

REFERENCE:

- ☐ XXXX
- ☐ XXXX
- ☐ XXXX
- ☐ XXXX
- ☐ _____

PACIFIC GAS AND ELECTRIC COMPANY, a California Corporation (“PG&E” or “Buyer”), and _____ (“Seller”) hereby enter into this Power Purchase Agreement (“Agreement”). Seller and PG&E are sometimes 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 appendices, the Parties agree as follows:

1. DOCUMENTS INCLUDED; DEFINED TERMS

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

Appendix A- Definitions

Appendix B- Initial Energy Delivery Date Confirmation Letter

Appendix C- Time of Delivery (“TOD”) Periods and Factors

Appendix D- Counterparty Notification Requirements for Outage and Generation Schedule Changes

Appendix E- Description of the Facility

2. SELLER’S GENERATING FACILITY, PURCHASE PRICES AND PAYMENT

2.1 Facility. This Agreement governs PG&E’s purchase of the Product from the electrical generating facility (hereinafter referred to as the “Facility” or “Unit” or “Project”) as described in this Section.

2.1.1 The Facility is located at:

_____ County, California.

2.1.2 The Facility is named _____.

2.1.3 The Facility’s primary fuel is _____ [i.e. biogas, hydro, etc.].

2.1.4 The Facility has a Nameplate of ____ kilowatts (“kW”), at unity power factor at 60 degrees Fahrenheit at sea level and has a primary voltage level of ____ kilovolts

(“kV”). Seller shall not modify the Facility to increase the Nameplate without the prior written consent of PG&E. The Nameplate will be net of any Station Use, or in the case of solar it will be net of any inverter losses. The Nameplate will not exceed 1,500 kW.

2.1.5 The Facility is connected to the PG&E electric system at _____ kV.

2.1.6 If not already capable of delivering energy on the Execution Date, the Facility’s scheduled Commercial Operation Date is _____.

2.1.7 A description of the Facility, including a summary of its significant components, a drawing showing the general arrangements of the Facility, and a single line diagram illustrating the interconnection of the Facility and loads with PG&E’s electric distribution or transmission system, is attached and incorporated herein as Appendix E.

2.1.8 The name and address PG&E uses to locate the electric service account(s) and premises used to interconnect the Facility with PG&E’s distribution systems is:

2.2 Transaction. During the Delivery Term of this Agreement, as provided in Section 2.3, Seller shall sell and deliver, or cause to be delivered, and PG&E shall purchase and receive, or cause to be received, the Product from the Facility, up to 1500 kW, at the Delivery Point, as defined pursuant to Section 5.1, pursuant to Seller’s election of a (check one) ☐ full buy/sell or ☐ excess sale arrangement as described in paragraphs 2.2.1 and 2.2.2 below. PG&E shall pay Seller the Contract Price, set forth in Section 2.4, in accordance with the terms hereof. In no event shall Seller have the right to procure the Product from sources other than the Facility for sale or delivery to PG&E under this Agreement or substitute such Product. PG&E shall have no obligation to receive or purchase the Product from Seller prior to the Initial Energy Delivery Date, as defined in Section 2.3, or after the end of the Delivery Term, as defined in Section 2.3. The Parties agree that the execution and performance of the Parties under this Agreement shall satisfy PG&E’s obligations, if any, under the Public Utility Regulatory Policies Act and its implementing regulations, i.e., 18 C.F.R. §§ 292.303.

2.2.1 Full Buy/Sell. Seller agrees to sell to PG&E the Facility’s gross output in kilowatt-hours, net of Station Use and transformation and transmission losses to the Delivery Point into the PG&E system, together with all Green Attributes and Resource

Adequacy Benefits. Seller shall purchase all energy required to serve the Facility's on-site load, net of station use, from PG&E pursuant to PG&E's applicable retail rate schedule.

2.2.2 Excess Sale. Seller agrees to sell to PG&E the Facility's gross output in kilowatt-hours, net of Station Use and any on-site use by Seller and transformation and transmission losses to the Delivery Point into the PG&E system. Seller agrees to convey to PG&E all Green Attributes and Resource Adequacy Benefits associated with the energy sold to PG&E.

2.3 Delivery Term. The Seller shall deliver the Product from the Facility to PG&E for a period of (check one) ☐ ten (10), ☐ fifteen (15), or ☐ twenty (20) Contract Years ("Delivery Term"), which shall commence on the first date on which energy is delivered from the Facility to PG&E ("Initial Energy Delivery Date") under this Agreement and continue until the end of the last Contract Year unless terminated by the terms of this Agreement. The Initial Energy Delivery Date shall occur only when all of the following conditions have been satisfied:

(i) the Commercial Operation Date has occurred, if the Facility was not in operation prior to the Execution Date of this Agreement;

(ii) the Facility's status as an Eligible Renewable Energy Resource, is demonstrated by Seller's receipt of certification from the CEC and is registered in WREGIS; and

(iii) as evidence of the Initial Energy Delivery Date, the Parties shall execute and exchange the "Initial Energy Delivery Date Confirmation Letter" attached hereto as Appendix B on the Initial Energy Delivery Date.

2.4 Contract Price. Once both Parties have executed this Agreement PG&E shall pay Seller for each kilowatt hour ("kWh") of the Product delivered to PG&E during each Contract Year for the Delivery Term at the applicable Market Price Referent specified below for the Facility's actual Commercial Operation Date. Payment shall be adjusted by the appropriate Time of Delivery ("TOD") factor listed in Appendix C.

Adopted 2011 Market Price Referents - Long-Term Contracts¹ (Nominal - dollars/kWh)			
Resource Type	10-Year	15-Year	20-Year

¹ Note: Using 2011 as the base year, Staff calculates MPRs for 2012-2023 that reflect different project online dates. Link to 2011 MPR Model: <https://www.cpuc.ca.gov/general.aspx?id=5599>

2012 Baseload MPR	0.07688	0.08352	0.08956
2013 Baseload MPR	0.08103	0.08775	0.09375
2014 Baseload MPR	0.08454	0.09151	0.09756
2015 Baseload MPR	0.08804	0.09520	0.10132
2016 Baseload MPR	0.09156	0.09883	0.10509
2017 Baseload MPR	0.09488	0.10223	0.10859
2018 Baseload MPR	0.09831	0.10570	0.11218
2019 Baseload MPR	0.10186	0.10928	0.11587
2020 Baseload MPR	0.10550	0.11296	0.11965
2021 Baseload MPR	0.10916	0.11675	0.12354
2022 Baseload MPR	0.11299	0.12067	0.12752
2023 Baseload MPR	0.11691	0.12469	0.13160

2.5 Billing. PG&E shall pay Seller by check or Automated Clearing House transfer within approximately 30 days of the meter reading date if the value of the purchased Product in a month is at least fifty dollars (\$50); if less, PG&E may pay Seller quarterly. PG&E shall have the right, but not the obligation, to read the Facility's meter on a daily basis.

2.6 Title and Risk of Loss. Title to and risk of loss related to Product from the Facility shall transfer from Seller to PG&E at the Delivery Point. Seller warrants that it will deliver to PG&E the Product from the Facility free and clear of all liens, security interests, claims and encumbrances or any interest therein or thereto by any person arising prior to the Delivery Point.

2.7 No Additional Incentives. Seller agrees that during the Term of this Agreement, Seller shall not seek additional compensation or other benefits pursuant to the Self-Generation Incentive Program, as defined in CPUC Decision ("D.") 01-03-073, the California Solar Initiative, as defined in CPUC D.06-01-024, PG&E's net energy metering tariff, or other similar California ratepayer subsidized program relating to energy production with respect to the Facility.

2.8 Private Energy Producer. Seller agrees to provide to Buyer copies of each of the documents identified in PUC Section 2821(d)(1), if applicable, as may be amended from time to time, as evidence of Seller's compliance with such PUC section. Such documentation shall be provided to Buyer within thirty (30) days of Seller's receipt of written request therefor.

3. GREEN ATTRIBUTES; RESOURCE ADEQUACY BENEFITS; EIRP REQUIREMENTS; ERR REQUIREMENTS

3.1 Green Attributes. Seller hereby provides and conveys all Green Attributes associated with all electricity generation from the Project to Buyer as part of the Product being delivered. Seller represents and warrants that Seller holds the rights to all Green Attributes from the Project, and Seller agrees to convey and hereby conveys all such Green Attributes to Buyer as included in the delivery of the Product from the Project.

3.2 WREGIS. Prior to the Initial Energy Delivery Date, Seller shall register the Facility in WREGIS and take all other actions necessary to ensure that the energy produced from the Facility is tracked for purposes of satisfying the California Renewables Portfolio Standard requirements, as may be amended or supplemented by the CPUC or CEC from time to time. Seller warrants that it shall take all necessary steps to ensure the Renewable Energy Credits transferred to Buyer under this Agreement are tracked in WREGIS and transferred in a timely manner to Buyer through WREGIS for purposes of satisfying Buyer's California Renewables Portfolio Standard Requirements, as may be amended or supplemented by the CPUC or CEC from time to time.

3.2.1 A "WREGIS Certificate Deficit" means any deficit or shortfall in WREGIS Certificates delivered to Buyer for a calendar month as compared to the metered energy for the same calendar month ("Deficient Month"). If any WREGIS Certificate Deficit is caused, or the result of any action or inaction, by Seller, then the amount of the Product in the Deficient Month shall be reduced by the amount of the WREGIS Certificate Deficit for the purposes of calculating Buyer's payment(s) to Seller. Any amount owed by Seller to Buyer because of a WREGIS Certificate Deficit shall be made as an adjustment to Seller's next monthly invoice to Buyer, and Buyer shall net such amount against Buyer's subsequent payment(s) to Seller.

3.2.2 Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in the Western Renewable Energy Generation Information System will be taken prior to the first delivery under the contract.

3.3 Resource Adequacy Benefits. In accordance with PUC Section 399.20(g), Seller conveys to PG&E all Resource Adequacy Benefits attributable to the physical generating capacity of Seller's Facility to enable PG&E to count such capacity towards PG&E's resource adequacy requirement for purposes of PUC Section 380. Seller shall take all reasonable actions and execute documents and instructions necessary to enable Buyer to secure Resource Adequacy Benefits; Seller shall comply with all applicable reporting requirements.

3.4 Eligible Renewable Resource. Seller will use commercially reasonable efforts to achieve and maintain status as an Eligible Renewable Energy Resource or ERR per the meaning set forth in California Public Utilities Code Section 399.12 and California Public Resources Code Section 25741, as either code provision is amended or supplemented from time to time.

[The following Section 3.5 Eligible Intermittent Resources Protocol (EIRP) Requirements applies only to Facilities greater than 1.0 MWs]

3.5 Eligible Intermittent Resources Protocol (EIRP) Requirements. Seller shall provide Buyer with a copy of the notice from CAISO certifying the Project as a Participating Intermittent Resource as soon as practicable after Seller's receipt of such notice of certification. Following such certification (i) Seller at its sole cost shall participate in and comply with EIRP and all additional protocols issued by the CAISO relating to Participating Intermittent Resources (as defined in the CAISO Tariff), and (ii) Buyer in its limited capacity as Seller's Scheduling Coordinator shall facilitate communication with the CAISO and provide other administrative materials to CAISO as necessary to satisfy Seller's obligations as Seller's Scheduling Coordinator and to the extent such actions are at de minimis cost to Buyer.

4. REPRESENTATION AND WARRANTIES; COVENANTS

4.1 Representations and Warranties. On the Execution Date, each Party represents and warrants to the other Party that:

4.1.1 it is duly organized, validly existing and in good standing under the laws of the jurisdiction of its formation;

4.1.2 the execution, delivery and performance of this Agreement is within its powers, have been duly authorized by all necessary action and do not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any law, rule, regulation, order or the like applicable to it;

4.1.3 this Agreement and each other document executed and delivered in accordance with this Agreement constitutes its legally valid and binding obligation enforceable against it in accordance with its terms;

4.1.4 it is not bankrupt and there are no proceedings pending or being contemplated by it or, to its knowledge, threatened against it which would result in it being or becoming bankrupt;

4.1.5 there is not pending or, to its knowledge, threatened against it or any of its affiliates any legal proceedings that could materially adversely affect its ability to perform its obligations under this Agreement; and

4.1.6 it is acting for its own account, has made its own independent decision to enter into this Agreement and as to whether this Agreement is appropriate or proper for it based upon its own judgment, is not relying upon the advice or recommendations of the other Party in so doing, and is capable of assessing the merits of, and understands and accepts, the terms, conditions and risks of this Agreement.

4.2 General Covenants. Each Party covenants that throughout the Term of this Agreement:

4.2.1 it shall continue to be duly organized, validly existing and in good standing under the laws of the jurisdiction of its formation;

4.2.2 it shall maintain (or obtain from time to time as required, including through renewal, as applicable) all regulatory authorizations necessary for it to legally perform its obligations under this Agreement; and

4.2.3 it shall perform its obligations under this Agreement in a manner that does not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any law, rule, regulation, order or the like applicable to it.

4.3 Seller Representation and Warranty and Covenant.

4.3.1 Representation and Warranty. In addition to the representations and warranties specified in Section 4.1, Seller makes the following additional representations and warranties as of the Execution Date:

(a) Seller's Facility is (check one) ☐ a facility owned by a state, local, or federal agency and used in the treatment or reclamation of sewage and industrial wastes; or ☐ a facility owned by a state, local, or federal agency that develops, stores, distributes or supplies water.

(b) Facility has not received an incentive under the Self-Generation Incentive Program, as defined in CPUC D.01-03-073, the California Solar Initiative, as defined in CPUC D.06-01-024, or PG&E's net energy metering tariff.

(c) Seller's execution of this Agreement will not violate PUC Section 2821(d)(1) if applicable.

(d) Seller, and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement that: (i) the Project qualifies and is certified by the CEC as an Eligible Renewable Energy Resource ("ERR") as such term is defined in Public Utilities Code Section 399.12 or Section 399.16; and (ii) the Project's output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

(e) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in California Public Utilities Commission Decision 08-08-028, and as may be modified by subsequent decision of the California Public Utilities Commission or by subsequent legislation.

To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

4.3.2 Covenant. Seller hereby covenants that throughout the Term of the Agreement, the Facility is, or will qualify prior to the Initial Energy Delivery Date, as an ERR, specifically, Seller and, if applicable, its successors, represents and warrants throughout the term of the Delivery Term of each Transaction entered into under this Agreement that: (a) the Unit(s) qualifies and is certified by the CEC as an Eligible Renewable Energy Resource; and (b) the Unit(s) output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

5. GENERAL CONDITIONS

5.1 Facility Care, Interconnection and Transmission Service. If PG&E does not deem Seller's existing interconnection service, equipment and agreement satisfactory for the delivery of energy under this Agreement, Seller shall execute a Small Generator Interconnection Agreement with PG&E's Generation Interconnection Services Department and pay and be responsible for designing, installing, operating, and maintaining the Facility in accordance with all applicable laws and regulations and shall comply with all applicable PG&E, CAISO, CPUC and FERC tariff provisions, including applicable interconnection and metering requirements. Seller shall also comply with any modifications, amendments or additions to the applicable tariff and protocols. During the Delivery Term, Seller shall arrange and pay independently for any and all necessary costs under any interconnection agreement with PG&E. To make deliveries to PG&E, Seller must maintain an interconnection agreement with PG&E in full force and effect.

5.2 Metering Requirements. Seller shall comply with all applicable rules in installing a meter appropriate for deliveries pursuant to the Full Buy/Sell or Excess Sale arrangement selected in paragraph 2.2, above, which can be electronically read daily by: (a) a telephone and modem; (b) an analog or digital phone connection; or (c) an internet portal address for PG&E's Energy Data Services ("EDS"). Seller shall be responsible for procuring and maintaining the communication link to electronically retrieve this metering data.

5.3 Standard of Care. Seller shall: (a) maintain and operate the Facility and Interconnection Facilities, except facilities installed by PG&E, in conformance with all applicable laws and regulations and in accordance with Good Utility Practices, as defined by PG&E's Wholesale Distribution Tariff and the CAISO Tariff, as they may be amended, supplemented or replaced (in whole or in part) from time to time; (b) obtain any

governmental authorizations and permits required for the construction and operation thereof; and (c) generate, schedule and perform transmission services in compliance with all applicable operating policies, criteria, rules, guidelines and tariffs and Good Utility Practices, as provided in clause (a) above. Seller shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability PG&E incurs as a result of Seller's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Facility throughout the Term of this Agreement.

5.4 Access Rights. PG&E, its authorized agents, employees and inspectors shall have the right to inspect the Facility on reasonable advance notice during normal business hours and for any purposes reasonably connected with this Agreement or the exercise of any and all rights secured to PG&E by law, or its tariff schedules, PG&E Interconnection Handbook and rules on file with the CPUC. PG&E shall make reasonable efforts to coordinate its emergency activities with the Safety and Security Departments, if any, of the Facility operator. Seller shall keep PG&E advised of current procedures for communicating with the Facility operator's Safety and Security Departments.

5.5 Protection of Property. Each Party shall be responsible for protecting its own facilities from possible damage resulting from electrical disturbances or faults caused by the operation, faulty operation, or non-operation of the other Party's facilities and such other Party shall not be liable for any such damages so caused.

5.6 PG&E Performance Excuse; Seller Curtailment.

5.6.1 PG&E Performance Excuse. PG&E shall not be obligated to accept or pay for the Product from the Facility during a Dispatch Down Period, or Force Majeure, as defined in Appendix A.

5.6.2 Seller Curtailment. PG&E may require Seller to interrupt or reduce deliveries of energy: (a) when necessary to construct, install, maintain, repair, replace, remove, or investigate any of its equipment or part of PG&E's transmission system or distribution system or facilities; or (b) if PG&E or the CAISO determines that curtailment, interruption, or reduction is necessary because of a System Emergency, as defined in the CAISO Tariff, Forced Outage, Force Majeure as defined in Appendix A, or compliance with Good Utility Practice, as such term is defined in the CAISO Tariff.

5.7 Notices of Outages. Whenever possible, PG&E shall give Seller reasonable notice of the possibility that interruption or reduction of deliveries may be required.

5.8 Greenhouse Gas Emissions: During the Term, Seller acknowledges that a Governmental Authority may require Buyer to take certain actions with respect to greenhouse gas emissions *attributable to the generation of Energy*, including, but not limited to, reporting, registering, tracking, allocating for or accounting for such emissions. Promptly following Buyer's written request, Seller agrees to take all commercially

reasonable actions and execute or provide any and all documents, information or instruments *with respect to generation by the Project* reasonably necessary to permit Buyer to comply with such requirements, if any.

6. INDEMNITY

Each Party as indemnitor shall save harmless and indemnify the other Party and the directors, officers, and employees of such other Party against and from any and all loss and liability for injuries to persons including employees of either Party, and damages, including property of either Party, resulting from or arising out of: (a) the engineering, design, construction, maintenance, or operation of; or (b) the installation of replacements, additions, or betterments to the indemnitor's facilities. This indemnity and save harmless provision shall apply notwithstanding the active or passive negligence of the indemnitee. Neither Party shall be indemnified for liability or loss, resulting from its sole negligence or willful misconduct. The indemnitor shall, on the other Party's request, defend any suit asserting a claim covered by this indemnity and shall pay all costs, including reasonable attorney fees that may be incurred by the other Party in enforcing this indemnity.

7. LIMITATION OF DAMAGES

EXCEPT AS OTHERWISE PROVIDED IN THIS AGREEMENT THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY AND ALL IMPLIED WARRANTIES ARE DISCLAIMED. LIABILITY SHALL BE LIMITED TO DIRECT ACTUAL DAMAGES ONLY, SUCH DIRECT ACTUAL DAMAGES SHALL BE THE SOLE AND EXCLUSIVE REMEDY AND ALL OTHER REMEDIES OR DAMAGES AT LAW OR IN EQUITY ARE WAIVED UNLESS EXPRESSLY HEREIN PROVIDED. NEITHER PARTY SHALL BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR INDIRECT DAMAGES, LOST PROFITS OR OTHER BUSINESS INTERRUPTION DAMAGES, BY STATUTE, IN TORT OR CONTRACT, UNDER ANY INDEMNITY PROVISION OR OTHERWISE. UNLESS EXPRESSLY HEREIN PROVIDED, AND SUBJECT TO THE PROVISIONS OF SECTION 6 (INDEMNITY), IT IS THE INTENT OF THE PARTIES THAT THE LIMITATIONS HEREIN IMPOSED ON REMEDIES AND THE MEASURE OF DAMAGES BE WITHOUT REGARD TO THE CAUSE OR CAUSES RELATED THERETO, INCLUDING THE NEGLIGENCE OF ANY PARTY, WHETHER SUCH NEGLIGENCE BE SOLE, JOINT OR CONCURRENT, OR ACTIVE OR PASSIVE.

8. NOTICES

Notices shall, unless otherwise specified herein, be in writing and may be delivered by hand delivery, United States mail, overnight courier service, facsimile or electronic messaging (e-mail). Whenever this Agreement requires or permits delivery of a "notice" (or requires a Party to "notify"), the Party with such right or obligation shall provide a written communication in the manner specified below. A notice sent by facsimile transmission or e-

mail will be recognized and shall be deemed received on the Business Day on which such notice was transmitted if received before 5 p.m. Pacific prevailing time (and if received after 5 p.m., on the next Business Day) and a notice by overnight mail or courier shall be deemed to have been received two (2) Business Days after it was sent or such earlier time as is confirmed by the receiving Party unless it confirms a prior oral communication, in which case any such notice shall be deemed received on the day sent. A Party may change its addresses by providing notice of same in accordance with this provision. All written notices shall be directed as follows:

TO PG&E: Pacific Gas and Electric Company
Attention: Manager, Contract Management
245 Market Street, Mail Code N12E
San Francisco, CA 94177-0001

TO SELLER: _____

9. INSURANCE

9.1 General Liability Coverage.

9.1.1 Seller shall maintain during the performance hereof, General Liability Insurance² of not less than \$1,000,000 if the Facility's Nameplate is over 100 kW, \$500,000 if the Facility's Nameplate is over 20 kW to 100kW or \$100,000 if the Facility' Nameplate is 20 kW or below of combined single limit or equivalent for bodily injury, personal injury, and property damage as the result of any one occurrence.

9.1.2 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.

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

² Governmental agencies which have an established record of self-insurance may provide the required coverage through self-insurance.

9.2 Additional Insurance Provisions.

9.2.1 Evidence of coverage described above in Paragraph 9.1 shall state that coverage provided in primary and is not excess to or contributing with any insurance or self-insurance maintained by PG&E.

9.2.2 PG&E shall have the right to inspect or obtain a copy of the original policy(ies) of insurance.

9.2.3 Seller shall furnish the required certificates and endorsements to PG&E prior to commencing operation.

9.2.4 All insurance certificates, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

Pacific Gas and Electric Company
Attention: Manager, Insurance Department
77 Beale Street, Room E280
San Francisco, CA 94105

10. TERM, DEFAULT, TERMINATION EVENT AND TERMINATION

10.1 Term. The term of this Agreement shall commence upon the later of: (i) execution by the duly authorized representatives of each of PG&E and Seller; or (ii) when PG&E notifies Seller that PG&E can accommodate Seller's Facility in PG&E's proportionate share of the statewide cumulative total of 250 MW as specified in PUC Section 399.20(e), and shall remain in effect until the conclusion of the Delivery Term or unless terminated sooner pursuant to Section 10.3 of this Agreement (the "Term"). All indemnity rights shall survive the termination of this Agreement for twelve (12) months.

10.2 Termination Event. Buyer shall be entitled to terminate the Agreement upon the occurrence of any of the following, each of which is a "Termination Event":

(a) The Facility has not achieved Commercial Operation within eighteen (18) months of the Execution Date of this Agreement;

(b) Seller has not sold or delivered the Product from the Facility to PG&E for a period of twelve (12) consecutive months;

(c) Seller breaches its covenant to maintain its status as an ERR as set forth in Section 4.3.2. of the Agreement.

10.3 Termination.

10.3.1 Declaration of a Termination Event. If a Termination Event has occurred and is continuing, Buyer shall have the right to: (a) send notice, designating a day, no earlier than five days after such notice is deemed to be received (as provided in Section 8) and no later than 20 days after such notice is deemed to be received (as provided in Section 8), as an early termination date of this Agreement ("Early Termination Date") unless Seller has timely communicated with Buyer and the Parties have agreed to resolve the circumstances giving rise to the termination Event; (b) accelerate all amounts owing between the Parties; and (c) terminate this Agreement and end the Delivery Term effective as of the Early Termination Date.

10.3.2 Release of Liability for Termination Event. Upon termination of this Agreement pursuant to Section 10.3.1, neither Party shall be under any further obligation or subject to liability hereunder, except with respect to the indemnity provision in Section 6 hereof, which shall remain in effect for a period of 12 months following the Early Termination Date.

11. SCHEDULING

11.1 Scheduling Obligations. PG&E shall be Seller's designated Scheduling Coordinator (as defined by CAISO tariff). PG&E will schedule Seller's project using Prudent Utility Practices and Seller shall employ Prudent Utility Practices and exercise reasonable efforts to operate and maintain its project. All generation interconnection and scheduling services shall be performed in accordance with all applicable operating policies, criteria, guidelines and tariffs of the CAISO or its successor, and any other generally accepted operational requirements. Seller, at its own expense, shall be responsible for complying with all applicable contractual, metering and interconnection requirements. Seller shall promptly notify PG&E of significant (i.e., greater than 100 kW) changes to its energy schedules using PG&E's web site (see Appendix D). Seller will exercise reasonable efforts to comply with conditions that might arise if the CAISO modifies or amends its tariffs, standards, requirements, and/or protocols in the future.

11.2 CAISO Charges.

11.2.1 CAISO Charge Obligations. PG&E and Seller shall cooperate to minimize CAISO delivery imbalances and any resulting fees, liabilities, assessments or similar charges assessed by the CAISO ("CAISO Charges") to the extent possible, and shall each promptly notify the other as soon as possible of any material loss of system capability, deviation or imbalance that is occurring or has occurred. Seller shall reimburse PG&E for any CAISO Charges PG&E incurs as a result of Seller's loss of system capability, deviation or imbalance. Any such CAISO Charges reimbursable to PG&E shall be limited to the period until the commencement of the next settlement period following Seller's notification for which the delivery schedule can be adjusted. Notwithstanding anything to the contrary

herein, in the event Seller makes a change to its schedule on the actual date and time of delivery for any reason (other than an adjustment imposed by CAISO) which results in differences between the project's actual generation and the scheduled generation (whether in part or in whole), Seller shall use reasonable efforts to notify PG&E. PG&E will make commercially reasonable efforts to accommodate Seller's changes and mitigate any imbalance penalties or charges levied for such changes.

11.2.2 CAISO Penalties. Seller shall be responsible for any "non-Performance Penalties" assessed to PG&E by the CAISO ("CAISO Penalties"), under the CAISO Tariff Enforcement Protocol, and not due to any fault of PG&E, which shall include, without limitation, any deviation, imbalance or uninstructed energy charges or penalties payable to the CAISO that are due to the fault of Seller. To the extent that Seller materially deviates from its energy schedules (other than an adjustment imposed by the CAISO, a deviation due to any fault of PG&E, or an excused Seller failure to deliver, whether for reasons of Force Majeure or otherwise), and such departure results in CAISO Penalties being assessed to PG&E, such CAISO Penalties shall be passed on to Seller. Any such CAISO Penalties passed on to Seller shall be limited to the period until the commencement of the next settlement period following Seller's notification (as described above) for which the delivery schedule can be adjusted.

12. CONFIDENTIALITY

Seller authorizes PG&E to release to the California Energy Commission ("CEC") and/or the CPUC information regarding the Facility, including the Seller's name and location, and the size, location and operational characteristics of the Facility, the Term, the ERR type, the Initial Energy Delivery Date and the net power rating of the Facility, as requested from time to time pursuant to the CEC's or CPUC's rules and regulations.

13. ASSIGNMENT

Neither Party shall assign this Agreement or its rights hereunder without the prior written consent of the other Party, which consent shall not be unreasonably withheld; provided, however, either Party may, without the consent of the other Party (and without relieving itself from liability hereunder), transfer, sell, pledge, encumber or assign this Agreement or the accounts, revenues or proceeds hereof to its financing providers and the financing provider(s) shall assume the payment and performance obligations provided under this Agreement with respect to the transferring Party provided, however, that in each such case, any such assignee shall agree in writing to be bound by the terms and conditions hereof and so long as the transferring Party delivers such tax and enforceability assurance as the non-transferring Party may reasonably request.

14. GOVERNING LAW

This agreement and the rights and duties of the parties hereunder shall be governed by

and construed, enforced and performed in accordance with the laws of the state of California, without regard to principles of conflicts of law. To the extent enforceable at such time, each party waives its respective right to any jury trial with respect to any litigation arising under or in connection with this agreement.

15. SEVERABILITY

If any provision in this Agreement is determined to be invalid, void or unenforceable by the CPUC or any court having jurisdiction, such determination shall not invalidate, void, or make unenforceable any other provision, agreement or covenant of this Agreement and the Parties shall use their best efforts to modify this Agreement to give effect to the original intention of the Parties.

16. COUNTERPARTS

This Agreement may be executed in one or more counterparts each of which shall be deemed an original and all of which shall be deemed one and the same Agreement. Delivery of an executed counterpart of this Agreement by facsimile or PDF transmission will be deemed as effective as delivery of an originally executed counterpart. Each Party delivering an executed counterpart of this Agreement by facsimile or PDF transmission will also deliver an originally executed counterpart, but the failure of any Party to deliver an originally executed counterpart of this Agreement will not affect the validity or effectiveness of this Agreement.

17. GENERAL

The CPUC has reviewed and approved this Agreement. No amendment to or modification of this Agreement shall be enforceable unless reduced to writing and executed by both parties. This Agreement shall not impart any rights enforceable by any third party other than a permitted successor or assignee bound to this Agreement. Waiver by a Party of any default by the other Party shall not be construed as a waiver of any other default. The term “including” when used in this Agreement shall be by way of example only and shall not be considered in any way to be in limitation. The headings used herein are for convenience and reference purposes only.

SECTION 399.20 POWER PURCHASE AGREEMENT

IN WITNESS WHEREOF, each Party has caused this Agreement to be duly executed by its authorized representative as of the date of last signature provided below.

This agreement is effective when accepted and executed by PG&E.

PACIFIC GAS AND ELECTRIC COMPANY

Seller

Authorized by (Print)

Signature

Title

Date

Authorized by (Print)

Signature

Title

Date

Appendix A

DEFINITIONS

“Business Day” means any day except a Saturday, Sunday, or a Federal Reserve Bank holiday during the hours of 8:00 a.m. and 5:00 p.m. local time for the relevant Party’s principal place of business where the relevant Party in each instance shall be the Party from whom the notice, payment or delivery is being sent.

“CAISO” means the California Independent System Operator Corporation or any successor entity performing similar functions.

“CAISO Tariff” means the CAISO FERC Electric Tariff, Third Replacement Volume No. 1, as amended from time to time.

“California Renewables Portfolio Standard” means the renewable energy program and policies established by Senate Bill 1038 and 1078, codified in California Public Utilities Code Sections 399.11 through 399.20 and California Public Resources Code Sections 25740 through 25751, as such provisions may be amended or supplemented from time to time.

“CEC” means the California Energy Commission or its successor agency.

“Commercial Operation Date” means the date on which the Facility is operating and is in compliance with applicable interconnection and system protection requirements, and able to produce and deliver energy to PG&E pursuant to the terms of this Agreement.

“Contract Year” means a period of twelve (12) consecutive months with the first Contract Year commencing on the first day of the month immediately following the Initial Energy Delivery Date and each subsequent Contract Year commencing on the anniversary of the Initial Energy Delivery Date.

“CPUC” means the California Public Utilities Commission, or successor entity.

“Delivery Point” means the point of interconnection to the PG&E distribution or transmission system.

“Dispatch Down Period” means: (a) curtailments ordered by the CAISO or PG&E as a result of a System Emergency, as defined in the CAISO Tariff; or (b) scheduled or unscheduled maintenance on PG&E’s transmission, distribution or interconnection facilities that prevents Buyer from receiving Delivered Energy at the Delivery Point. Notwithstanding the foregoing sentence, Buyer shall have the option in its sole discretion to curtail Seller’s energy deliveries up to 50 (fifty) hours each calendar year.

“Eligible Renewable Energy Resource” or “ERR” has the meaning set forth in Public Utilities Code Sections 399.12 and California Public Resources Code Section 25741, as either code provision may be amended or supplemented from time to time.

“Execution Date” means the latest signature date found at the end of the Agreement.

“FERC” means the Federal Energy Regulatory Commission or any successor

government agency.

“Forced Outage” means any unplanned reduction or suspension of the electrical output from the Facility resulting in the unavailability of the Facility, in whole or in part, in response to a mechanical, electrical, or hydraulic control system trip or operator-initiated trip in response to an alarm or equipment malfunction and any other unavailability of the Facility for operation, in whole or in part, for maintenance or repair that is not a scheduled maintenance outage and not the result of Force Majeure.

“Force Majeure” means any event or circumstance which wholly or partly prevents or delays the performance of any material obligation arising under this Agreement, but only if and to the extent (i) such event is not within the reasonable control, directly or indirectly, of the Party seeking to have its performance obligation(s) excused thereby, (ii) the Party seeking to have its performance obligation(s) excused thereby has taken all reasonable precautions and measures to prevent or avoid such event or mitigate the effect of such event on such Party’s ability to perform its obligations under this Agreement and which by the exercise of due diligence such Party could not reasonably have been expected to avoid and which by the exercise of due diligence it has been unable to overcome, and (iii) such event is not the direct or indirect result of the negligence or the failure of, or caused by, the Party seeking to have its performance obligations excused thereby. Force Majeure shall not be based on: (i) PG&E’s inability economically to use or resell the energy or capacity purchased hereunder; (ii) Seller’s ability to sell the energy, capacity or other benefits produced by or associated with the Facility at a price greater than the price set forth in this Agreement, (iii) Seller’s inability to obtain approvals of any type for the construction, operation, or maintenance of the Facility; (iv) Seller’s inability to obtain sufficient fuel to operate the Facility, except if Seller’s inability to obtain sufficient fuel is caused by an event of Force Majeure of the specific type described in any of subsections (i) through (iv) of this definition of Force Majeure; (v) a Forced Outage except where such Forced Outage is caused by an event of Force Majeure of the specific type described in any of subsections (i) through (iv) of this definition of Force Majeure; (vi) a strike or labor dispute limited only to Seller, Seller’s affiliates, the Engineering, Procurement, and Construction Contractor or subcontractors thereof; or (vii) any equipment failure not caused by an event of Force Majeure of the specific type described in any of subsections (i) through (iv) of this definition of Force Majeure.

“Green Attributes” means any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as: (1) any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SOx), nitrogen oxides (NOx), carbon monoxide (CO) and other pollutants; (2) any avoided emissions of carbon dioxide (CO2), methane (CH4), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change, or otherwise by law, to contribute to the actual or potential threat of altering

the Earth's climate by trapping heat in the atmosphere;³ (3) the reporting rights to these avoided emissions, such as Green Tag Reporting Rights. Green Tag Reporting Rights are the right of a Green Tag Purchaser to report the ownership of accumulated Green Tags in compliance with federal or state law, if applicable, and to a federal or state agency or any other party at the Green Tag Purchaser's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of Energy. Green Attributes do not include (i) any energy, capacity, reliability or other power attributes from the Project, (ii) production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the project that are applicable to a state or federal income taxation obligation, (iii) fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or (iv) emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits. If the Project is a biomass or biogas facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project.

"Law" means any statute, law, treaty, rule, regulation, ordinance, code, permit, enactment, injunction, order, writ, decision, authorization, judgment, decree or other legal or regulatory determination or restriction by a court or Governmental Authority of competent jurisdiction, including any of the foregoing that are enacted, amended, or issued after the Execution Date, and which becomes effective during the Delivery Term; or any binding interpretation of the foregoing. "Market Price Referent" means the market price referent applicable to this Agreement, as determined by the CPUC in accordance with Public Utilities Code Section 399.15(c), as may be amended or modified from time to time.

"Nameplate" has the meaning set forth in Section 2.1.4.

"Product" means the Energy (net of Station Use), capacity and all ancillary products, services or attributes similar to the foregoing which are or can be produced by or associated with the Facility, including, without limitation, renewable attributes, Renewable Energy Credits, Resource Adequacy Benefits and Green Attributes.

³ Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

“Renewable Energy Credit” has the meaning set forth in Public Utilities Code Section 399.12(h), as may be amended from time to time or as further defined or supplemented by Law.

“Resource Adequacy Benefits” means the rights and privileges attached to the Facility that satisfy any entity’s resource adequacy obligations, as those obligations are set forth in any Resource Adequacy Rulings and shall include any local, zonal or otherwise locational attributes associated with the Facility.

“Resource Adequacy Rulings” means CPUC Decisions 04-01-050, 04-10-035, 05-10-042, 06-06-064, 06-07-031 and any subsequent CPUC ruling or decision, or any other resource adequacy laws, rules or regulations enacted, adopted or promulgated by any applicable governmental authority, as such decisions, rulings, laws, rules or regulations may be amended or modified from time-to-time during the Delivery Term.

“Station Use” means energy consumed within the Facility’s electric energy distribution system as losses, as well as energy used to operate the Facility’s auxiliary equipment. The auxiliary equipment may include, but is not limited to, forced and induced draft fans, cooling towers, boiler feeds pumps, lubricating oil systems, plant lighting, fuel handling systems, control systems, and sump pumps.

“WREGIS” means the Western Renewable Energy Generating Information System or any successor renewable energy tracking program.

“WREGIS Certificate Deficit” has the meaning set forth in Section 3.2.

Appendix B
**INITIAL ENERGY DELIVERY DATE CONFIRMATION
LETTER**

In accordance with the terms of that certain Section 399.20 Power Purchase Agreement dated _____ (“Agreement”) by and between Pacific Gas and Electric Company (“PG&E”) and _____ (“Seller”), this letter serves to document the parties further agreement that (i) the conditions precedent to the occurrence of the Initial Energy Delivery Date have been satisfied, and (ii) Seller has scheduled and PG&E has received the energy, as specified in the Agreement, as of this _____ day of _____, _____. This letter shall confirm the Initial Energy Delivery Date, as defined in the Agreement, as the date referenced in the preceding sentence.

IN WITNESS WHEREOF, each Party has caused this Agreement to be duly executed by its authorized representative as of the date of last signature provided below:

By: _____	By: Pacific Gas and Electric Company
Signed: _____	Signed: _____
Name: _____	Name: _____
Title: _____	Title: _____
Date: _____	Date: _____

Appendix C

Time of Delivery (TOD) Periods & Factors

Monthly Period	Super-Peak ¹	Shoulder ²	Night ³
Jun – Sep	2.38	1.12	0.59
Oct.- Dec., Jan. & Feb.	1.10	.94	0.66
Mar. – May	1.22	0.90	0.61

Definitions:

1. Super-Peak (5x8) = HE (Hours Ending) 13 – 20 (Pacific Prevailing Time (PPT)), Monday - Friday (*except* NERC holidays) in the applicable Monthly Period.
2. Shoulder = HE 7 - 12, 21 and 22 PPT, Monday - Friday (*except* NERC holidays); and HE 7 - 22 PPT Saturday, Sunday and *all* NERC holidays in the applicable Monthly Period.
3. Night (7x8) = HE 1 - 6, 23 and 24 PPT all days (*including* NERC holidays) in the applicable Monthly Period.

“NERC Holidays” mean the following holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Three of these days, Memorial Day, Labor Day, and Thanksgiving Day occur on the same day each year. Memorial Day is the last Monday in May; Labor Day is the first Monday in September; and Thanksgiving Day is the 4th Thursday in November. New Year’s Day, Independence Day, and Christmas Day, by definition, are predetermined dates each year. However, in the event they occur on a Sunday, the “NERC Holiday” is celebrated on the Monday immediately following that Sunday. However, if any of these days occur on a Saturday, the “NERC Holiday” remains on that Saturday.

Appendix D**COUNTERPARTY NOTIFICATION AND FORECASTING
REQUIREMENTS****A. NOTIFICATION REQUIREMENTS FOR START-UP AND SHUTDOWN**

Prior to paralleling to or after disconnecting from the electric system, ALWAYS notify your designated Distribution Operator as follows:

1. Call your Distribution Operator for permission to parallel before any start-up.
2. Call your Distribution Operator again after start-up with parallel time.
3. Call your Distribution Operator after any separation and report separation time as well as date and time estimate for return to service.

B. FORECASTING REQUIREMENTS

1. Seller shall abide with all established requirements and procedures described below:

(a) Generating Facilities 1000 kW and greater must comply with the CAISO Tariff and Protocols while generating facilities under 1000 kW must comply with all applicable interconnection, communication and metering rules; and

(b) Generating Facilities 100 kW and greater must provide a weekly forecast of their expected generation output.

2. Weekly Energy Forecasting Procedures.

Seller must meet all of the following requirements specified below:

Beginning the Wednesday prior to the planned Initial Operation of the Generating Facility, Seller will electronically provide PG&E with an Energy Forecast for the next calendar week, by no later than 5 PM Wednesday of the week preceding the week covered by the Energy Forecast.

The Weekly Energy Forecast submitted to PG&E shall:

- a) Not include any anticipated or expected electric energy losses;
- b) Be submitted using PG&E's website at <http://www.pge.com/odms>, or as otherwise instructed by PG&E;
- c) Include Seller's contact information;

d) Limit Day Ahead forecast changes to no less than 100 kW.

3. Outage and Scheduled Maintenance Reporting Procedures.

Submit outage information by posting on PG&E's website at <http://www.pge.com/odms>. If the website is unavailable, implement the procedures set forth below:

For project outages, complete the specifics below and submit by email to DAenergy@pge.com and Bilat_Settlements@pge.com

Email subject Field: dd/mm/yyyy – dd/mm/yyyy XYZ Company Project #2 Outage Notification

Email body:

Type of Outage: Planned Outage, Forced Outage, Prolonged Outage

Start Date and Start Time

Estimated or Actual End Date and End Time

Date and time when reported to PG&E and name(s) of PG&E representative(s) contacted.

C. CHANGES TO OPERATING PROCEDURES.

Seller understands and acknowledges that the specified transmission and scheduling mechanisms, metering requirements, Forecasting , Outage and Scheduling Maintenance Reporting Procedures described therein are subject to change by Buyer from time to time and, upon receipt of Notice of any such changes, Seller agrees to work in good faith to implement any such changes as reasonably deemed necessary by Buyer; provided that such change does not result in an increase cost of performance to Seller hereunder other than de minimis amounts.

Appendix E

Attach a description of the Facility, including a summary of its significant components, a drawing showing the general arrangements of the Facility, and a single line diagram illustrating the interconnection of the Facility and loads with PG&E's electric distribution or transmission system.



Electric Sample Form No. 79-1103
Small Renewable Generator Power Purchase Agreement

Sheet 1

**Please Refer to Attached
Sample Form**



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

DISTRIBUTION:

REFERENCE:

- ☐ XXXX
- ☐ XXXX
- ☐ XXXX
- ☐ XXXX
- ☐ _____

PACIFIC GAS AND ELECTRIC COMPANY, a California Corporation (“PG&E” or “Buyer”), and _____ (“Seller”) hereby enter into this Power Purchase Agreement (“Agreement”). Seller and PG&E are sometimes 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 appendices, the Parties agree as follows:

1. DOCUMENTS INCLUDED; DEFINED TERMS

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

Appendix A - Definitions

Appendix B - Initial Energy Delivery Date Confirmation Letter

Appendix C - Time of Delivery (“TOD”) Periods and Factors

Appendix D - Counterparty Notification Requirements for Outage and Generation Schedule Changes

Appendix E - Description of the Facility

2. SELLER’S GENERATING FACILITY, PURCHASE PRICES AND PAYMENT

2.1 Facility. This Agreement governs PG&E’s purchase of the Product from the electrical generating facility (hereinafter referred to as the “Facility” or “Unit” or “Project”) as described in this Section.

2.1.1 The Facility is located at:

_____ County, California.

2.1.2 The Facility is named _____.

2.1.3 The Facility’s primary fuel is _____ [i.e. biogas, hydro, etc.].

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

2.1.4 The Facility has a Nameplate of ____ kilowatts (“kW”), at unity power factor at 60 degrees Fahrenheit at sea level and has a primary voltage level of ____ kilovolts (“kV”). Seller shall not modify the Facility to increase the Nameplate without the prior written consent of PG&E. The Nameplate will be net of any Station Use, or in the case of solar it will be net of any inverter losses. The Nameplate will not exceed 1,500 kW.

2.1.5 The Facility is connected to the PG&E electric system at ____ kV.

2.1.6 If not already capable of delivering energy on the Execution Date, the Facility’s scheduled Commercial Operation Date is _____.

2.1.7 A description of the Facility, including a summary of its significant components, a drawing showing the general arrangements of the Facility, and a single line diagram illustrating the interconnection of the Facility and loads with PG&E’s electric distribution or transmission system, is attached and incorporated herein as Appendix E.

2.1.8 The name and address PG&E uses to locate the electric service account(s) and premises used to interconnect the Facility with PG&E’s distribution systems is:

2.2 Transaction. During the Delivery Term of this Agreement, as provided in Section 2.3, Seller shall sell and deliver, or cause to be delivered, and PG&E shall purchase and receive, or cause to be received, the Product from the Facility, up to 1,500 kW, at the Delivery Point, as defined pursuant to Section 5.1, pursuant to Seller’s election of a (check one) ☐ full buy/sell or ☐ excess sale arrangement as described in paragraphs 2.2.1 and 2.2.2 below. PG&E shall pay Seller the Contract Price, set forth in Section 2.4, in accordance with the terms hereof. In no event shall Seller have the right to procure the Product from sources other than the Facility for sale or delivery to PG&E under this Agreement or substitute such Product. PG&E shall have no obligation to receive or purchase the Product from Seller prior to the Initial Energy Delivery Date, as defined in Section 2.3, or after the end of the Delivery Term, as defined in Section 2.3.

2.2.1 Full Buy/Sell. Seller agrees to sell to PG&E the Facility’s gross output in kilowatt-hours, net of Station Use and transformation and transmission losses to the Delivery Point into the PG&E system, together with all Green Attributes and Resource

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

Adequacy Benefits. Seller shall purchase all energy required to serve the Facility's on-site load, net of Station Use, from PG&E pursuant to PG&E's applicable retail rate schedule.

2.2.2 Excess Sale. Seller agrees to sell to PG&E the Facility's gross output in kilowatt-hours, net of Station Use and any on-site use by Seller and transformation and transmission losses to the Delivery Point into the PG&E system. Seller agrees to convey to PG&E all Green Attributes and Resource Adequacy Benefits associated with the energy sold to PG&E.

2.3 Delivery Term. The Seller shall deliver the Product from the Facility to PG&E for a period of (check one) ☐ ten (10), ☐ fifteen (15), or ☐ twenty (20) Contract Years ("Delivery Term"), which shall commence on the first date on which energy is delivered from the Facility to PG&E ("Initial Energy Delivery Date") under this Agreement and continue until the end of the last Contract Year unless terminated by the terms of this Agreement. The Initial Energy Delivery Date shall occur only when all of the following conditions have been satisfied:

(i) the Commercial Operation Date has occurred, if the Facility was not in operation prior to the Execution Date of this Agreement;

(ii) the Facility's status as an Eligible Renewable Energy Resource, is demonstrated by Seller's receipt of certification from the California Energy Commission ("CEC") and is registered in WREGIS; and

(iii) as evidence of the Initial Energy Delivery Date, the Parties shall execute and exchange the "Initial Energy Delivery Date Confirmation Letter" attached hereto as Appendix B on the Initial Energy Delivery Date.

2.4 Contract Price. PG&E shall pay Seller for each kilowatt hour ("kWh") of the Product delivered to PG&E during each Contract Year for the Delivery Term at the applicable Market Price Referent specified below for the Facility's actual Commercial Operation Date. Payment shall be adjusted by the appropriate Time of Delivery ("TOD") factor listed in Appendix C.

Adopted 2011 Market Price Referents - Long-Term Contracts ¹ (Nominal - dollars/kWh)			
Resource Type	10-Year	15-Year	20-Year

¹ Note: Using 2011 as the base year, Staff calculates MPRs for 2012-2023 that reflect different project online dates. Link to 2011 MPR Model: <https://www.cpuc.ca.gov/general.aspx?id=5599>

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2012 Baseload MPR	0.07688	0.08352	0.08956
2013 Baseload MPR	0.08103	0.08775	0.09375
2014 Baseload MPR	0.08454	0.09151	0.09756
2015 Baseload MPR	0.08804	0.09520	0.10132
2016 Baseload MPR	0.09156	0.09883	0.10509
2017 Baseload MPR	0.09488	0.10223	0.10859
2018 Baseload MPR	0.09831	0.10570	0.11218
2019 Baseload MPR	0.10186	0.10928	0.11587
2020 Baseload MPR	0.10550	0.11296	0.11965
2021 Baseload MPR	0.10916	0.11675	0.12354
2022 Baseload MPR	0.11299	0.12067	0.12752
2023 Baseload MPR	0.11691	0.12469	0.13160

2.5 **Billing.** PG&E shall pay Seller by check or Automated Clearing House transfer within approximately thirty (30) days of the meter reading date if the value of the purchased Product in a month is at least fifty dollars (\$50); if less, PG&E may pay Seller quarterly. PG&E shall have the right, but not the obligation, to read the Facility's meter on a daily basis.

2.6 **Title and Risk of Loss.** Title to and risk of loss related to the Product from the Facility shall transfer from Seller to PG&E at the Delivery Point. Seller warrants that it will deliver to PG&E the Product from the Facility free and clear of all liens, security interests, claims and encumbrances or any interest therein or thereto by any person arising prior to the Delivery Point.

2.7 **No Additional Incentives.** Seller agrees that during the Term of this Agreement, Seller shall not seek additional compensation or other benefits pursuant to the Self-Generation Incentive Program, as defined in California Public Utilities Commission ("CPUC") Decision ("D.") 01-03-073, the California Solar Initiative, as defined in CPUC D.06-01-024, PG&E's net energy metering tariff, or other similar California ratepayer subsidized program relating to energy production with respect to the Facility.

2.8 **Private Energy Producer.** Seller agrees to provide to Buyer copies of each of the documents identified in California Public Utilities Code ("PUC") Section 2821(d)(1), if applicable, as may be amended from time to time, as evidence of Seller's compliance with such PUC section. Such documentation shall be provided to Buyer within thirty (30) days of Seller's receipt of written request.

3. GREEN ATTRIBUTES; RESOURCE ADEQUACY BENEFITS; EIRP REQUIREMENTS; ERR REQUIREMENTS

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

3.1 Green Attributes. Seller hereby provides and conveys all Green Attributes associated with all electricity generation from the Project to Buyer as part of the Product being delivered. Seller represents and warrants that Seller holds the rights to all Green Attributes from the Project, and Seller agrees to convey and hereby conveys all such Green Attributes to Buyer as included in the delivery of the Product from the Project.

3.2 WREGIS. Prior to the Initial Energy Delivery Date, Seller shall register the Facility in WREGIS and take all other actions necessary to ensure that the energy produced from the Facility is tracked for purposes of satisfying the California Renewables Portfolio Standard requirements, as may be amended or supplemented by the CPUC or CEC from time to time. Seller warrants that all it shall take all necessary steps to ensure the Renewable Energy Credits transferred to Buyer under this Agreement are tracked in WREGIS and transferred in a timely manner to Buyer through WREGIS for purposes of satisfying Buyer's California Renewables Portfolio Standard Requirements, as may be amended or supplemented by the CPUC or CEC from time to time.

3.2.1 A "WREGIS Certificate Deficit" means any deficit or shortfall in WREGIS Certificates delivered to Buyer for a calendar month as compared to the metered energy for the same calendar month ("Deficient Month"). If any WREGIS Certificate Deficit is caused, or the result of any action or inaction, by Seller, then the amount of the Product in the Deficient Month shall be reduced by the amount of the WREGIS Certificate Deficit for the purposes of calculating Buyer's payment(s) to Seller. Any amount owed by Seller to Buyer because of a WREGIS Certificate Deficit shall be made as an adjustment to Seller's next monthly invoice to Buyer, and Buyer shall net such amount against Buyer's subsequent payment(s) to Seller.

3.2.2 Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in the Western Renewable Energy Generation Information System will be taken prior to the first delivery under the contract.

3.3 Resource Adequacy Benefits. In accordance with PUC Section 399.20(g), Seller conveys to PG&E all Resource Adequacy Benefits attributable to the physical generating capacity of Seller's Facility to enable PG&E to count such capacity towards PG&E's resource adequacy requirement for purposes of PUC Section 380. Seller shall take all reasonable actions and execute documents and instructions necessary to enable Buyer to secure Resource Adequacy Benefits; Seller shall comply with all applicable reporting requirements.

3.4 Eligible Renewable Resource. Seller will use commercially reasonable efforts to achieve and maintain status as an Eligible Renewable Energy Resource or ERR per the meaning set forth in California Public Utilities Code Section 399.12 and California Public Resources Code Section 25741, as either code provision is amended or supplemented from time to time.

[The following Section 3.5 Eligible Intermittent Resources Protocol Requirements applies only to Facilities greater than 1.0 MW]

3.5 Eligible Intermittent Resources Protocol (“EIRP”) Requirements. Seller shall provide Buyer with a copy of the notice from CAISO certifying the Facility as a Participating Intermittent Resource as soon as practicable after Seller’s receipt of such notice of certification. Following such certification: (i) Seller at its sole cost shall participate in and comply with EIRP and all additional protocols issued by the CAISO relating to Participating Intermittent Resources (as defined in the CAISO Tariff), and (ii) Buyer in its limited capacity as Seller’s Scheduling Coordinator shall facilitate communication with the CAISO and provide other administrative materials to the CAISO as necessary to satisfy Seller’s obligations and to the extent such actions are at *de minimis* cost to Buyer.

4. REPRESENTATION AND WARRANTIES; COVENANTS

4.1 Representations and Warranties. On the Execution Date, each Party represents and warrants to the other Party that:

4.1.1 it is duly organized, validly existing and in good standing under the laws of the jurisdiction of its formation;

4.1.2 the execution, delivery and performance of this Agreement is within its powers, have been duly authorized by all necessary action and do not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any law, rule, regulation, order or the like applicable to it;

4.1.3 this Agreement and each other document executed and delivered in accordance with this Agreement constitutes its legally valid and binding obligation enforceable against it in accordance with its terms;

4.1.4 it is not bankrupt and there are no proceedings pending or being contemplated by it or, to its knowledge, threatened against it which would result in it being or becoming bankrupt;

4.1.5 there is not pending or, to its knowledge, threatened against it or any of its affiliates any legal proceedings that could materially adversely affect its ability to perform its obligations under this Agreement; and

4.1.6 it is acting for its own account, has made its own independent decision to enter into this Agreement and as to whether this Agreement is appropriate or proper for it based upon its own judgment, is not relying upon the advice or recommendations of the other Party in so doing, and is capable of assessing the merits of, and understands and accepts, the terms, conditions and risks of this Agreement.

4.2 General Covenants. Each Party covenants that throughout the Term of this Agreement:

4.2.1 it shall continue to be duly organized, validly existing and in good standing under the laws of the jurisdiction of its formation;

4.2.2 it shall maintain (or obtain from time to time as required, including through renewal, as applicable) all regulatory authorizations necessary for it to legally perform its obligations under this Agreement; and

4.2.3 it shall perform its obligations under this Agreement in a manner that does not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any law, rule, regulation, order or the like applicable to it.

4.3 Seller Representation and Warranty and Covenant.

4.3.1 Representation and Warranty. In addition to the representations and warranties specified in Section 4.1, Seller makes the following additional representations and warranties as of the Execution Date:

(a) The Facility has not received an incentive under the Self-Generation Incentive Program, as defined in CPUC D.01-03-073, the California Solar Initiative, as defined in CPUC D.06-01-024, or PG&E's net energy metering tariff.

(b) Seller's execution of this Agreement will not violate PUC Section 2821(d)(1) if applicable.

(c) Seller, and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement that: (i) the Project qualifies and is certified by the CEC as an Eligible Renewable Energy Resource ("ERR") as such term is defined in Public Utilities Code Section 399.12 or Section 399.16; and (ii) the Project's output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

(d) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in California Public Utilities Commission Decision 08-08-028, and as may be modified by subsequent decision of the California Public Utilities Commission or by subsequent legislation. To the extent a change in law occurs after execution of this Agreement that causes

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this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

4.3.2 Covenant. Seller hereby covenants that throughout the Term of the Agreement, the Facility is, or will qualify prior to the Initial Energy Delivery Date, as an ERR, specifically, Seller and, if applicable, its successors, represents and warrants throughout the term of the Delivery Term of each Transaction entered into under this Agreement that: (a) the Unit(s) qualifies and is certified by the CEC as an Eligible Renewable Energy Resource; and (b) the Unit(s) output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

5. GENERAL CONDITIONS

5.1 Facility Care, Interconnection and Transmission Service. Seller shall execute a Small Generator Interconnection Agreement with PG&E's Generation Interconnection Services Department and pay and be responsible for designing, installing, operating, and maintaining the Facility in accordance with all applicable laws and regulations and shall comply with all applicable PG&E, CAISO, CPUC and FERC tariff provisions, including applicable interconnection and metering requirements. Seller shall also comply with any modifications, amendments or additions to the applicable tariff and protocols. During the Delivery Term, Seller shall arrange and pay independently for any and all necessary costs under any interconnection agreement with PG&E. To make deliveries to PG&E, Seller must maintain an interconnection agreement with PG&E in full force and effect.

5.2 Metering Requirements. Seller shall comply with all applicable rules in installing a meter appropriate for deliveries pursuant to the Full Buy/Sell or Excess Sale arrangement selected in paragraph 2.2, above, which can be electronically read daily by: (a) a telephone and modem; (b) an analog or digital phone connection; or (c) an internet portal address for PG&E's Energy Data Services ("EDS"). Seller shall be responsible for procuring and maintaining the communication link to electronically retrieve this metering data.

5.3 Standard of Care. Seller shall: (a) maintain and operate the Facility and Interconnection Facilities, except facilities installed by PG&E, in conformance with all applicable laws and regulations and in accordance with Good Utility Practices, as defined by PG&E's Wholesale Distribution Tariff and the CAISO Tariff, as they may be amended, supplemented or replaced (in whole or in part) from time to time; (b) obtain any governmental authorizations and permits required for the construction and operation

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thereof; and (c) generate, schedule and perform transmission services in compliance with all applicable operating policies, criteria, rules, guidelines and tariffs and Good Utility Practices, as provided in clause (a) above. Seller shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability PG&E incurs as a result of Seller's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Facility throughout the Term of this Agreement.

5.4 Access Rights. PG&E, its authorized agents, employees and inspectors shall have the right to inspect the Facility on reasonable advance notice during normal business hours and for any purposes reasonably connected with this Agreement or the exercise of any and all rights secured to PG&E by law, or its tariff schedules, PG&E Interconnection Handbook, and rules on file with the CPUC. PG&E shall make reasonable efforts to coordinate its emergency activities with the Safety and Security Departments, if any, of the Facility operator. Seller shall keep PG&E advised of current procedures for communicating with the Facility operator's Safety and Security Departments.

5.5 Protection of Property. Each Party shall be responsible for protecting its own facilities from possible damage resulting from electrical disturbances or faults caused by the operation, faulty operation, or non-operation of the other Party's facilities and such other Party shall not be liable for any such damages so caused.

5.6 PG&E Performance Excuse; Seller Curtailment.

5.6.1 PG&E Performance Excuse. PG&E shall not be obligated to accept or pay for the Product from the Facility during a Dispatch Down Period, or Force Majeure, as defined in Appendix A.

5.6.2 Seller Curtailment. PG&E may require Seller to interrupt or reduce deliveries of energy: (a) when necessary to construct, install, maintain, repair, replace, remove, or investigate any of its equipment or part of PG&E's transmission system or distribution system or facilities; or (b) if PG&E or the CAISO determines that curtailment, interruption, or reduction is necessary because of a System Emergency, as defined in the CAISO Tariff, Forced Outage, Force Majeure as defined in Appendix A, or compliance with Good Utility Practice, as such term is defined in the CAISO Tariff.

5.7 Notices of Outages. Whenever possible, PG&E shall give Seller reasonable notice of the possibility that interruption or reduction of deliveries may be required.

5.8 Greenhouse Gas Emissions: During the Term, Seller acknowledges that a Governmental Authority may require Buyer to take certain actions with respect to greenhouse gas emissions attributable to the generation of energy, including, but not limited to, reporting, registering, tracking, allocating for or accounting for such emissions. Promptly following Buyer's written request, Seller agrees to take all commercially

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reasonable actions and execute or provide any and all documents, information or instruments with respect to generation by the Facility reasonably necessary to permit Buyer to comply with such requirements, if any.

6. INDEMNITY

Each Party as indemnitor shall save harmless and indemnify the other Party and the directors, officers, and employees of such other Party against and from any and all loss and liability for injuries to persons including employees of either Party, and damages, including property of either Party, resulting from or arising out of: (a) the engineering, design, construction, maintenance, or operation of; or (b) the installation of replacements, additions, or betterments to the indemnitor's facilities. This indemnity and save harmless provision shall apply notwithstanding the active or passive negligence of the indemnitee. Neither Party shall be indemnified for liability or loss, resulting from its sole negligence or willful misconduct. The indemnitor shall, on the other Party's request, defend any suit asserting a claim covered by this indemnity and shall pay all costs, including reasonable attorney fees that may be incurred by the other Party in enforcing this indemnity.

7. LIMITATION OF DAMAGES

EXCEPT AS OTHERWISE PROVIDED IN THIS AGREEMENT THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY AND ALL IMPLIED WARRANTIES ARE DISCLAIMED. LIABILITY SHALL BE LIMITED TO DIRECT ACTUAL DAMAGES ONLY, SUCH DIRECT ACTUAL DAMAGES SHALL BE THE SOLE AND EXCLUSIVE REMEDY AND ALL OTHER REMEDIES OR DAMAGES AT LAW OR IN EQUITY ARE WAIVED UNLESS EXPRESSLY HEREIN PROVIDED. NEITHER PARTY SHALL BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR INDIRECT DAMAGES, LOST PROFITS OR OTHER BUSINESS INTERRUPTION DAMAGES, BY STATUTE, IN TORT OR CONTRACT, UNDER ANY INDEMNITY PROVISION OR OTHERWISE. UNLESS EXPRESSLY HEREIN PROVIDED, AND SUBJECT TO THE PROVISIONS OF SECTION 6 (INDEMNITY), IT IS THE INTENT OF THE PARTIES THAT THE LIMITATIONS HEREIN IMPOSED ON REMEDIES AND THE MEASURE OF DAMAGES BE WITHOUT REGARD TO THE CAUSE OR CAUSES RELATED THERETO, INCLUDING THE NEGLIGENCE OF ANY PARTY, WHETHER SUCH NEGLIGENCE BE SOLE, JOINT OR CONCURRENT, OR ACTIVE OR PASSIVE.

8. NOTICES

Notices shall, unless otherwise specified herein, be in writing and may be delivered by hand delivery, United States mail, overnight courier service, facsimile or electronic messaging (e-mail). Whenever this Agreement requires or permits delivery of a "notice" (or requires a Party to "notify"), the Party with such right or obligation shall provide a written

communication in the manner specified below. A notice sent by facsimile transmission or e-mail will be recognized and shall be deemed received on the Business Day on which such notice was transmitted if received before 5 p.m. Pacific prevailing time (and if received after 5 p.m., on the next Business Day) and a notice by overnight mail or courier shall be deemed to have been received two (2) Business Days after it was sent or such earlier time as is confirmed by the receiving Party unless it confirms a prior oral communication, in which case any such notice shall be deemed received on the day sent. A Party may change its addresses by providing notice of same in accordance with this provision. All written notices shall be directed as follows:

TO PG&E: Pacific Gas and Electric Company
Attention: Manager, Contract Management
245 Market Street, Mail Code N12E
San Francisco, CA 94177-0001

TO SELLER: _____

9. INSURANCE

9.1 General Liability Coverage.

9.1.1 Seller shall maintain during the performance hereof, General Liability Insurance² of not less than \$1,000,000 if the Facility's Nameplate is over 100 kW, \$500,000 if the Facility's Nameplate is over 20 kW to 100kW or \$100,000 if the Facility's Nameplate is 20 kW or below of combined single limit or equivalent for bodily injury, personal injury, and property damage as the result of any one occurrence.

9.1.2 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.

² Governmental agencies which have an established record of self-insurance may provide the required coverage through self-insurance.

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

9.2 Additional Insurance Provisions.

9.2.1 Evidence of coverage described above in Paragraph 9.1 shall state that coverage provided in primary and is not excess to or contributing with any insurance or self-insurance maintained by PG&E.

9.2.2 PG&E shall have the right to inspect or obtain a copy of the original policy(ies) of insurance.

9.2.3 Seller shall furnish the required certificates and endorsements to PG&E prior to commencing operation.

9.2.4 All insurance certificates, -endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

Pacific Gas and Electric Company
Attention: Manager, Insurance Department
77 Beale Street, Room E280
San Francisco, CA 94105

10. TERM, DEFAULT, TERMINATION EVENT AND TERMINATION

10.1 Term. The term of this Agreement shall commence upon execution by the duly authorized representatives of each of PG&E and Seller and shall remain in effect until the conclusion of the Delivery Term or unless terminated sooner pursuant to Section 10.3 of this Agreement (the "Term"). All indemnity rights shall survive the termination of this Agreement for twelve (12) months.

10.2 Termination Event. Buyer shall be entitled to terminate the Agreement upon the occurrence of any of the following, each of which is a "Termination Event":

(a) The Facility has not achieved Commercial Operation within eighteen (18) months of the Execution Date of this Agreement;

(b) Seller has not sold or delivered the Product from the Facility to PG&E for a period of twelve (12) consecutive months;

(c) Seller breaches its covenant to maintain its status as an ERR as set forth in Section 4.3.2 of the Agreement.

10.3 Termination.

10.3.1 Declaration of a Termination Event. If a Termination Event has occurred and is continuing, Buyer shall have the right to: (a) send notice, designating a day, no earlier than five (5) days after such notice is deemed to be received (as provided in Section 8) and no later than twenty (20) days after such notice is deemed to be received (as provided in Section 8), as an early termination date of this Agreement (“Early Termination Date”) unless Seller has timely communicated with Buyer and the Parties have agreed to resolve the circumstances giving rise to the Termination Event; (b) accelerate all amounts owing between the Parties; and (c) terminate this Agreement and end the Delivery Term effective as of the Early Termination Date.

10.3.2 Release of Liability for Termination Event. Upon termination of this Agreement pursuant to Section 10.3.1, neither Party shall be under any further obligation or subject to liability hereunder, except with respect to the indemnity provision in Section 6 hereof, which shall remain in effect for a period of twelve (12) months following the Early Termination Date.

11. SCHEDULING

11.1 Scheduling Obligations. PG&E shall be Seller’s designated Scheduling Coordinator (as defined by CAISO Tariff). PG&E will schedule Seller’s project using Prudent Utility Practices and Seller shall employ Prudent Utility Practices and exercise reasonable efforts to operate and maintain its project. All generation interconnection and scheduling services shall be performed in accordance with all applicable operating policies, criteria, guidelines and tariffs of the CAISO or its successor, and any other generally accepted operational requirements. Seller, at its own expense, shall be responsible for complying with all applicable contractual, metering and interconnection requirements. Seller shall promptly notify PG&E of significant (i.e., greater than 100 kW) changes to its energy schedules using PG&E’s web site (see Appendix D). Seller will exercise reasonable efforts to comply with conditions that might arise if the CAISO modifies or amends its tariffs, standards, requirements, and/or protocols in the future.

11.2 CAISO Charges.

11.2.1 CAISO Charge Obligations. PG&E and Seller shall cooperate to minimize CAISO delivery imbalances and any resulting fees, liabilities, assessments or similar charges assessed by the CAISO (“CAISO Charges”) to the extent possible, and shall each promptly notify the other as soon as possible of any material loss of system capability, deviation or imbalance that is occurring or has occurred. Seller shall reimburse PG&E for

any CAISO Charges that PG&E incurs as a result of Seller's loss of system capability, deviation, or imbalance. Any such CAISO Charges reimbursable to PG&E shall be limited to the period until the commencement of the next settlement period following Seller's notification for which the delivery schedule can be adjusted. Notwithstanding anything to the contrary herein, in the event Seller makes a change to its schedule on the actual date and time of delivery for any reason (other than an adjustment imposed by CAISO) which results in differences between the project's actual generation and the scheduled generation (whether in part or in whole), Seller shall use reasonable efforts to notify PG&E. PG&E will make commercially reasonable efforts to accommodate Seller's changes and mitigate any imbalance penalties or charges levied for such changes.

11.2.2 CAISO Penalties. Seller shall be responsible for any "non-Performance Penalties" assessed to PG&E by the CAISO ("CAISO Penalties"), under the CAISO Tariff Enforcement Protocol, and not due to any fault of PG&E, which shall include, without limitation, any deviation, imbalance or uninstructed energy charges or penalties payable to the CAISO that are due to the fault of Seller. To the extent that Seller materially deviates from its energy schedules (other than an adjustment imposed by the CAISO, a deviation due to any fault of PG&E, or an excused Seller failure to deliver, whether for reasons of Force Majeure or otherwise), and such departure results in CAISO Penalties being assessed to PG&E, such CAISO Penalties shall be passed on to Seller. Any such CAISO Penalties passed on to Seller shall be limited to the period until the commencement of the next settlement period following Seller's notification (as described above) for which the delivery schedule can be adjusted.

12. CONFIDENTIALITY

Seller authorizes PG&E to release to the CEC and/or the CPUC information regarding the Facility, including the Seller's name and location, and the size, location and operational characteristics of the Facility, the Term, the ERR type, the Initial Energy Delivery Date and the net power rating of the Facility, as requested from time to time pursuant to the CEC's or CPUC's rules and regulations.

13. ASSIGNMENT

Neither Party shall assign this Agreement or its rights hereunder without the prior written consent of the other Party, which consent shall not be unreasonably withheld; provided, however, either Party may, without the consent of the other Party (and without relieving itself from liability hereunder), transfer, sell, pledge, encumber or assign this Agreement or the accounts, revenues or proceeds hereof to its financing providers and the financing provider(s) shall assume the payment and performance obligations provided under this Agreement with respect to the transferring Party provided, however, that in each such case, any such assignee shall agree in writing to be bound by the terms and conditions hereof and so long as the transferring Party delivers such tax and enforceability assurance as the

non-transferring Party may reasonably request.

14. GOVERNING LAW

This agreement and the rights and duties of the parties hereunder shall be governed by and construed, enforced and performed in accordance with the laws of the state of California, without regard to principles of conflicts of law. To the extent enforceable at such time, each party waives its respective right to any jury trial with respect to any litigation arising under or in connection with this agreement.

15. SEVERABILITY

If any provision in this Agreement is determined to be invalid, void or unenforceable by the CPUC or any court having jurisdiction, such determination shall not invalidate, void, or make unenforceable any other provision, agreement or covenant of this Agreement and the Parties shall use their best efforts to modify this Agreement to give effect to the original intention of the Parties.

16. COUNTERPARTS

This Agreement may be executed in one or more counterparts each of which shall be deemed an original and all of which shall be deemed one and the same Agreement. Delivery of an executed counterpart of this Agreement by facsimile or PDF transmission will be deemed as effective as delivery of an originally executed counterpart. Each Party delivering an executed counterpart of this Agreement by facsimile or PDF transmission will also deliver an originally executed counterpart, but the failure of any Party to deliver an originally executed counterpart of this Agreement will not affect the validity or effectiveness of this Agreement.

17. GENERAL

The CPUC has reviewed and approved this Agreement. No amendment to or modification of this Agreement shall be enforceable unless reduced to writing and executed by both parties. This Agreement shall not impart any rights enforceable by any third party other than a permitted successor or assignee bound to this Agreement. Waiver by a Party of any default by the other Party shall not be construed as a waiver of any other default. The term “including” when used in this Agreement shall be by way of example only and shall not be considered in any way to be in limitation. The headings used herein are for convenience and reference purposes only.



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

IN WITNESS WHEREOF, each Party has caused this Agreement to be duly executed by its authorized representative as of the date of last signature provided below.

This agreement is effective when accepted and executed by PG&E.

PACIFIC GAS AND ELECTRIC COMPANY

Seller

Authorized by (Print)

Signature

Title

Date

Authorized by (Print)

Signature

Title

Date

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX A

Definitions

“Business Day” means any day except a Saturday, Sunday, or a Federal Reserve Bank holiday during the hours of 8:00 a.m. and 5:00 p.m. local time for the relevant Party’s principal place of business where the relevant Party in each instance shall be the Party from whom the notice, payment or delivery is being sent.

“CAISO” means the California Independent System Operator Corporation or any successor entity performing similar functions.

“CAISO Tariff” means the CAISO FERC Electric Tariff, Fifth Replacement Volume No. 1, as amended from time to time.

“California Renewables Portfolio Standard” means the renewable energy program and policies codified in California Public Utilities Code Sections 399.11 through 399.20 and California Public Resources Code Sections 25740 through 25751, as such provisions may be amended or supplemented from time to time.

“CEC” means the California Energy Commission or its successor agency.

“Commercial Operation Date” means the date on which the Facility is operating and is in compliance with applicable interconnection and system protection requirements, and able to produce and deliver energy to PG&E pursuant to the terms of this Agreement.

“Contract Year” means a period of twelve (12) consecutive months with the first Contract Year commencing on the first day of the month immediately following the Initial Energy Delivery Date and each subsequent Contract Year commencing on the anniversary of the Initial Energy Delivery Date.

“CPUC” means the California Public Utilities Commission, or successor entity.

“Delivery Point” means the point of interconnection to the PG&E distribution or transmission system.

“Dispatch Down Period” means: (a) curtailments ordered by the CAISO or PG&E as a result of a System Emergency, as defined in the CAISO Tariff; or (b) scheduled or unscheduled maintenance on PG&E’s transmission, distribution or interconnection facilities that prevents Buyer from receiving Delivered Energy at the Delivery Point. Notwithstanding the foregoing sentence, Buyer shall have the option in its sole discretion to curtail Seller’s energy deliveries up to fifty (50) hours each calendar year.

“Eligible Renewable Energy Resource” or “ERR” has the meaning set forth in Public Utilities Code Sections 399.12 and California Public Resources Code Section 25741, as

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX A

Definitions

either code provision may be amended or supplemented from time to time.

“Execution Date” means the latest signature date found at the end of the Agreement.

“FERC” means the Federal Energy Regulatory Commission or any successor government agency.

“Forced Outage” means any unplanned reduction or suspension of the electrical output from the Facility resulting in the unavailability of the Facility, in whole or in part, in response to a mechanical, electrical, or hydraulic control system trip or operator-initiated trip in response to an alarm or equipment malfunction and any other unavailability of the Facility for operation, in whole or in part, for maintenance or repair that is not a scheduled maintenance outage and not the result of Force Majeure.

“Force Majeure” means any event or circumstance which wholly or partly prevents or delays the performance of any material obligation arising under this Agreement, but only if and to the extent (i) such event is not within the reasonable control, directly or indirectly, of the Party seeking to have its performance obligation(s) excused thereby, (ii) the Party seeking to have its performance obligation(s) excused thereby has taken all reasonable precautions and measures to prevent or avoid such event or mitigate the effect of such event on such Party’s ability to perform its obligations under this Agreement and which by the exercise of due diligence such Party could not reasonably have been expected to avoid and which by the exercise of due diligence it has been unable to overcome, and (iii) such event is not the direct or indirect result of the negligence or the failure of, or caused by, the Party seeking to have its performance obligations excused thereby. Force Majeure shall not be based on: (i) PG&E’s inability economically to use or resell the energy or capacity purchased hereunder; (ii) Seller’s ability to sell the energy, capacity or other benefits produced by or associated with the Facility at a price greater than the price set forth in this Agreement, (iii) Seller’s inability to obtain approvals of any type for the construction, operation, or maintenance of the Facility; (iv) Seller’s inability to obtain sufficient fuel to operate the Facility, except if Seller’s inability to obtain sufficient fuel is caused by an event of Force Majeure of the specific type described in any of subsections (i) through (iv) of this definition of Force Majeure; (v) a Forced Outage except where such Forced Outage is caused by an event of Force Majeure of the specific type described in any of subsections (i) through (iv) of this definition of Force Majeure; (vi) a strike or labor dispute limited only to Seller, Seller’s affiliates, the Engineering, Procurement, and Construction Contractor or subcontractors thereof; or (vii) any equipment failure not caused by an event of Force Majeure of the specific type described in any of subsections (i) through (iv) of this definition of Force Majeure.

“Green Attributes” means any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX A

Definitions

avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as: (1) any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SO_x), nitrogen oxides (NO_x), carbon monoxide (CO) and other pollutants; (2) any avoided emissions of carbon dioxide (CO₂), methane (CH₄), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change, or otherwise by law, to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere;³ (3) the reporting rights to these avoided emissions, such as Green Tag Reporting Rights. Green Tag Reporting Rights are the right of a Green Tag Purchaser to report the ownership of accumulated Green Tags in compliance with federal or state law, if applicable, and to a federal or state agency or any other party at the Green Tag Purchaser's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of Energy. Green Attributes do not include (i) any energy, capacity, reliability or other power attributes from the Project, (ii) production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the project that are applicable to a state or federal income taxation obligation, (iii) fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or (iv) emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits. If the Project is a biomass or biogas facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project.

"Law" means any statute, law, treaty, rule, regulation, ordinance, code, permit, enactment, injunction, order, writ, decision, authorization, judgment, decree or other legal or regulatory determination or restriction by a court or Governmental Authority of competent jurisdiction, including any of the foregoing that are enacted, amended, or issued after the Execution Date, and which becomes effective during the Delivery Term; or any binding interpretation of the foregoing.

"Market Price Referent" means the market price referent applicable to this

³ Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX A

Definitions

Agreement, as determined by the CPUC in accordance with Public Utilities Code Section 399.15(c), as may be amended or modified from time to time.

“Nameplate” has the meaning set forth in Section 2.1.4.

“Product” means the energy (net of Station Use), capacity and all ancillary products, services or attributes similar to the foregoing which are or can be produced by or associated with the Facility, including, without limitation, renewable attributes, Renewable Energy Credits, Resource Adequacy Benefits and Green Attributes.

“Renewable Energy Credit” has the meaning set forth in Public Utilities Code Section 399.12(f), as may be amended from time to time or as further defined or supplemented by Law.

“Resource Adequacy Benefits” means the rights and privileges attached to the Facility that satisfy any entity’s resource adequacy obligations, as those obligations are set forth in any Resource Adequacy Rulings and shall include any local, zonal or otherwise locational attributes associated with the Facility.

“Resource Adequacy Rulings” means CPUC Decisions 04-01-050, 04-10-035, 05-10-042, 06-06-064, 06-07-031 and any subsequent CPUC ruling or decision, or any other resource adequacy laws, rules or regulations enacted, adopted or promulgated by any applicable governmental authority, as such decisions, rulings, laws, rules or regulations may be amended or modified from time-to-time during the Delivery Term.

“Station Use” means energy consumed within the Facility’s electric energy distribution system as losses, as well as energy used to operate the Facility’s auxiliary equipment. The auxiliary equipment may include, but is not limited to, forced and induced draft fans, cooling towers, boiler feeds pumps, lubricating oil systems, plant lighting, fuel handling systems, control systems, and sump pumps.

“WREGIS” means the Western Renewable Energy Generating Information System or any successor renewable energy tracking program.

“WREGIS Certificate Deficit” has the meaning set forth in Section 3.2.1.



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX B

Initial Energy Delivery Date Confirmation Letter

In accordance with the terms of that certain Small Renewable Generator Power Purchase Agreement dated _____ (“Agreement”) by and between Pacific Gas and Electric Company (“PG&E”) and _____ (“Seller”), this letter serves to document the parties further agreement that (i) the conditions precedent to the occurrence of the Initial Energy Delivery Date have been satisfied, and (ii) Seller has scheduled and PG&E has received the energy, as specified in the Agreement, as of this ____ day of _____, _____. This letter shall confirm the Initial Energy Delivery Date, as defined in the Agreement, as the date referenced in the preceding sentence.

IN WITNESS WHEREOF, each Party has caused this Agreement to be duly executed by its authorized representative as of the date of last signature provided below:

This agreement is effective when accepted and executed by PG&E.

PACIFIC GAS AND ELECTRIC COMPANY

Seller

Authorized by (Print)

Signature

Title

Date

Authorized by (Print)

Signature

Title

Date



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX C

Time of Delivery (TOD) Periods & Factors

Monthly Period	Super-Peak ¹	Shoulder ²	Night ³
Jun – Sep	2.38	1.12	0.59
Oct.- Dec., Jan. & Feb.	1.10	.94	0.66
Mar. – May	1.22	0.90	0.61

Definitions:

1. Super-Peak (5x8) = HE (Hours Ending) 13 – 20 (Pacific Prevailing Time (PPT)), Monday - Friday (*except* NERC holidays) in the applicable Monthly Period.
2. Shoulder = HE 7 - 12, 21 and 22 PPT Monday - Friday (*except* NERC holidays); and HE 7 - 22 PPT Saturday, Sunday and *all* NERC holidays in the applicable Monthly Period.
3. Night (7x8) = HE 1 - 6, 23 and 24 PPT all days (*including* NERC holidays) in the applicable Monthly Period.

“NERC Holidays” mean the following holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Three of these days, Memorial Day, Labor Day, and Thanksgiving Day occur on the same day each year. Memorial Day is the last Monday in May; Labor Day is the first Monday in September; and Thanksgiving Day is the 4th Thursday in November. New Year’s Day, Independence Day, and Christmas Day, by definition, are predetermined dates each year. However, in the event they occur on a Sunday, the “NERC Holiday” is celebrated on the Monday immediately following that Sunday. However, if any of these days occur on a Saturday, the “NERC Holiday” remains on that Saturday.



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX D

Counterparty Notification and Forecasting Requirements

A. NOTIFICATION REQUIREMENTS FOR START-UP AND SHUTDOWN

Prior to paralleling to or after disconnecting from the electric system, ALWAYS notify your designated Distribution Operator as follows:

1. Call your Distribution Operator for permission to parallel before any start-up.
2. Call your Distribution Operator again after start-up with parallel time.
3. Call your Distribution Operator after any separation and report separation time as well as date and time estimate for return to service.

B. FORECASTING REQUIREMENTS

1. Seller shall abide with all established requirements and procedures described below:

(a) Generating Facilities 1000 kW and greater must comply with the CAISO Tariff and Protocols while generating facilities under 1000 kW must comply with all applicable interconnection, communication and metering rules; and

(b) Generating Facilities 100 kW and greater must provide a weekly forecast of their expected generation output.

2. Weekly Energy Forecasting Procedures.

Seller must meet all of the following requirements specified below:

Beginning the Wednesday prior to the planned Initial Energy Delivery Date of the Generating Facility, and every Wednesday thereafter, Seller will electronically provide PG&E with an Energy Forecast for the next calendar week, by no later than 5 PM Wednesday of the week preceding the week covered by the Energy Forecast.

The Weekly Energy Forecast submitted to PG&E shall:

- a) Not include any anticipated or expected electric energy losses;
- b) Be submitted using PG&E's website at <http://www.pge.com/odms>, or as otherwise instructed by PG&E;
- c) Include Seller's contact information;
- d) Limit Day Ahead forecast changes to no less than 100 kW.



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX D

Counterparty Notification and Forecasting Requirements

3. Outage and Scheduled Maintenance Reporting Procedures.

Submit outage information by posting on PG&E's website at <http://www.pge.com/odms>. If the website is unavailable, implement the procedures set forth below:

For project outages, complete the specifics below and submit by email to DAenergy@pge.com and Bilat_Settlements@pge.com

Email subject Field: dd/mm/yyyy – dd/mm/yyyy XYZ Company Project #2 Outage Notification

Email body:

Type of Outage: Planned Outage, Forced Outage, Prolonged Outage

Start Date and Start Time

Estimated or Actual End Date and End Time

Date and time when reported to PG&E and name(s) of PG&E representative(s) contacted.

C. CHANGES TO OPERATING PROCEDURES.

Seller understands and acknowledges that the requirements of Appendix D are subject to change by Buyer from time to time and, upon receipt of Notice of any such changes, Seller agrees to work in good faith to implement any such changes as reasonably deemed necessary by Buyer; provided that such change does not result in an increase cost of performance to Seller other than de minimis amounts.



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX E

Facility Description

Appendix E

Attach a description of the Facility, including a summary of its significant components, a drawing showing the general arrangements of the Facility, and a single line diagram illustrating the interconnection of the Facility and loads with PG&E's electric distribution or transmission system.



Electric Sample Form No. 79-1109

Sheet 1

Virtual Net Energy Metering Application and Interconnection Agreement for the
Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less

**Please Refer to Attached
Sample Form**



Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less



Please note that this agreement does not constitute an application for **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact PG&E by phone, or by email using the subject "solar energy" at smarter-energy@pge.com, 1-800-933-9555 (residential) or BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the , Multifamily Affordable Solar Housing (MASH) or the New Solar Homes Partnership (NSHP) for affordable housing, please go to www.pge.com/csi where you will find information about the program, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the California Solar Initiative (CSI), MASH or the NSHP, contact PG&E at solar@pge.com.

THIS VIRTUAL NET ENERGY METERING APPLICATION AND INTERCONNECTION AGREEMENT FOR THE BUILDING OWNER OF MULTIFAMILY AFFORDABLE HOUSING WITH A SOLAR GENERATING FACILITY OF 1 MEGAWATT OR LESS (Agreement) applies to electric rate schedule NEMVMASH¹, Virtual Net Energy Metering Service for Multifamily Affordable Solar Housing for the Owner or designated agent of the Owner (Owner) who interconnects a solar electric Generating Facility with an capacity of 1 megawatt (1,000 kW) or less that is located on Owner's existing buildings that received incentives under PG&E's California Solar Initiative (CSI) Multifamily Affordable Solar Housing (MASH) Program or on the Owner's new, "Affordable Housing" as defined in Public Resource Code section 25401.6** that received incentives under the New Solar Homes Partnership (NSHP) Program in PG&E's service territory, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System.

The purpose of this Agreement is to allow Owner to interconnect a solar electric generating facility with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEMVMASH. Owner has elected to interconnect and operate its solar electric Generating Facility in parallel with PG&E's Distribution System, primarily to offset part or all of the Owner's Multifamily Affordable Solar Housing's own electrical requirements at the affiliated service points as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E along with a completed Supplemental Data Collection Form for Net Energy Metered Generating Facilities to initiate PG&E's interconnection review of the proposed Generating Facility.

¹ Formerly referred to as Rate Schedule NEMVNMA – See Advice Letter 3890-E regarding name change.

C. NEM Transition

Customers receiving service on the current NEMVMASH 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 Schedules NEMVMASH at:

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEMVMASH.pdf and Rate Schedule NEM at: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEM.pdf for more details.

D. Description of Service (this Agreement is being filed for, check all that apply):

- ☐ A New NEMVMASH Generating Facility interconnection (at an existing service).
- ☐ For Physical Changes to an interconnected NEMVMASH Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEMVMASH interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Solar Energy Generation Credits for an Existing NEMVMASH Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEMVMASH accounts.

E. Owner's Generating Facility Information - Where will the Generating Facility be installed?

Name shown on Owner's PG&E service account (Must Match Owner's Name on PG&E Energy Bill)			
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Home Phone	Fax	Email

F. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contractor		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

Please complete this agreement in its entirety

G. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

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

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of your Generating Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEMVMASH Owner's solar generating facility. **Please contact Generation Interconnection Services at**

Please complete this agreement in its entirety

415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.

Meter access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Document and Fee Requirements

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

Stale Agreements

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

A. Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including a completed Appendix A as well as the Supplemental Data Collection Form (see Part I Section B above)**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Common Area accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Common Area accounts will be defaulted to Rate Schedule E-1, establishing how Owner's Common Area Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Owner's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc.). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMVMASH Eligible Low Income Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only CEC-certified inverters² will pass the

² The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>

requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.

- c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below.)
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.
3. **Site Diagram** – The site diagram must show the building or buildings that will be included as part of the Eligible Low Income Housing that meets the applicable Service Delivery Point requirements if any, in the Applicability Section of NEMVMASH, the meter locations, and denote where the PV solar generating facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEMVMASH Generating Facility location –

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a solar electric Generating Facility 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.

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

☐ I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEMVMASH Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

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

5. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**

Internet Agreement Forms

If this Agreement has been completed electronically, it may be submitted to PG&E via e-mail or through PG&E's online portal when it becomes available. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be e-mailed to PG&E at the address noted in Part V Section F, "Notices".

Part IV – General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

Please complete this agreement in its entirety

☐ Yes

If **yes**, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate	☐ Meter located inside of facility/residence
☐ Unrestrained animal at meter or AC disconnect switch location	☐ Other (Please explain) _____

☐ No

D. Are any of your accounts on a Demand Response program?

☐ Yes

If **yes**, what program are you on? _____

☐ No.

(For more information on PG&E's demand response programs see: www.pge.com/demandresponse)

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

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ³ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

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

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

D. Service Panel Short Circuit Interrupting Rating

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

E. Maximum 3-Phase Fault Current Contribution

What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault). _____ Amps

F. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be e-mailed, along with the required attachments, to the email address below. Any applicable fee payments shall be mailed to:

Payment USPS Mail	Payment Overnight Mail
USPS Mail: PG&E CFM/PPC Department P.O. Box 997340 Sacramento, CA 95899-7340	Overnight Mail: PG&E Customer Fund Management Payment Processing Center 885 Embarcadero Drive West Sacramento, CA 95605

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to NEMVGen@pge.com

G. 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.

H. Term of Agreement

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

⁴ The total capacity is the PV panel rating times the quantity.

Please complete this agreement in its entirety

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. 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 Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMVMASH.

I. Governing Authority

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

J. Appendix A

Attached to this agreement is *Appendix A- Designation of Multifamily Common Area Accounts, Residential Units and their respective Solar Credit Allocation*.

Owner Name (Please Print): _____

(Signature): _____ Date:_____

Title: _____

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

Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and their Respective Solar Energy Credit Allocation

Project Identification Number _____ (for PG&E's use only)

Section 1 Instructions

- 1) Complete the section below (this information must match the Owner information on the associated *Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less* for the same NEMVMASH Eligible Low Income Facility.

Owner Name	Address	Date

- 2) Is this application for a new NEMVMASH Eligible Low Income Facility or a reallocation for an existing NEMVMASH facility? (Existing NEMVMASH facility Owners may not reallocate the Solar Allocation Percentages for all Common Area Accounts and all Residential Unit Accounts for a period of 5 years after first being interconnected on NEMVMASH, even if there is a change in Owner. However, after 5 years a reallocation may be requested. Also, a reallocation of credits between the different Common Area Accounts is allowed, and similarly if a residential unit becomes uninhabitable under the terms described in the NEMVMASH tariff in Special Condition 2 g, the Owner may choose to reallocate credits to the other Residential Unit Accounts).

This application is for an allocation for the initial new NEMVMASH Eligible Low Income Facility: ☐

This application is for a reallocation for an existing NEMVMASH Eligible Low Income Facility: ☐

- 3) For a new NEMVMASH Eligible Low Income Facility, if you applied for the Multifamily Affordable Solar Housing Program (MASH), please enter the percentages in the space provided below from the MASH application.

Solar Allocation Percentage for All Common Area Account(s) Listed in the MASH Incentive Application (only required if applying for MASH Track 1a incentives):	Solar Allocation Percentage for All Residential Unit Accounts Listed in MASH Incentive Application (only required if applying for MASH Track 1b incentives):	Both Percentages Must Total 100%
%	%	= 100 %

- 4) Please use the attached Appendix A, Section 2 page to list all accounts that are located in the Eligible Low Income Facility that will be taking service on NEMVMASH. Alternatively, an Applicant may complete the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. Include the Generator Account, all Common Area Accounts (if any) and all Residential Unit Accounts. The Common Area and Residential Unit Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements if any, in the NEMVMASH Applicability Section to be Eligible for Schedule NEMVMASH.

Please note for each row:

- **Account Type** - check the one box corresponding to the type of account (that is, Common Area, Residential Unit or Generator Account). Every row (account) should have one and only one of these 3 boxes checked. *(Required)*
- **Account Address** - Provide an address, including unit number, for all Accounts (for the Generator Account you may use the address of the nearest Common Area Account). *(Required)*
- **Name** - For Common Area Accounts and the Generator Account, the Owner's name must be entered. For Residential Unit Accounts, enter the name of the occupant, if it is known.

- **PG&E Account Number** - Enter the PG&E Account number on all Common Area Accounts and the Generator Account. (Required)
- **Otherwise Applicable Rate Schedule** – Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all Common Area Accounts and the desired Generator Account. (Required).
- **Solar Allocation Percentage** – For each Common Area Account and Residential Unit Account listed (but not the Generator Account), enter the Solar Allocation Percentage to two decimal places. The Solar Energy Allocation Percentage for each Residential Unit Account must be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. The total of all Solar Energy Allocation Percentages must equal 100%.
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages).

5) If the Eligible Low Income Facility has been on the MASH program for less than 5 years, verify that: (for all pages included).

Total of Solar Allocation Percentages for all the Common Area Accounts (if any) _____.

Total of Solar Allocation Percentage for all the Residential Unit Accounts _____.

These numbers must match the percentages provided in number 3 above (if receiving MASH incentives), from Line 2, and must add up to 100%.

Section 2

#	Account Type Check only one box for each row (required field)			Account Address (required field) (for Generator Account use address of nearest common area account)	For Residential Units, Last Name of Occupant, if known	(Required field for Common Area Accounts and Generator Account only)	(Required field for Common Area Accounts and Generator Account only)	(Required Field for Common Area Accounts and Residential Accounts)
	Common Area	Residential Unit	Generator Account (only 1)		For Common Area and Generator Accounts, Owner's Name (Name on PG&E Account)	PG&E Account Number	Otherwise Applicable Rate Schedule (OAS) under NEMVMASH	Solar Energy Allocation Percentage
1	☐	☐	☐					
2	☐	☐	☐					
3	☐	☐	☐					
4	☐	☐	☐					
5	☐	☐	☐					
6	☐	☐	☐					
7	☐	☐	☐					
8	☐	☐	☐					
9	☐	☐	☐					
10	☐	☐	☐					
11	☐	☐	☐					
12	☐	☐	☐					
13	☐	☐	☐					
14	☐	☐	☐					
15	☐	☐	☐					
16	☐	☐	☐					
17	☐	☐	☐					
Total Solar Energy Allocation Percentage for this page _____								

Project Identification Number _____ (for PG&E's use only)

Account List - Appendix A,

Section 2 Page _____ of _____

Please complete this agreement in its entirety

Automated Document, Preliminary Statement, Part A

Page 11 of 11
Form 79-1109
Advice 4295-G-B/5920-E-B
January 2021



Electric Sample Form 79-1124

Sheet 1

Eligible Low Income Development Virtual Net Energy Metering Application and
Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1
Megawatt or Less

**Please Refer to Attached
Sample Form**



NEMVMASH



Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 MW or Less



Please note that this agreement does not constitute an application for **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact PG&E by phone, or by email using the subject "solar energy" at smarter-energy@pge.com, 1-800-933-9555 (residential) or BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the , Multifamily Affordable Solar Housing (MASH) or the New Solar Homes Partnership (NSHP) for affordable housing, please go to www.pge.com/csi where you will find information about the program, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the California Solar Initiative (CSI), MASH or the NSHP, contact PG&E at solar@pge.com.

The purpose of this Agreement is to allow Owner to interconnect solar electric generation with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEMVMASH. Owner has elected to interconnect and operate its solar electric Generation in parallel with PG&E's Distribution System, to offset part or all of the Owner's Eligible Low Income Development's own electrical requirements at the affiliated service points as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E along with a completed Supplemental Data Collection Form for Net Energy Metered Generating Facilities to initiate PG&E's interconnection review of the proposed Generating Facility.

C. NEM Transition

Customers receiving service on the current NEMVMASH 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 Schedules NEMVMASH at:

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEMVMASH.pdf and Rate Schedule NEM at:
https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEM.pdf for more details.

D. Owner's Information -

Eligible Low Income Development Project Name			
Owner-Applicant's Name			
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Cell Phone	Fax	Email

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

Contractor	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

F. Other Contact Information (This information is optional).

Contact Person	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements which may result in

Please complete this agreement in its entirety

charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the *Authorization to Received Customer Information or Act on a Customer's Behalf*, which may be found at:
<https://www.pge.com/includes/docs/pdfs/mybusiness/energysavingsrebates/demandresponse/howtoapply/E79-1095%20Third%20Party%20Authorization.pdf>

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

G. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be e-mailed, along with the required attachments, to the email address below. Any applicable fee payments shall be mailed to:

Payment USPS Mail	Payment Overnight Mail
USPS Mail: PG&E CFM/PPC Department P.O. Box 997340 Sacramento, CA 95899-7340	Overnight Mail: PG&E Customer Fund Management Payment Processing Center 885 Embarcadero Drive West Sacramento, CA 95605

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to NEMVGen@pge.com

H. Required Documentation for Agreement (in addition to that required in Appendix B):

Plat Map – A parcel plot or plat map must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

Site Diagram – The site diagram must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

I. 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.

J. Term Of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. 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 Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMVMASH.

K. Governing Authority

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

L. Appendix A

Attached to this agreement is *Appendix A - Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units with Their Respective Solar Credit Allocation*.

M. Appendix B

Attached to this agreement is _____ completed copy/copies of *Appendix B – NEMVMASH Generating Facility Interconnection Agreement*, corresponding to each of the generator accounts listed in Appendix A. Owner agrees to comply with Electric Tariff Rule 21 and all other applicable tariffs at all times.

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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

Appendix A – Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units With Their respective Solar Energy Credit Allocation

Unique Project Name _____ (for PG&E's use only)

Section 1 Instructions

- 1) Complete the section below (this information must match the Owner information on the associated *Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 MW or Less* for the same NEMVMASH Eligible Low Income Facility.

Eligible Low Income Development Name (must be the same name as that on Page 2 of the Agreement)		
Owner Name	Address	Date

- 2) Is this application for a new NEMVMASH Eligible Low Income Development or a reallocation for an existing Eligible Low Income Development? Existing NEMVMASH Development Owners may not reallocate the Solar Allocation Percentages for all Common Area Accounts and all Residential Unit Accounts for a period of 5 years after first being interconnected on NEMVMASH, even if there is a change in Owner. However, after 5 years a reallocation may be requested. Also, a reallocation of credits between the different Common Area Accounts is allowed, and similarly if a residential unit becomes uninhabitable under the terms described in the NEMVMASH tariff in Special Condition 2 g, the Owner may choose to reallocate credits to the other Residential Unit Accounts.

This application is for an allocation for the initial new NEMVMASH Eligible Low Income Development: ☐

This application is for a reallocation for an existing NEMVMASH Eligible Low Income Development: ☐

- 3) A NEMVMASH Eligible Low Income Development on NEMVMASH must either receive incentive funds from the Multifamily Affordable Solar Housing Program (MASH), or the New Solar Homes Partnership (NSHP) for affordable housing, or be eligible to receive funds from the MASH program.

Is this Development receiving funds from either the MASH or NSHP program? Yes ☐ No ☐

If it is not receiving either MASH or NSHP incentives, is it eligible to receive MASH funds? Yes ☐ No ☐

- 4) For a new NEMVMASH Eligible Low Income Development, if you applied for MASH incentives, please enter the percentages in the space provided below from the MASH application.

Solar Allocation Percentage for All Common Area Account(s) Listed in the MASH Incentive Application (only required if applying for MASH Track 1a incentives):	Solar Allocation Percentage for All Residential Unit Accounts Listed in MASH Incentive Application (only required if applying for MASH Track 1b incentives):	Both Percentages Must Total 100%
%	%	= 100 %

- 5) Please use the attached Appendix A, Section 2 to list all accounts that are located in the Eligible Low Income Development that will be taking service on NEMVMASH.

On a building by building basis, please list all participating Generator Accounts, Common Area Accounts (if any) and all Residential Unit Accounts as specified in Appendix A.

Please note for each row:

- **Account Type** - check the one box corresponding to the type of account (that is, **Generator Account**, **Common Area** or **Residential Unit**). Every row (account) should have one and only one of these 3 boxes checked. *(Required)*. Additionally, Generator accounts must also list the CEC AC rating in the **Generator Capacity** column and be numbered, starting with "1" in the **Generator Number** column. This Agreement must include a completed copy of Appendix B corresponding to each generator shown in this table and the solar generator capacity on Appendix B Part IV section C. must match that listed in this table. The sum of all generators' capacities listed must not exceed 1 MW.
- **Account Address** - Provide an address, including unit number, for all Accounts (for Generator Accounts without an address please specify location in detail). *(Required)*
- **Name** - For Common Area Accounts and the Generator Account, the Owner's name must be entered. For Residential Unit Accounts, enter the name of the occupant, if it is known.
- **PG&E Account Number** - Enter the PG&E Account number on all Common Area Accounts and Generator Accounts. *(Required)*.
- **Otherwise Applicable Rate Schedule** – Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all Common Area Accounts and desired Generator Accounts. *(Required)*.
- **Total Solar Generation** (bottom of each page) – For each Generator Account total the CEC AC rating. The total of all rating of all Generator Accounts on all pages must equal no more than 1 MW.
- **Solar Allocation Percentage** (bottom of the each page) - For each Common Area Account and Residential Unit Account listed (but not the Generator Account), enter the Solar Allocation Percentage to two decimal places. The Solar Energy Allocation Percentage for each Residential Unit Account must be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. The total of all Solar Energy Allocation Percentages must equal 100%.
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages).

6) If the Eligible Low Income Development has been on the MASH program for less than 5 years, verify that: (for all pages included).

Total of Solar Allocation Percentages for all the Common Area Accounts (if any) _____.

Total of Solar Allocation Percentage for all the Residential Unit Accounts _____.

These numbers must match the percentages provided in number 3 above (if receiving MASH incentives), from Line 2, and must add up to 100%.

Appendix A – Designation of Generator Accounts, and their Associated Common Area Accounts and Residential Units with their respective Solar Energy Credit Allocation

Unique Project Name _____ (for PG&E's use only)

Section 2

Please list all participating on a building by building basis.

#	Account Type Check only one box for each row (required field)					Account Address (required field) (for Generator Accounts without an address please describe location in detail)	Owner's Name (For Residential Units, Last Name of Occupant, if known For Common Area and Generator Accounts. Use Name as shown on PG&E Account)	PG&E Account Number (Required field for Common Area Accounts and Generator Account only)	Otherwise Applicable Rate Schedule (OAS) under NEMVMASH (Required field for Common Area Accounts and Generator Account only)	Solar Energy Allocation Percentage (up to 2 decimal places. Required Field for Common Area Accounts and Residential Accounts)
	Generator Account	Generator Number (must complete an Appendix B with a corresponding generator number)	Generator Capacity (must total to no more than 1 MW)	Common Area	Residential Unit					
1	☐			☐	☐					
2	☐			☐	☐					
3	☐			☐	☐					
4	☐			☐	☐					
5	☐			☐	☐					
6	☐			☐	☐					
7	☐			☐	☐					
8	☐			☐	☐					
9	☐			☐	☐					
10	☐			☐	☐					
11	☐			☐	☐					
12	☐			☐	☐					
13	☐			☐	☐					
14	☐			☐	☐					
15	☐			☐	☐					
Total Solar Generation this page						Total Solar Energy Allocation Percentage for this page				

Account List - Appendix A, Section 2 --- Page _____ of _____

Please complete this agreement in its entirety

Appendix B – NEMVMASH Generating Facility Interconnection Agreement

Unique Project Name _____ (for PG&E's use only)

One completed Appendix B Interconnection Agreement must be submitted for each NEMVMASH generating facility in the Eligible Low Income Development. The number of interconnection agreements submitted should match the generator accounts shown in appendix A. All sections should be completed (unless otherwise noted in the text).

Part I – Requirements for Interconnection

Please complete all parts of this section:

A. Owner's Generating Facility Information - Where will the Generating Facility be installed?

Eligible Low Income Facility Name (must be the same name as that on Page 1 of the Agreement)		Unique Generator Number – (must match listing in Appendix A)
Nearest Street Address where this Generating Facility will Be Located		
City	State	Zip
Contractor Name (must be the same name as that on Page 1 of the Agreement)		

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

- ☐ A New NEMVMASH Generating Facility interconnection (at an existing service).
- ☐ For Physical Changes to an interconnected NEMVMASH Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEMVMASH interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Solar Energy Generation Credits for an Existing NEMVMASH Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEMVMASH accounts.

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
 - Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of your Generating Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEMVMASH Owner's solar generating facility. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Document and Fee Requirements

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

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner certifies that has submitted the application prior to September 9, 2017, or 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,

- (c) the Owner 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 application¹ no later than March 31, 2018, or
- (d) the Owner 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. Owner 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.

Stale Agreements

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

A. Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including a completed Appendix A** *Please note:* the Owner's name (as identified in Part I, Section C) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Common Area accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Common Area accounts will be defaulted to Rate Schedule E-1, establishing how Owner's Common Area Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Owner's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc.). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMVMASH Eligible Low Income Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only CEC-certified inverters² will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel manufacturer name, model number, number of panels, and the nameplate rating. As with

¹ 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

² The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>

the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below.)

- d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.
3. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**
 4. **Insurance** - Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEMVMASH Generating Facility location –

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a solar electric Generating Facility 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.

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

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

Insuring Company's Name: _____

Insurance Policy # _____

- ☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for this NEMVMASH Generating Facility.

B. Internet Agreement Forms

If this Agreement has been completed electronically, it may be submitted to PG&E via e-mail or through PG&E's online portal when it becomes available. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be e-mailed to PG&E at the address noted in Part I Section G of the Application, "Notices".

Part IV – General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

- ☐ Yes

If **yes**, specify what kind of generator _____

- ☐ No

Please complete this agreement in its entirety

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate	☐ Meter located inside of facility/residence
☐ Unrestrained animal at meter or AC disconnect switch location	☐ Other (Please explain) _____

☐ No

D. Are any of your accounts on a Demand Response program?

☐ Yes

If yes, what program are you on? _____

☐ No.

(For more information on PG&E's demand response programs see: www.pge.com/demandresponse)

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

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ³ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

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

3						

C. Photovoltaic Generator Equipment

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

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

D. Service Panel Short Circuit Interrupting Rating

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

E. Maximum 3-Phase Fault Current Contribution

What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault). _____ Amps

⁴ The total capacity is the PV panel rating times the quantity.



Electric Sample Form No. 79-1124-02

Sheet 1

Eligible Low Income Development Virtual Net Energy Metering (NEM2VMSH)
Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation
Totaling 1 Megawatt or Less

**Please Refer to Attached
Sample Form**



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION TOTALING 1 MW OR LESS

Please note that this agreement does not constitute an application for **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact PG&E by phone, or by email using the subject "solar energy" at smarter-energy@pge.com, 1-800-933-9555 (residential) or BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the , Multifamily Affordable Solar Housing (MASH) or the New Solar Homes Partnership (NSHP) for affordable housing, please go to www.pge.com/csi where you will find information about the program, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the California Solar Initiative (CSI), MASH or the NSHP, contact PG&E at solar@pge.com.

Unique Project Name _____ (for PG&E's use only)

If you are applying for a CSI rebate, please check the appropriate box below and continue with this application.

- ☐ I am also applying for a MASH rebate, and understand that I will have to apply for MASH rebates separately.
- ☐ I am also applying for a NSHP rebate, and understand that I will have to apply for the NSHP rebates separately.

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

A. Applicability and Purpose:

The purpose of this Agreement is to allow Owner to interconnect solar electric generation with PG&E's Electric System, subject to the provisions of this Agreement and PG&E's Schedule NEM2VMSH. Owner has elected to interconnect and operate its solar electric Generation in parallel with PG&E's Electric System, to offset part or all of the Owner's Eligible Low Income Development's own electrical requirements at the affiliated service points as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E along with a completed Supplemental Data Collection Form for Net Energy Metered Generating Facilities to initiate PG&E's interconnection review of the proposed Generating Facility.

D. Owner's Information -

Eligible Low Income Development Project Name			
Owner-Applicant's Name			
Street Address			
City	State	ZIP	
Mailing Address			
City	State	ZIP	
Business Phone	Cell Phone	Fax	Email

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET
ENERGY METERING (NEM2VMSH) APPLICATION AND
INTERCONNECTION AGREEMENT FOR MULTIFAMILY
AFFORDABLE HOUSING WITH SOLAR GENERATION
TOTALING 1 MW OR LESS

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

Contractor		Company Name	
Mailing Address			
City		State	Zip
Business Phone	Fax	Email	
☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

F. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City		State	Zip
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements which may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the *Authorization to Receive Customer Information or Act on a Customer's Behalf (Form 79-1095)*, which may be found at: <http://www.pge.com/tariffs/>

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

G. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be e-mailed, along with the required attachments, to the email address below. Any applicable fee payments shall be mailed to:

Payment USPS Mail	Payment Overnight Mail
USPS Mail: PG&E CFM/PPC Department P.O. Box 997340 Sacramento, CA 95899-7340	Overnight Mail: PG&E Customer Fund Management Payment Processing Center 885 Embarcadero Drive West Sacramento, CA 95605



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION TOTALING 1 MW OR LESS

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to NEMVGen@pge.com

H. Required Documentation for Agreement (in addition to that required in Appendix B):

Plat Map – A parcel plot or plat map must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

Site Diagram – The site diagram must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

I. 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.

J. Term Of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. 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 Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEM2VMSH.

K. Governing Authority

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

L. Appendix A

Attached to this agreement is *Appendix A - Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units with Their Respective Solar Credit Allocation*.

M. Appendix B

Attached to this agreement is _____ completed copy/copies of *Appendix B – NEM2VMSH Generating Facility Interconnection Agreement*, corresponding to each of the generator accounts listed in Appendix A. Owner agrees to comply with Electric Tariff Rule 21 and all other applicable tariffs at all times.

N. 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.

OWNER NAME:

PACIFIC GAS AND ELECTRIC COMPANY:

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET
ENERGY METERING (NEM2VMSH) APPLICATION AND
INTERCONNECTION AGREEMENT FOR MULTIFAMILY
AFFORDABLE HOUSING WITH SOLAR GENERATION
TOTALING 1 MW OR LESS

(Signature)

(Signature)

(Print Name)

(Print Name)

(Title)

Manager, Generation Interconnection Services
(Title)

(Date)

(Date)

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



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment A

Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units With Their Respective Solar Energy Credit Allocation TOTALING 1 MW OR LESS

Unique Project Name _____ (for PG&E's use only)

Section 1 Instructions

- 1) Complete the section below (this information must match the Owner information on the associated *Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 MW or Less* for the same NEM2VMSH Eligible Low Income Facility.

Eligible Low Income Development Name (must be the same name as that on Page 2 of the Agreement)		
Owner Name	Address	Date

- 2) Is this application for a new NEM2VMSH Eligible Low Income Development or a reallocation for an existing Eligible Low Income Development? Existing NEM2VMSH Development Owners may not reallocate the Solar Allocation Percentages for all Common Area Accounts and all Residential Unit Accounts for a period of 5 years after first being interconnected on NEM2VMSH, even if there is a change in Owner. However, after 5 years a reallocation may be requested. Also, a reallocation of credits between the different Common Area Accounts is allowed, and similarly if a residential unit becomes uninhabitable under the terms described in the NEM2VMSH tariff in Special Condition 2 g, the Owner may choose to reallocate credits to the other Residential Unit Accounts.

This application is for an allocation for the initial new NEM2VMSH Eligible Low Income Development: ☐

This application is for a reallocation for an existing NEM2VMSH Eligible Low Income Development: ☐

- 3) A NEM2VMSH Eligible Low Income Development on NEM2VMSH must either receive incentive funds from the Multifamily Affordable Solar Housing Program (MASH), or the New Solar Homes Partnership (NSHP) for affordable housing, or be eligible to receive funds from the MASH program.

Is this Development receiving funds from either the MASH or NSHP program? Yes ☐ No ☐

If it is not receiving either MASH or NSHP incentives, is it eligible to receive MASH funds? Yes ☐ No ☐

- 4) For a new NEM2VMSH Eligible Low Income Development, if you applied for MASH incentives, please enter the percentages in the space provided below from the MASH application.

Solar Allocation Percentage for All Common Area Account(s) Listed in the MASH Incentive Application (only required if applying for MASH Track 1a incentives):	Solar Allocation Percentage for All Residential Unit Accounts Listed in MASH Incentive Application (only required if applying for MASH Track 1b incentives):	Both Percentages Must Total 100%
%	%	= 100 %

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment A

Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units With Their Respective Solar Energy Credit Allocation TOTALING 1 MW OR LESS

- 5) Please use the attached Appendix A, Section 2 to list all accounts that are located in the Eligible Low Income Development that will be taking service on NEM2VMSH.

On a building by building basis, please list all participating Generator Accounts, Common Area Accounts (if any) and all Residential Unit Accounts as specified in Appendix A.

Please note for each row:

- **Account Type** - check the one box corresponding to the type of account (that is, **Generator Account**, **Common Area** or **Residential Unit**). Every row (account) should have one and only one of these 3 boxes checked. *(Required)*. Additionally, Generator accounts must also list the CEC AC rating in the **Generator Capacity** column and be numbered, starting with "1" in the **Generator Number** column. This Agreement must include a completed copy of Appendix B corresponding to each generator shown in this table and the solar generator capacity on Appendix B Part IV section C. must match that listed in this table. The sum of all generators' capacities listed must not exceed 1 MW.
- **Account Address** - Provide an address, including unit number, for all Accounts (for Generator Accounts without an address please specify location in detail). *(Required)*
- **Name** - For Common Area Accounts and the Generator Account, the Owner's name must be entered. For Residential Unit Accounts, enter the name of the occupant, if it is known.
- **PG&E Account Number** - Enter the PG&E Account number on all Common Area Accounts and Generator Accounts. *(Required)*.
- **Otherwise Applicable Rate Schedule** - Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all Common Area Accounts and desired Generator Accounts. *(Required)*.
- **Total Solar Generation** (bottom of each page) - For each Generator Account total the CEC AC rating. The total of all rating of all Generator Accounts on all pages must equal no more than 1 MW.
- **Solar Allocation Percentage** (bottom of the each page) - For each Common Area Account and Residential Unit Account listed (but not the Generator Account), enter the Solar Allocation Percentage to two decimal places. The Solar Energy Allocation Percentage for each Residential Unit Account must be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. The total of all Solar Energy Allocation Percentages must equal 100%.
- **Appendix A, Section 2 Page Numbers** - In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages).

- 6) If the Eligible Low Income Development has been on the MASH program for less than 5 years, verify that: (for all pages included).

Total of Solar Allocation Percentages for all the Common Area Accounts (if any) _____.

Total of Solar Allocation Percentage for all the Residential Unit Accounts _____.

These numbers must match the percentages provided in number 3 above (if receiving MASH incentives), from Line 2, and must add up to 100%.

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH)
APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE
HOUSING WITH SOLAR GENERATION

Attachment A

Designation of Generator Accounts, and their Associated Common Area Accounts and Residential
Units with their respective Solar Energy Credit Allocation

Unique Project Name _____ (for PG&E's use only)

Section 2

Please list all participating on a building by building basis.

#	Account Type Check only one box for each row (required field)					Account Address (required field) (for Generator Accounts without an address please describe location in detail)	Owner's Name (For Residential Units, Last Name of Occupant, if known For Common Area and Generator Accounts. Use Name as shown on PG&E Account)	PG&E Account Number (Required field for Common Area Accounts and Generator Account only)	Otherwise Applicable Rate Schedule (OAS) under NEM2VMSH (Required field for Common Area Accounts and Generator Account only)	Solar Energy Allocation Percentage (up to 2 decimal places. Required Field for Common Area Accounts and Residential Accounts)
	Generator Account	Generator Number (must complete an Appendix B with a corres- ponding generator number)	Generator Capacity)	Common Area	Residential Unit					
1	☐			☐	☐					
2	☐			☐	☐					
3	☐			☐	☐					
4	☐			☐	☐					
5	☐			☐	☐					
6	☐			☐	☐					
7	☐			☐	☐					
8	☐			☐	☐					
9	☐			☐	☐					
10	☐			☐	☐					
11	☐			☐	☐					
12	☐			☐	☐					
13	☐			☐	☐					
14	☐			☐	☐					
15	☐			☐	☐					
Total Solar Generation this page							Total Solar Energy Allocation Percentage for this page			

Account List - Appendix A, Section 2 --- Page _____ of _____

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

Unique Project Name _____ (for PG&E's use only)

One completed Appendix B Interconnection Agreement must be submitted for each NEM2VMSH generating facility in the Eligible Low Income Development. The number of interconnection agreements submitted should match the generator accounts shown in appendix A. All sections should be completed (unless otherwise noted in the text).

Part I – Requirements for Interconnection

Please complete all parts of this section:

A. Owner's Generating Facility Information - Where will the Generating Facility be installed?

Eligible Low Income Facility Name (must be the same name as that on Page 1 of the Agreement)		Unique Generator Number – (must match listing in Appendix A)
Nearest Street Address where this Generating Facility will Be Located		
City	State	Zip
Contractor Name (must be the same name as that on Page 1 of the Agreement)		

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

- ☐ A New NEM2VMSH Generating Facility interconnection (at an existing service).
- ☐ For Physical Changes to an interconnected NEM2VMSH Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEM2VMSH interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Solar Energy Generation Credits for an Existing NEM2VMSH Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEM2VMSH accounts.

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
 - Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of your Generating Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEM2VMSH Owner's solar generating facility. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner certifies that has submitted the application prior to September 9, 2017, or 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.

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

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NEM2VMSH Generating Facility Interconnection Agreement

Distribution Provider may require a field verification of the Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application¹ no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 201

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Owner 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.

Document and Fee Requirements

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

Stale Agreements

If this agreement is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEM2VMSH.

A. Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Electric System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the agreement package to PG&E.** As

¹ 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including a completed Appendix A** *Please note:* the Owner's name (as identified in Part I, Section C) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Common Area accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Common Area accounts will be defaulted to Rate Schedule E-1, establishing how Owner's Common Area Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Owner's loads relative to the Generating Facility, and the interconnection with PG&E's Electric System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc.). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEM2VMSH Eligible Low Income Facility and utility's Electric System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only CEC-certified inverters² will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below.)
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.
3. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**
4. **Insurance** - Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEM2VMSH Generating Facility location –

² The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a solar electric Generating Facility 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. To the extent that Owner has currently in force property insurance and commercial general liability or personal liability insurance, Owner agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. Pacific Gas and Electric Company shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation. As long as Owner meets the requirements of this section, Owner shall not be required to purchase any additional liability insurance.

- ☐ I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEM2VMSH Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

- ☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for this NEM2VMSH Generating Facility.

B. Internet Agreement Forms

If this Agreement has been completed electronically, it may be submitted to PG&E via e-mail or through PG&E's online portal when it becomes available. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be e-mailed to PG&E at the address noted in Part I Section G of the Application, "Notices".

Part IV – General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

- ☐ Yes

If yes, specify what kind of generator _____

- ☐ No

C. Are there any possible generator meter access issues?

- ☐ Yes If yes, check all that apply:

☐ Locked Room/Gate	☐ Meter located inside of facility/residence
☐ Unrestrained animal at meter or AC disconnect switch location	☐ Other (Please explain) _____

- ☐ No

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET
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Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

D. Are any of your accounts on a Demand Response program?

☐ Yes

If yes, what program are you on? _____

☐ No.

(For more information on PG&E's demand response programs see: www.pge.com/demandresponse)

Part V – Description of the Generating Facilities

Use additional sheets, if necessary.

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

List the AC disconnect switch that will be used at this Generating Facility. Disconnect Switch Manufacturer	Disconnect Switch Model Number	Disconnect Switch Rating (amps)

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ³ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						
3						

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

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET
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AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

C. Photovoltaic Generator Equipment

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

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

D. Service Panel Short Circuit Interrupting Rating

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

E. Maximum 3-Phase Fault Current Contribution

What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault). _____ Amps

F. 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 NEM2VMSH, 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.

G. Warranties or Service Agreements

Applicant certifies as a part of its interconnection request for NEM2MSH 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.

H. Ref costs in Rule 21

Customers on this tariff must pay for the interconnection of their Generation Facilities as provided in Electric Rule 21.

⁴ The total capacity is the PV panel rating times the quantity.



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

	Revised	Cal. P.U.C. Sheet No.	48276-E
<i>Cancelling</i>	Revised	Cal. P.U.C. Sheet No.	33682-E

Electric Sample Form 79-1125
NEM / NEMV / NEMVMASH Inspection Report

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5920-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

<i>Submitted</i>	<u>January 8, 2021</u>
<i>Effective</i>	<u>August 18, 2020</u>
<i>Resolution</i>	<u></u>



NEM / NEMV / NEMVMASH Inspection Report¹



Who needs to complete this Inspection Report?

A customer:

- who becomes a PG&E customer at a home, office or other facility having with an existing Renewable Electrical Generation Facility with plans to remain interconnected with PG&E on Rate Schedules NEM, NEMV or NEMVMASH
- who must complete a new net energy metering contract (for example, Form 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*) with PG&E for the existing generating facility and
- whose electrical generating facility and meter have not been installed or inspected within the previous three years and
- who must arrange to have their generating facility inspected and the Contractor section of this report completed by a California licensed electrician who is not the owner or operator of the facility and meter.

electrician (Inspector) shall perform the inspection of the electrical portion of the Generating Facility and meter.

Instructions

- 1) The Customer shall complete all of Part I and complete Section A of Part II. The Customer information in Section A of Part II should match that in Part I.
- 2) The Customer should arrange to have the Inspector inspect their Generating Facility and complete the remainder of Part II of this form and sign it.
- 3) The customer shall then submit the fully completed Report to PG&E.

If this form is not submitted within 90 days of the Customer becoming the customer of record for this account, Customer agrees to disconnect their Generating Facility and inform PG&E it no longer will take service on schedule NEM, NEMV or NEMVMASH.

For the safety of the Customer and PG&E employees, under no circumstances shall the Generating Facility be operated while interconnected with PG&E if it does not pass the Operational Test in Part II, Section I.

¹ Automated Document, Preliminary Statement, Part A.

Part I – Customer Information

A. Customer Generating Facility Information – Who is the PG&E Customer for this Generating Facility?

Generating Facility PG&E Account Holder Name (Must Match Customer Name on PG&E Blue Bill for generator)		PG&E Account Number for Generating Facility	Meter Number (Meter Badge ID)
Account Holder Street Address			
Account Holder City		Account Holder State	Account Holder Zip
Account Holder Billing Mail Address			
Billing City		Billing State	Billing Zip
Business Phone	Cell Phone	Fax	Email

B. Generator Location – Where is the Generating Facility Located?

Contact at Generator Location		
Generator Address		
Generator City	Generator State	Generator Zip
Generator Contact Phone	Fax	Email

☐ This contact person is to be used as PG&E contact and is authorized by Customer to receive confidential Customer information and act on behalf of Customer with respect to this agreement.²

C. Modifications

To your knowledge, has the system been modified in any way? ☐ No ☐ Yes

D. Installation Date

Do you know when this Generating Facility was installed?

☐ No
☐ Yes, Date Installed _____

E. Last Inspection Date

Do you know if this Generating Facility had a prior PG&E inspection?

☐ No
☐ Yes

Date of last inspection? _____

² Customer must utilize the *Authorization to Receive Customer Information or Act on a Customer's Behalf form*, which may be found at https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf.

¹ Automated Document, Preliminary Statement, Part A.

- F. By the Customer signing the attached new *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*, or other new NEM, NEMV or NEMVMASH interconnection agreement, this NEM / NEMV / NEMVMASH Inspection Report is hereby incorporated into Customer's new interconnection agreement.

A copy of this signed report should be retained with the "Permission to Operate" letter to confirm successful Generating Facility inspection.

Mailing Instructions and Assistance:

When this report has been completed it should be mailed to:

PG&E'S P.O. BOX ADDRESS	PG&E'S STREET ADDRESS
Pacific Gas and Electric Company Attention: Generation Interconnection Services Mail Code N7L P.O. Box 770000 San Francisco, California 94177	Pacific Gas and Electric Company Attention: Generation Interconnection Services Mail Code N7L 245 Market St. San Francisco, California 94105

If this Report has been completed electronically, it may be submitted to PG&E via e-mail or U.S. mail. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be mailed to PG&E at the address noted in the Notice Section of Customer's new interconnection agreement.

Phone calls and questions may be directed to the Generation Interconnection Services hotline at: 415-972-5676 or email gen@pge.com

Part II –Electrical Inspector Section

A. Inspection Information (to be filled in by the Customer – must match information in Part I)

Generating Facility PG&E Account Holder Name (Must Match Customer Name on PG&E Blue Bill for generator)	PG&E Account Number for Generating Facility	Meter Number (Meter Badge ID)
Generator Address		

¹ Automated Document, Preliminary Statement, Part A.

----- To be completed by Inspector -----

B. Inspector Information

California licensed Electrician Name		Company Name	
Currently Valid California Electrician License Number			
Mailing Address			
City		State	Zip
Business Phone	Fax	Email	

C. Inverters interconnected with PG&E

List all the inverters that currently are interconnected to PG&E at this Generating Facility.

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ³ kW (per unit)	Inverter CEC Rating kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1							
2							

D. Inverter CEC Approved

Are all the inverter models listed above currently listed on the <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> website?

☐ Yes ☐ No⁴

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

⁴ Equipment not currently listed on the Go Solar website, or equipment formerly listed but no longer listed, may be subject to additional review or testing before being authorized to continue interconnection with PG&E, depending on the reason it is no longer listed.

E. Photovoltaic Generator Equipment (if applicable)

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

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Nameplate Rating ⁵ kW (per unit)	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity ⁶ (kW)	Inverter number from (C.) above (1 or 2)
1							
2							

F. PV Panels CEC Approved

Are all the PV panel models listed above currently listed on the <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> website?

☐ Yes ☐ No⁷

G. Wind Turbine Equipment (if applicable)

List the wind turbine information requested below. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating ⁸ kW (per unit)	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁸	Turbine Output Voltage	Single or Three Phase	Inverter number from (C) above (1 or 2)
1									

H. Wind Turbine CEC Approved

Are all the wind turbine models listed above currently listed on the <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> website?

☐ Yes ☐ No⁹

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

⁶ The total capacity is the photovoltaic (PV) panel (or wind turbine) rating times the quantity.

⁷ Id. Footnote 4 above.

⁸ Id. Footnote 6 above.

⁹ Id. Footnote 4 above.

I. Renewable Electrical Generation Facility (if applicable)

Identify the Renewable Electrical Generation Facility generator type code(s) from the table below and write it into the following table. Write NONE if no inverter is incorporated in each Generating Facility.

Generator Type Code Table		
A – biomass	B – solar thermal	C – geothermal
D – fuel cell	E – small hydroelectric generation	F – digester gas
G – municipal solid waste	H – landfill gas	I – ocean wave
J – ocean thermal	K – tidal current	

No.	Generator Type Code(s) for Renewable Electrical Generation Facility	Model	Nameplate Rating ¹⁰ kW (per unit)	Quantity (if multiple units)	Total Capacity (kW) ⁸	Output Voltage	Single or Three Phase	Inverter number from (C) above (1 or 2)
1								

Customers with non-certified generation equipment, such as synchronous generators, shall retain qualified testing personnel to perform the necessary tests specified in Rule 21 to meet this requirement. Customer or Inspector shall provide PG&E with 30 days notice of such facility testing, the testing shall be conducted at a mutually agreeable time, and PG&E shall be given the opportunity to witness the tests.

J. Other Interconnected Generators

Are there other generators interconnected on this account at this location? ☐ Yes ☐ No

If Yes, list generator technology and capacity for all generators

Are there any backup generators? ☐ Yes ☐ No

If yes, there are backup generators, is the back-up generator is open or close transition?
☐ Open ☐ Closed

K. Operational Tests

1.) Anti-islanding test

Pursuant to PG&E's Electric Rule 21, Section H.1.a.(3), verify the Generating Facility ceases to output within two seconds of opening the disconnect switch or otherwise disconnecting the Generating Facility from PG&E electrical system.

Passes test? ☐ Yes

2.) Reclose and return to service within Rule 21 guidelines

Pursuant to PG&E's Electric Rule 21, Section H.1.a.(2), verify that the time-delay function reconnects the Generating Facility with PG&E's Distribution System after at least 60 seconds.

¹⁰ Id. Footnote 6 above.

¹ Automated Document, Preliminary Statement, Part A.

Passes test? ☐ Yes

L. Governing Authority

The terms and conditions of this inspection report shall at all times be subject to such changes or modification by the Public Utilities Commission of the State of California as said Commission may, from time to time, direct in the exercise of its jurisdiction.

M. Inspector Signature

I certify that I am currently a California licensed electrician, that the responses given in Part II of this Report for the Generating Facility are true and accurate to the best of my knowledge, and that the Generating Facility satisfies the Operational Tests in Part II, Section I.

Name California licensed electrical contractor
(Please Print): _____

Name California licensed electrical contractor _____ Date: _____
Signature:

California licensed electrician License No: _____

¹ Automated Document, Preliminary Statement, Part A.



ELECTRIC SAMPLE FORM 79-1131 Sheet 1
NEMV APPLICATION AND INTERCONNECTION AGREEMENT FOR A SOLAR
(PV) OR WIND GENERATING FACILITY OF 1 MW OR LESS

**Please Refer to Attached
Sample Form**



Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less



Please note: This agreement does not constitute an application for rebate and/or incentive programs. For more information on these programs, please visit the program website at the links provided below.

- California Solar Initiative (CSI): www.pge.com/csi
- Self-Generation Incentive Program (SGIP): www.pge.com/sgip

of all eligible Benefitting Accounts (as defined in Schedule NEMV) of the past year but with a maximum total size of no larger than one MW or 1,000 kW (Renewable Electric Generation Facility) that is located at a Single Delivery Point¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEMV, that meets all the applicability requirements in Schedule NEMV, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System.

The purpose of this Agreement is to allow the Owner to interconnect the Renewable Electric Generation Facility with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEMV. Owner has elected to interconnect and operate its Renewable Electric Generation Facility in parallel with PG&E's Distribution System, primarily to offset part or all of the NEMV Arrangement's own electrical requirements of the Benefitting Accounts at the affiliated service delivery point as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

Note: If this application is for a Renewable Electric Generation Facility with a generator type that is other than solar (PV) and wind covered in Schedule NEMV, please use Application Form 79-1142.

Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E along with a completed Supplemental Data Collection Form for Net Energy Metered Generating Facilities to initiate PG&E's interconnection review of the proposed Generating Facility.

B. NEM Transition

Customers receiving service on the current NEMV 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 Schedules NEM and NEMV at https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHEDS_NEM.pdf and https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHEDS_NEMV.pdf for more details.

¹ Customer-owned line extensions that deliver power to other meters on the same property are not considered separate SDPs.

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

- ☐ A New NEMV Renewable Electric Generation Facility interconnection (at an existing service).
- ☐ For Physical/Electrical Changes to an interconnected NEMV Renewable Electric Generation Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEMV interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Eligible Energy Generation Credits under NEMV for an Existing Renewable Electric Generation Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEMV accounts.

Special Condition 6 of Schedule NEMV requires that any Customer with an existing generating facility and meter who enters into a new NEMV agreement shall complete and submit a copy of Form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

E. Owner's Renewable Electric Generation Facility Information - Where will the Generating Facility be installed?

Name shown on Owner's PG&E service account (Must Match Owner's Name on PG&E Energy Bill)			
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Home Phone	Fax	Email

F. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contractor	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

G. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Renewable Electric Generation Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements that may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the *Authorization to Receive Customer Information or Act on a Customer's Behalf*, which may be found at:

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf.

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
 - Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEMV Owner's Renewable Electric Generation Facility. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter Access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application¹² no later than March 31, 2018, or
- (d) the Owner 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. Owner 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.

Document and Fee Requirements

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

² 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

Stale Agreements

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

Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (7) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including completed Appendices A, B and C.** *Please note:* the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E-20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the

³ The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>

Applicability Section of NEMV, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.

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

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility 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.

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

- ☐ I **have** insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEMV Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

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

5. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**
6. Schedule NEMV may include charges where applicable, including but not limited to that in Special Conditions: 1 (metering), 2 (one-time set-up or modification charges) and/or 3 (demand credit set-up charges).
7. **Appendix C Site Assessment Documentation** as described in the cover sheet for Appendix C.

Internet Agreement Forms

If this Agreement has been completed electronically, it may be submitted to PG&E via e-mail or through PG&E's online portal when it becomes available. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be emailed (with all aforementioned documents scanned and included as attachments) to PG&E at the address noted in Part V Section G, "Notices".

Part IV – General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

☐ Yes

If **yes**, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate	☐ Meter located inside of facility/residence
☐ Unrestrained animal at meter or AC disconnect switch location	☐ Other (Please explain) _____

☐ No

D. Are any of your accounts on a Demand Response program?

Qualified Customers are eligible for the same demand response programs and solar tariffs as NEM customers. Demand response payments to Qualified Customers will be based on the Qualified Customer's metered usage disregarding any contributions from virtually net-metered generation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) should also exclude from consideration any impacts of NEMV generation.

☐ Yes

If yes, what program are you on? _____

☐ No.

E. Generator Interconnection Tie-in Point – Does your interconnection satisfy PG&E's Meter Standards (Appendix C of this Agreement)?

☐ Yes

☐ No. Reason: _____

If after review of a customer's NEMV application PG&E determines a site assessment is essential, then PG&E may conduct a site assessment. Please note that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.

F. Are you planning to meet the requirements specified in the PG&E Greenbook (current reference is "VNEM Installation Requirements", Utility Bulletin TD6999B-005, 02/06/2012)?

☐ Yes

☐ No. Reason: _____

G. Where are you planning to tie in? Can you provide Switchgear cutsheets, detailing the proposed point of connection and bussing modification / clearances, cutsheets of the NGOM socket, to clearly identify proposed tie-in point?

Location: _____

H. Is the currently proposed tie-in point a result of restrictions placed on altering the existing panel or equipment within, as imposed by the local authority having jurisdiction?

☐ Yes - What restriction? _____

☐ No.

I. Have you confirmed the Ampere Interrupting capacity (AIC) rating of the existing panel?

☐ Yes

☐ No. Reason: _____

J. Is the account located within a PG&E secondary "network" system?

(Note: PG&E does not allow exporting generators to connect to secondary network systems. Portions of San Francisco and Oakland, where PG&E has a network grid. Customers seeking generator interconnections in San Francisco and Oakland must contact PG&E before beginning any work. See Section II above for more details.)

☐ Yes.

☐ No.

K. Are there existing PG&E gas or other utility's facilities in the vicinity of the proposed point of interconnection?
(Note: Minimum clearances must be maintained from PG&E facilities, as specified in PG&E's Greenbook)

- ☐ Yes - Describe: _____
- ☐ No.

L. Are you going to require PG&E to arrange to de-energize the service panel for you to safely connect the generator to the service panel?

(Note: that the de-energizing process may be as simple as a PG&E Troubleman opening a switch, or as involved as a PG&E crew performing switching, and rearrangement of service wires, and coordinating with neighboring customers that might be impacted by this de-energizing project. **PG&E requires ten (10) business days advance notice prior to performing such a request.**)

- ☐ Yes - Describe: _____
- ☐ No.

M. Can this de-energizing of the service panel be done during normal business hours?

- ☐ Yes
- ☐ No. If not, what time of the week and time of the day do you request this service disconnection to occur?

Mon Tues Wed Thu Fri Sat Sun
(circle day of week)

 : AM / PM
(enter time & circle AM or PM)

Note- the time of de-energizing the service panel will also depend on whether other customers are impacted and their input to the process.

N. What is the duration of the service disconnection requested?

Duration _____

O. Do you need PG&E personnel to stand by while you perform your work?

- ☐ Yes
- ☐ No

P. Will you need to obtain clearance from the local authority having jurisdiction prior to PG&E re-energizing the service panel?

(Note: Some cities/counties require that they have inspected the panel prior to reenergizing. You will need to provide proof of the local authority that your work will not require such approval, or be prepared to provide that to PG&E prior to PG&E re-energizing the panel).

- ☐ Yes
- ☐ No

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

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ⁴ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

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

No.	PV Panel Manufacturer	PV Panel Model	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity ⁵ (kW)	Inverter number from (B.) above (1 or 2)
1						
2						

D. Wind Turbine Equipment (if applicable)

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

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating kW (per unit) ⁶	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁷	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

E. Service Panel Short Circuit Interrupting Rating

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

F. Maximum 3-Phase Fault Current Contribution

What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault). _____ Amps

⁴ The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

⁵ The total capacity is the PV panel rating times the quantity.

⁶ For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

⁷ The total capacity is the PV panel (or wind turbine) rating times the quantity.

G. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be e-mailed, along with the required attachments, to the email address below. Any applicable fee payments shall be mailed to:

Payment USPS Mail	Payment Overnight Mail
USPS Mail: PG&E CFM/PPC Department P.O. Box 997340 Sacramento, CA 95899-7340	Overnight Mail: PG&E/Customer Fund Management Payment Processing Center 885 Embarcadero Drive West Sacramento, CA 95605

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to NEMVGen@pge.com

H. Governing Law

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

I. Term of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. 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 Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMV.

J. Governing Authority

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

K. Appendix A, Appendix B and Appendix C

Attached to this agreement are:

- *Appendix A - Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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

Appendix A – Designation of NEMV Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

Project Identification Number _____ (for PG&E's use only)

Section 1 Instructions

- a. Complete the section below (this information must match the Owner information on the associated *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Serving Multi-Tenant And Multi-Meter Property* for the same NEMV Renewable Electric Generation Facility.

Owner Name	Address	Date

- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 2 or 3(g)?

- ☐ This application is for an allocation for the initial, new NEMV Arrangement:
- ☐ This application is for a reallocation for an existing NEMV Arrangement:

- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEMV tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
 Is this a reallocation of an existing NEMV Arrangement? __ Yes __ N

Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load

Project Identification Number _____
(for PG&E's use only)

Address of Generator _____

In accordance with Schedule NEMV, I, Owner warrant that:

- 1) the Generator Account associated with this NEMV agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEMV Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all or the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____

Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E GIS contact information when sending this form to Applicant].

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

Note: If after review of a customer's NEMV application PG&E determines a site assessment is needed, then PG&E may conduct a site assessment. Owners are reminded that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.



Electric Sample Form No. 79-1131-02
NEM2V Application and Interconnection Agreement for a Solar (PV)
or Wind Generating Facility of 1 MW or Less

Sheet 1

**Please Refer to Attached
Sample Form**



Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less



Project Identification Number _____ (for PG&E's use only)

Please note: This agreement does not constitute an application for rebate and/or incentive programs. For more information on these programs, please visit the program website at the links provided below.

- California Solar Initiative (CSI): www.pge.com/csi
- Self-Generation Incentive Program (SGIP): www.pge.com/sgip

requirements of all eligible Benefitting Accounts (as defined in Schedule NEM2V) of the past year (Renewable Electric Generation Facility) that is on a single Premises, as defined in Electric Rule 1¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEM2V, that meets all the applicability requirements in Schedule NEM2V, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Electric System.

The purpose of this Agreement is to allow the Owner to interconnect the Renewable Electric Generation Facility with PG&E's Electric System, subject to the provisions of this Agreement and PG&E's Rate Schedule NEM2V. Owner has elected to interconnect and operate its Renewable Electric Generation Facility in parallel with PG&E's Electric System, primarily to offset part or all of the NEM2V Arrangement's own electrical requirements of the Benefitting Accounts at the affiliated service on a as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

Note: If this application is for a Renewable Electric Generation Facility with a generator type that is other than solar (PV) and wind covered in Schedule NEM2V, please use Application "Rule 21 Generator Interconnection Application" (Form 79-1174-02).

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E to initiate PG&E's interconnection review of the proposed Generating Facility.

¹ From Electric Rule2, a PREMISES is defined as all of the real property and apparatus employed in a single enterprise on an integral parcel of land undivided, excepting in the case of industrial, agricultural, oil field, resort enterprises, and public or quasi-public institutions, by a dedicated street, highway or public thoroughfare or railway. Automobile parking lots constituting a part of and adjacent to a single enterprise may be separated by an alley from the remainder of the Premises served..



NEM2V

Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less

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

- ☐ A New NEM2V Renewable Electric Generation Facility interconnection (at an existing service).
- ☐ For Physical/Electrical Changes to an interconnected NEM2V Renewable Electric Generation Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEM2V interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Eligible Energy Generation Credits under NEM2V for an Existing Renewable Electric Generation Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEM2V accounts.

Special Condition 6 of Schedule NEM2V requires that any Customer with an existing generating facility and meter who enters into a new NEM2V agreement shall complete and submit a copy of Form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

D. Owner's Renewable Electric Generation Facility Information - Where will the Generating Facility be installed?

Name shown on Owner's PG&E service account (Must Match Owner's Name on PG&E Energy Bill)			
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Home Phone	Fax	Email

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

Contractor	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			



F. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Renewable Electric Generation Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements that may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the *Authorization to Receive Customer Information or Act on a Customer's Behalf (Form 79-1095)*, which may be found at:

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf.

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

Owner must not operate their Renewable Electric Generation Facility in parallel with PG&E's Electric System until they receive written authorization for Parallel Operation from PG&E. Unauthorized Parallel Operation could result in injury to persons and/or damage to equipment and/or property for which the Owner may be liable.

Safe Operation of the Renewable Electric Generation Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEM2V Owner's Renewable Electric Generation Facility. **Please contact Electric Generation Interconnection by email nemvgen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter Access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application² no later than March 31, 2018, or
- (d) the Owner 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. Owner replacing an "existing inverter" certifies it is being replaced with either:

- (i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or

² 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

- (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.

Document and Fee Requirements

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

Stale Agreements

If this agreement is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEM2V.

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.

Interconnection Fees

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.

A. Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Electric System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request emailing nemvgen@pge.com, or visiting PG&E's website at www.pge.com/gen. **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (7) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including completed Appendices A, B and C**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E-20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Electric System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEM2V Eligible Renewable Electric Generation Facility and utility's Electric System.



- b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEM2V customers may be able to combine the generator output meter with an incentive meter. See Schedule NEM2V for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings on a single Premises that will be included as part of the NEM2V Arrangement that is located on a single Premises and satisfies the requirements in the Applicability Section of NEM2V, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEM2V Generating Facility location:
- Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility 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.
- ☐ To the extent that Owner has currently in force property insurance and commercial general liability or personal liability insurance, Owner agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. Pacific Gas and Electric Company shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation. As long as Owner meets the requirements of this section, Owner shall not be required to purchase any additional liability insurance.
- ☐ I **have** insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEM2V Generating Facility location.
- Insuring Company's Name: _____
- Insurance Policy # _____
- ☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule NEM2V Generating Facility location.
5. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**

³ The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>



6. Schedule NEM2V may include charges where applicable, including but not limited to that in Special Conditions: 1 (metering), 2 (one-time set-up or modification charges) and/or 3 (demand credit set-up charges).
7. **Appendix C Site Assessment Documentation** as described in the cover sheet for Appendix C.

Internet Agreement Forms

If this Agreement has been completed electronically, it may be submitted to PG&E via e-mail or through PG&E's online portal when it becomes available. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be emailed (with all aforementioned documents scanned and included as attachments) to PG&E at the address noted in Part V Section G, "Notices".

Part IV – General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

☐ Yes

If yes, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

☐ Yes If yes, check all that apply:

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

D. Are any of your accounts on a Demand Response program?

Qualified Customers are eligible for the same demand response programs and solar tariffs as NEM customers. Demand response payments to Qualified Customers will be based on the Qualified Customer's metered usage disregarding any contributions from virtually net-metered generation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) should also exclude from consideration any impacts of NEM2V generation.

☐ Yes **If yes**, what program are you on? _____

☐ No.

E. Generator Interconnection Tie-in Point – Does your interconnection satisfy PG&E's Meter Standards (Appendix C of this Agreement)?

☐ Yes

☐ No. Reason: _____

If after review of a customer's NEM2V application PG&E determines a site assessment is essential, then PG&E may conduct a site assessment. Please note that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.

F. Are you planning to meet the requirements specified in the PG&E Greenbook (current reference is "VNEM Installation Requirements", Utility Bulletin TD6999B-005, 02/06/2012)?

☐ Yes

☐ No. Reason: _____



G. Where are you planning to tie in? Can you provide Switchgear cutsheets, detailing the proposed point of connection and bussing modification / clearances, cutsheets of the NGOM socket, to clearly identify proposed tie-in point?

Location: _____

H. Is the currently proposed tie-in point a result of restrictions placed on altering the existing panel or equipment within, as imposed by the local authority having jurisdiction?

- ☐ Yes - What restriction? _____
- ☐ No.

I. Have you confirmed the Ampere Interrupting capacity (AIC) rating of the existing panel?

- ☐ Yes
- ☐ No. Reason: _____

J. Is the account located within a PG&E secondary "network" system?

(Note: PG&E does not allow exporting generators to connect to secondary network systems. Portions of San Francisco and Oakland, where PG&E has a network grid. Customers seeking generator interconnections in San Francisco and Oakland must contact PG&E before beginning any work. See Section II above for more details.)

- ☐ Yes.
- ☐ No.

K. Are there existing PG&E gas or other utility's facilities in the vicinity of the proposed point of interconnection?

(Note: Minimum clearances must be maintained from PG&E facilities, as specified in PG&E's Greenbook)

- ☐ Yes - Describe: _____
- ☐ No.

L. Are you going to require PG&E to arrange to de-energize the service panel for you to safely connect the generator to the service panel?

(Note: that the de-energizing process may be as simple as a PG&E Troubleshooter opening a switch, or as involved as a PG&E crew performing switching, and rearrangement of service wires, and coordinating with neighboring customers that might be impacted by this de-energizing project. **PG&E requires ten (10) business days advance notice prior to performing such a request.**)

- ☐ Yes - Describe: _____
- ☐ No.

M. Can this de-energizing of the service panel be done during normal business hours?

- ☐ Yes
- ☐ No. If not, what time of the week and time of the day do you request this service disconnection to occur?

Mon Tues Wed Thu Fri Sat Sun
(circle day of week)

 : AM / PM
(enter time & circle AM or PM)

Note- the time of de-energizing the service panel will also depend on whether other customers are impacted and their input to the process.

N. What is the duration of the service disconnection requested?

Duration _____



O. Do you need PG&E personnel to stand by while you perform your work?

- ☐ Yes
☐ No

P. Will you need to obtain clearance from the local authority having jurisdiction prior to PG&E re-energizing the service panel?

(Note: Some cities/counties require that they have inspected the panel prior to reenergizing. You will need to provide proof of the local authority that your work will not require such approval, or be prepared to provide that to PG&E prior to PG&E re-energizing the panel).

- ☐ Yes
☐ No

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

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ⁴ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

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

No.	PV Panel Manufacturer	PV Panel Model	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity ⁵ (kW)	Inverter number from (B.) above (1 or 2)
1						

⁴ The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

⁵ The total capacity is the PV panel rating times the quantity.



2						

D. Wind Turbine Equipment (if applicable)

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

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating kW (per unit) ⁶	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁷	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

E. Service Panel Short Circuit Interrupting Rating

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

F. Maximum 3-Phase Fault Current Contribution

What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault). _____ Amps

G. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be e-mailed, along with the required attachments, to the email address below. Any applicable fee payments shall be mailed to:

Payment USPS Mail	Payment Overnight Mail
USPS Mail: PG&E CFM/PPC Department P.O. Box 997340 Sacramento, CA 95899-7340	Overnight Mail: PG&E/Customer Fund Management Payment Processing Center 885 Embarcadero Drive West Sacramento, CA 95605

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to NEMVGen@pge.com

H. Governing Law

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

I. Term of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. 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 Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEM2V.

⁶ For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

⁷ The total capacity is the PV panel (or wind turbine) rating times the quantity.



J . Governing Authority

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

K . Warranties or Service Agreements

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.

L. Appendix A, Appendix B and Appendix C

Attached to this agreement are:

- *Appendix A - Designation of NEM2V Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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



NEM2V

Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less

Appendix A – Designation of NEM2V Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

Project Identification Number _____ (for PG&E's use only)

Section 1 Instructions

- a. Complete the section below (this information must match the Owner information on the associated *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Serving Multi-Tenant And Multi-Meter Property* for the same NEM2V Renewable Electric Generation Facility.

Owner Name	Address	Date

- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEM2V Arrangement or for a change to the Allocation for an existing NEM2V facility, as described in either NEM2V Special Condition 2 or 3(g)?
- ☐ This application is for an allocation for the initial, new NEM2V Arrangement:
- ☐ This application is for a reallocation for an existing NEM2V Arrangement:
- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEM2V. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable single Premises requirements in the NEM2V Applicability Section to be Eligible for Schedule NEM2V.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefiting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEM2V Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEM2V Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** "system operator/qualified customer" has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEM2V tariff this is referred to as the "Default Account."
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

NEM2V

Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEM2V Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
 Is this a reallocation of an existing NEM2V Arrangement? ☐ Yes ☐ N



Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load

Project Identification Number _____
(for PG&E's use only)

Address of Generator _____

In accordance with Schedule NEM2V, I, Owner warrant that:

- 1) the Generator Account associated with this NEM2V agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEM2V Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all of the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____



Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E EGI contact information when sending this form to Applicant].

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

Note: If after review of a customer's NEM2V application PG&E determines a site assessment is needed, then PG&E may conduct a site assessment. Owners are reminded that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.



Electric Sample Form 79-1137

Sheet 1

Interconnection Agreement for Net Metering for a Renewable Electrical
Generation Facility of 1,000 kW or Less, Except Solar Or Wind

**Please Refer to Attached
Sample Form**



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

This *Interconnection Agreement for Net Energy Metering for a Renewable Electrical Generation Facility of 1,000 kW or Less, Except Solar Or Wind* (Agreement)¹ 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

- 1.1 This Agreement provides for Customer-Generator to interconnect and operate a Renewable Electrical Generation Facility as defined in Schedule NEM (if this is a NEM Solar or Wind Generating Facility, please use form 79-978) (Generating Facility) in parallel with PG&E's Distribution System to serve the electrical loads connected to the electric service account 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 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 account used to interconnect the Generating Facility with PG&E's Distribution System:
- Name: _____
- Address: _____
- City/Zip Code: _____

¹ Additional forms are available on PG&E's website at <http://www.pge.com/gen>.

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

- 2.5 Customer-Generator's otherwise-applicable rate schedule as of the execution of this Agreement is _____.
- 2.6 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.
- 2.7 The Gross Nameplate Rating of the Generating Facility: _____ kW.
- 2.8 The Net Nameplate Rating of the Generating Facility: _____ kW.
- 2.9 The expected annual energy production of the Generating Facility is _____ kWh.
- 2.10 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 application² 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.

² A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments, (continued next page)
- 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 FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

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 <i>PG&E's Agreement for Installation or Allocation of Special Facilities</i> (Forms 79-255, 79-280, 79-702) or <i>Agreements to Perform Any Tariff Related Work</i> (62-4527), if applicable (Formed by the Parties).
Appendix C	Schedule NEM / NEMV 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 D	NEM Load Aggregation Customer-Generator Declaration Warranting NEM 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 NEM, and Customer-Generator's otherwise-applicable rate schedule, available at PG&E's website at 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 G.1.m.

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 account through which Customer-Generator's Generating Facility is interconnected to PG&E is closed or terminated.

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

- (c) At 12:01 A.M. on the 61st 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.

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

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

completed *Generating Facility Interconnection Application for Non-Export or Certain Net Energy Metered Generating Facilities (Between 30 kW and 1000 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 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 an 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, the following insurance shall apply:

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

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.

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 or fax to the following:

Pacific Gas and Electric Company
c/o EXIGIS LLC
support@exigis.com
Fax: 646-755-3327

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

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: Generation Interconnection Services- Contract
Management
245 Market Street
Mail Code N7L
San Francisco, California 94105-1702

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.

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.

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

- 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.

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 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.



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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.

	PACIFIC GAS AND ELECTRIC COMPANY
Customer-Generator's Name	
Authorized by (Print)	Authorized by (Print)
Signature	Signature
Title	Title
Date	Date



INTERCONNECTION AGREEMENT FOR NET
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APPENDIX A
DESCRIPTION OF GENERATING FACILITY
AND SINGLE-LINE DIAGRAM
(Provided by Customer-Generator)



INTERCONNECTION AGREEMENT FOR NET
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ELECTRICAL GENERATION FACILITY OF
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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 FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

Appendix C

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 or NEMV 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:

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

NEM / NEMV 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.³ (Eligibility Requirements).

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).

³ The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

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

☐ Eligible Customer-Generator warrants that the Renewable 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 sole 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 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 Eligible Customer-Generator to monitor the Generating Facility's compliance with the Eligibility Requirements. If PG&E determines at its sole 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 sole 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 NEM or NEMV, 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: _____



INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

Appendix D

NEM LOAD AGGREGATION APPENDIX

(If Applicable)

Customer-Generator Declaration Warranting NEM Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel

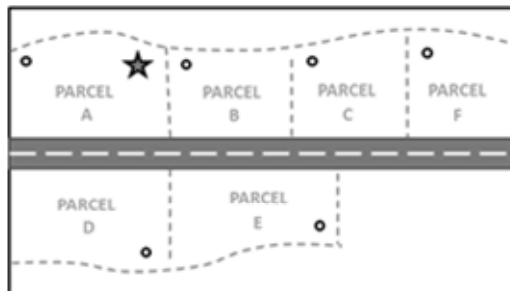
In accordance with Schedule NEM, I, Customer-Generator represent and warrant under penalty of perjury that:

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 NEM 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.



★ = RENEWABLE ELECTRICAL GENERATING FACILITY
○ = METER
□ = ELIGIBLE

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 NEM Special Condition 6 including but not limited to parcel maps and ownership records.

Customer Generator's Name

Signature

Date

Type/Print Name

Title



ELECTRIC SAMPLE FORM 79-1142
NEMV INTERCONNECTION APPLICATION FOR A RENEWABLE
ELECTRICAL GENERATION FACILITY OF 1 MEGAWATT OR LESS

Sheet 1

**Please Refer to Attached
Sample Form**



Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less



Project Identification Number _____ (for PG&E's use only)

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

Please note: This Application does not constitute an application for rebate and/or incentive programs. For more information on these programs, please visit the program website at the links provided below.

- California Solar Initiative (CSI): www.pge.com/csi
- Self-Generation Incentive Program (SGIP): www.pge.com/sgip

other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEMV, that meets all the applicability requirements in Schedule NEMV, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System.

The purpose of this Application is to allow the Owner to apply for the interconnect the Renewable Electric Generation Facility with PG&E's Distribution System, subject to the provisions of this Application and PG&E's rate schedule NEMV. Owner has elected to interconnect and operate its Renewable Electric Generation Facility in parallel with PG&E's Distribution System, primarily to offset part or all of the NEMV Arrangement's own electrical requirements of the Benefitting Accounts at the affiliated service delivery point as listed in Appendix A. Owner shall comply at all times with this Application as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

Note: If this application is for a Renewable Electric Generation Facility with a generator type that is solar (PV) and/or wind, please use Application form 79-1131.

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E along with a completed Supplemental Data Collection Form for Net Energy Metered Generating Facilities to initiate PG&E's interconnection review of the proposed Generating Facility.

C. NEM Transition

Customers receiving service on the current NEMV 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 Schedules NEM and NEMV at https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEM.pdf and https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEMV.pdf for more details.

¹ Customer-owned line extensions that deliver power to other meters on the same property are not considered separate Service Delivery Points.

D. Description of Service (this Application is being filed for, check all that apply):

- ☐ A New NEMV Renewable Electric Generation Facility interconnection (at an existing service).
- ☐ For Physical/Electrical Changes to an interconnected NEMV Renewable Electric Generation Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEMV interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Eligible Energy Generation Credits under NEMV for an Existing Renewable Electric Generation Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEMV accounts.

Special Condition 6 of Schedule NEMV requires that any Customer with an existing generating facility and meter who enters into a new NEMV Agreement (Form 79-1137) shall complete and submit a copy of form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

E. Owner's Renewable Electric Generation Facility Information - Where will the Generating Facility be installed?

Name shown on Owner's PG&E service account (Must Match Owner's Name on PG&E Energy Bill)			
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Home Phone	Fax	Email

F. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contractor	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this Application.			

G. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this Application.			

By checking the boxes above and signing this Application, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Renewable Electric Generation Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this Application is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements that may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the "Authorization to Receive Customer Information or Act on a Customer's Behalf", which may be found at: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

Notwithstanding any other provision of this Application, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEMV Owner's Renewable Electric Generation Facility. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip**

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

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Form 79-1142
Advice 4295-G-B/5920-E-B
January 2021

code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.

Meter access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application¹² no later than March 31, 2018, or
- (d) the Owner 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. Owner 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.

Document and Fee Requirements

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

² 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

Please complete this agreement in its entirety

Stale Applications

If this Application is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEMV.

A. Application Package:

These documents are needed at the time of application to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the Application package to PG&E.** As PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Application, including completed Appendices A, B and C as well as the Supplemental Data Collection Form (see Part I Section B above)**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Application, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)**, if any, used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the generator manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified equipment will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote below). For generator equipment that is not CEC certified, Applicant may need to provide additional information and/or documentation at PG&E's request.
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the

³ The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>
Please complete this agreement in its entirety

Applicability Section of NEMV, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.

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

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility 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.

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

☐ I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEMV Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

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

5. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's Application package will not be complete until PG&E receives this document.**
6. Schedule NEMV may include charges where applicable, including but not limited to that in Special Conditions 1 (metering), 2 (one-time set-up or modification charges), and/or 3 (demand credit set-up charges).
7. **Appendix C, Site Assessment Documentation-** as described in the cover sheet for Appendix C.

Internet Application Forms

If this Application has been completed electronically, it may be submitted to PG&E via e-mail or through PG&E's online portal when it becomes available. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be emailed (with all aforementioned documents scanned and included as attachments) to PG&E at the address noted in Part V Section E, "Notices".

Part IV – General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

☐ Yes

If **yes**, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate	☐ Meter located inside of facility/residence
☐ Unrestrained animal at meter or AC disconnect switch location	☐ Other (Please explain) _____

☐ No

D. Are any of your accounts on a Demand Response program?

(Qualified Customers are eligible for the same demand response programs and solar tariffs as NEM customers. Demand response payments to Qualified Customers will be based on the Qualified Customer's metered usage disregarding any contributions from virtually net-metered generation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) should also exclude from consideration any impacts of NEMV generation.)

☐ Yes

If yes, what program are you on? _____

☐ No.

E. Generator Interconnection Tie-in Point – Does your interconnection satisfy PG&E's Meter Standards (Appendix C of this Application)?

☐ Yes

☐ No. Reason: _____

If after review of a customer's NEMV application PG&E determines a site assessment is essential, then PG&E may conduct a site assessment. Please note that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.

F. Are you planning to meet the requirements specified in the PG&E Greenbook (current reference is "VNEM Installation Requirements", Utility Bulletin TD6999B-005, 02/06/2012)?

☐ Yes

☐ No. Reason: _____

G. Where are you planning to tie in? Can you provide Switchgear cutsheets, detailing the proposed point of connection and bussing modification / clearances, cutsheets of the NGOM socket, to clearly identify proposed tie-in point?

Location: _____

H. Is the currently proposed tie-in point a result of restrictions placed on altering the existing panel or equipment within, as imposed by the local authority having jurisdiction?

☐ Yes - What restriction? _____

☐ No.

I. Have you confirmed the Ampere Interrupting capacity (AIC) rating of the existing panel?

☐ Yes

☐ No. Reason: _____

J. Is the account located within a PG&E secondary "network" system?

(Note: PG&E does not allow exporting generators to connect to secondary network systems. Portions of San Francisco and Oakland, where PG&E has a network grid. Customers seeking generator interconnections in San Francisco and Oakland must contact PG&E before beginning any work. See Section II above for more details.)

☐ Yes.

☐ No.

K. Are there existing PG&E gas or other utility's facilities in the vicinity of the proposed point of interconnection?
(Note: Minimum clearances must be maintained from PG&E facilities, as specified in PG&E's Greenbook)

- ☐ Yes - Describe: _____
- ☐ No

L. Are you going to require PG&E to arrange to de-energize the service panel for you to safely connect the generator to the service panel?

(Note: that the de-energizing process may be as simple as a PG&E Troublemaker opening a switch, or as involved as a PG&E crew performing switching, and rearrangement of service wires, and coordinating with neighboring customers that might be impacted by this de-energizing project. **PG&E requires ten (10) business days advance notice prior to performing such a request.**)

- ☐ Yes - Describe: _____
- ☐ No.

M. Can this de-energizing of the service panel be done during normal business hours?

- ☐ Yes
- ☐ No. If not, what time of the week and time of the day do you request this service disconnection to occur?

Mon Tues Wed Thu Fri Sat Sun : AM / PM
(circle day of week) (enter time & circle AM or PM)

Note: The time of de-energizing the service panel will also depend on whether other customers are impacted and their input to the process.

N. What is the duration of the service disconnection requested?

Duration _____

O. Do you need PG&E personnel to stand by while you perform your work?

- ☐ Yes
- ☐ No

P. Will you need to obtain clearance from the local authority having jurisdiction prior to PG&E re-energizing the service panel?

(Note: Some cities/counties require that they have inspected the panel prior to reenergizing. You will need to provide proof of the local authority that your work will not require such approval, or be prepared to provide that to PG&E prior to PG&E re-energizing the panel.)

- ☐ Yes
- ☐ No

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

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

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

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

B. Generating Equipment

List all the equipment that will be interconnected to PG&E for this NEMV Arrangement:

1. Generation Equipment Detailed Description

NEMV Type of Generation Equipment - Table B.1 (see row 2 below)		
1. biomass	2. geothermal	3. municipal solid waste
4. solar thermal	5. fuel cell	6. landfill gas
7. small hydroelectric generation	8. ocean wave	9. digester gas
10. ocean thermal	11. tidal current	

Generating Equipment Description - Table B.2						
		Generator type 1	Generator Type 2	Generator Type 3	Generator Type 4	Generator Type 5
a	Is the Generator new or existing	☐ New ☐ Existing	☐ New ☐ Existing	☐ New ☐ Existing	☐ New ☐ Existing	☐ New ☐ Existing
b	Number of Type of NEMV generation (from Table B.1)					
c	Please indicate the quantity of each "type" of Generators being installed:					
d	Generator Manufacturer					
e	Generator Model					
f	Is the Generator CEC certified?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
g	Generator Design	☐ Synchronous ☐ Induction ☐ Inverter	☐ Synchronous ☐ Induction ☐ Inverter	☐ Synchronous ☐ Induction ☐ Inverter	☐ Synchronous ☐ Induction ☐ Inverter	☐ Synchronous ☐ Induction ☐ Inverter
h	Generator Gross Nameplate Rating					
i	Generator Operating Voltage					
j	Inverter (if any) Manufacturer					
k	Inverter (if any) Model					
l	Is the Inverter (if any) CEC certified?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
m	Inverter (if any) Gross Nameplate Rating					
n	Inverter (if any) Generator Operating Voltage					
o	Power Factor rating (if applicable)					
p	PF Adjustment Range (if applicable)					

2. Generator Account's otherwise-applicable rate schedule under the provisions of Schedule NEMV will be _____.

3. 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: _____.

4. The expected annual energy production of the Generating Facility is _____ kWh.

C. Service Panel Short Circuit Interrupting Rating

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

D. Maximum 3-Phase Fault Current Contribution

What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault). _____ Amps

E. Notices - Mailing Instructions and Assistance:

When this Application has been completed it should be e-mailed, along with the required attachments, to the email address below. Any applicable fee payments shall be mailed to:

Payment USPS Mail	Payment Overnight Mail
USPS Mail: PG&E CFM/PPC Department P.O. Box 997340 Sacramento, CA 95899-7340	Overnight Mail: PG&E Customer Fund Management Payment Processing Center 885 Embarcadero Drive West Sacramento, CA 95605

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to NEMVGen@pge.com

F. Governing Law

This Application 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.

G. Term of Application

After receipt of all applicable fees, required documents, and this completed Application, this Application shall become effective on the date of PG&E issues the permission to operate letter. This Application 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 Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMV.

H. Governing Authority

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

I. Appendix A, Appendix B and Appendix C

Attached to this Application are:

- *Appendix A - Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B –Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

A copy of this signed Application should be retained with the "Permission to Operate" letter to confirm project approval.

Appendix A – Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation

Project Identification Number _____ (for PG&E's use only)

Section 1 Instructions

- 1) Complete the section below (this information must match the Owner information on the attached Application).

Owner Name	Address	Date

- 2) Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 2 or 3(g)?

- ☐ This application is for an allocation for the initial, new NEMV Arrangement
- ☐ This application is for a reallocation for an existing NEMV Arrangement:

- 3) Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to Rule21gen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEMV tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for this instruction page). Also indicate on one of the pages if the allocation is for a new Arrangement, or an existing Arrangement.

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
 Is this a reallocation of an existing NEMV Arrangement? ☐ Yes ☐ N

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load

Project Identification Number _____
(for PG&E's use only)

Address of Generator _____

In accordance with Schedule NEMV, I, Owner warrant that:

- 1) the Generator Account associated with this NEMV Application is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEMV Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all or the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____

Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E GIS contact information when sending this form to Applicant.]

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below)
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

Note: If after review of a customer's NEMV application PG&E determines a site assessment is needed, then PG&E may conduct a site assessment. Owners are reminded that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

Revised
Cancelling Revised

Cal. P.U.C. Sheet No. 48281-E
Cal. P.U.C. Sheet No. 47128-E

Electric Sample Form 79-1145
Rule 21 Exporting Generator
Interconnection Request

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5920-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

<i>Submitted</i>	<u>January 8, 2021</u>
<i>Effective</i>	<u>August 18, 2020</u>
<i>Resolution</i>	<u></u>

PG&E'S RULE 21 EXPORTING GENERATOR INTERCONNECTION REQUEST

1. The undersigned Applicant submits this request to interconnect its Generating Facility with the Pacific Gas and Electric Company (PG&E or Distribution Provider) Distribution System pursuant to Rule 21 (check only one):

☐ Detailed Study Process
☐ Fast Track Process

2. This Interconnection Request is for (check only one):

☐ A proposed new Generating Facility.
☐ An increase in the generating capacity or a Material Modification of an existing Generating Facility.

3. Applicant provides the following information:

- a. Address (to the extent known) or location, including the county, of the proposed new Generating Facility site or, in the case of an existing Generating Facility, the name and specific location, including the county, of the existing Generating Facility;

Project Name:

Project Location:

Street Address:

City, State:

County:

Zip Code:

GPS Coordinates:

- b. Maximum net megawatt electrical output (as defined by section 2.c. of Attachment A to this appendix) of the proposed new Generating Facility or the amount of net megawatt increase in the generating capacity of an existing Generating Facility;

Maximum net megawatt electrical output (MW): _____ or

Net Megawatt increase (MW): _____

- c. Type of project (i.e., gas turbine, hydro, wind, etc.) and general description of the equipment configuration (if more than one type is chosen, include net MW for each);

_____ Cogeneration	_____ MW
_____ Reciprocating Engine	_____ MW
_____ Biomass	_____ MW

PG&E'S RULE 21
EXPORTING GENERATOR INTERCONNECTION REQUEST

____ Steam Turbine _____ MW
____ Gas Turbine _____ MW
____ Wind _____ MW
____ Hydro _____ MW
____ Inverter Based: (e.g., Photovoltaic, Fuel Cell) _____ MW
 If Fuel Cell, please describe primary fuel source:
____ Combined Cycle _____ MW
____ Other (please describe): _____

- d. Proposed In-Service Date, and Other Key Dates (Day/Month/Year) (Dates must be sequential)

Proposed In-Service Date: / /
Proposed Trial Operation Date: / /
Proposed Commercial Operation Date: / /
Proposed Term of Service (years): _____

- e. Name, address, telephone number, and e-mail address of Applicant (primary person who will be contacted);

Name:
Title:
Company Name:
Street Address:
City, State:
Zip Code:
Phone Number:
Fax Number:
Email Address:

- f. Approximate location of the proposed Point of Interconnection (i.e., specify distribution facility interconnection point name, voltage level, and the location of interconnection);

- g. Applicant Data (set forth in Attachment A)

The Applicant shall provide to the Distribution Provider the technical data called for in Attachment A.

- h. AC Disconnect Switch. List the AC disconnect switch that will be used at this Generating Facility (enter "N/A" if not applicable)

PG&E'S RULE 21 EXPORTING GENERATOR INTERCONNECTION REQUEST

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

4. Application Fee and Detailed Study Deposit as specified in Rule 21 is required to complete this application. Upon receipt of this Interconnection Request and Attachment A, PG&E will send a separate invoice for the applicable fee or deposit. **PLEASE DO NOT INCLUDE ANY CHECKS/MONIES WITH THIS INTERCONNECTION REQUEST.** (Any checks/monies submitted with this IR will be returned to the sender and may result in a delay in the application process.)
5. Attach evidence of Site Exclusivity as specified in Rule 21 Section E.2.d as applicable, and name(s), address(es) and contact information of site owner(s).
6. **Interconnection Request Instructions:** Complete this interconnection request and enter this information into PG&E's web-based form. (PG&E strongly recommends preparing all information and materials before starting the online interconnection request.) The online web-based form can be found at:

https://www.pge.com/en_US/large-business/services/alternatives-to-pge/electric-generation-interconnection.page

Questions concerning PG&E's online interconnection request process can be directed to the Electric Generation Interconnection Department at **rule21gen@pge.com..**

- 7 Representative of Applicant to contact:

[To be completed by Applicant]

Name:

Title:

Company Name:

Street Address:

City, State:

Zip Code:

Phone Number:

Fax Number:

Email Address:

8. If the Applicant also requires new Distribution Service, the Distribution Provider will coordinate these efforts with this application. The Applicant must also complete a PG&E

PG&E'S RULE 21
EXPORTING GENERATOR INTERCONNECTION REQUEST

Application for Service. 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's Building and Renovation Services Center (BRSC): 1-800-743-7782 to initiate the application for the new Distribution Service. Additional information will be required in conjunction with an application for new Distribution Service.

9. Applicant should be aware that if Applicant has not yet received Rule 21 Screen Q results from PG&E by March 15 following submittal of this IR, Applicant will need to submit, if Applicant voluntarily chooses to do so, an Interconnection Request under PG&E's FERC Wholesale Distribution Tariff (WDT) by the close of the CAISO cluster application window (refer to <http://www.caiso.com/docs/2002/06/11/2002061110300427214.html> for the exact date) in order to participate in the Transmission Cluster Study for the year. An application under WDT will not impact the results of this Rule 21 study.

10. 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.

11. This Interconnection Request is submitted by:

Legal name of Applicant: _____

By (signature): _____

Name (type or print): _____

Title: _____

Date: _____

PG&E'S RULE 21 EXPORTING GENERATOR INTERCONNECTION REQUEST

Attachment A to PG&E Rule 21 Exporting Generator Interconnection Request

GENERATING FACILITY DATA

Each Applicant will complete Sections 1 and 2 of this Attachment A.

Each Applicant will complete the applicable data in Sections 3 through 6 of this Attachment A based on the type of generating facility(ies) requesting interconnection. (Section 3 for synchronous generators, Section 4 for induction generators, Section 5 for wind turbine generators, and Section 6 for inverter-based generators).

Each Applicant will complete Sections 7 through 10, as applicable.

At any time, Distribution Provider may require Applicant to provide additional technical data, or additional documentation supporting the technical data provided, as deemed necessary by the Distribution Provider to perform Interconnection Studies, other studies, or evaluations as set forth under Rule 21.

1. Provide electronic copies of the following:

- A. Site drawing to scale, showing generator location and Point of Interconnection with the Distribution Provider's Distribution System.
- B. Single-line diagram showing applicable equipment such as generating units, step-up transformers, auxiliary transformers, switches/disconnects of the proposed interconnection, including the required protection devices and circuit breakers. For wind and photovoltaic generator projects, the one line diagram should include the distribution lines connecting the various groups of generating units, the generator capacitor banks, the step up transformers, the distribution lines, and the substation transformers and capacitor banks at the Point of Interconnection with the Distribution Provider's Distribution System. This one-line drawing must be signed and stamped by a licensed Professional Engineer if the Generating Facility is larger than 50 kW.
- C. AC and DC schematics if available. Required for detailed study process.
- D. Description of operations.

Note: Electronic processing is preferred, however, if submitting via U.S. mail, provide one original print of items in A through D, above.

2. Generating Facility General Information:

- A. Total Generating Facility rated output (MW): _____
- B. Generating Facility auxiliary Load (MW): _____
- C. Project net capacity (MW): _____
- D. Standby Load when Generating Facility is off-line (MW): _____
- E. Number of Generating Units: _____
(Please repeat the following items for each generator)
- F. Individual generator rated output (MW for each unit): _____
- G. Type (induction, synchronous, D.C. with inverter): _____
- H. Phase (3 phase or single phase): _____

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EXPORTING GENERATOR INTERCONNECTION REQUEST

3. Synchronous Generator –Information:

3A Generator Information:

(Please repeat the following for each generator)

- A. Manufacturer: _____
- B. Year Manufactured: _____
- C. Rated Generator speed (rpm): _____
- D. Rated MVA: _____
- E. Rated Terminal Voltage (kV): _____
- F. Rated Generator Power Factor Range: _____
- G. Generator Efficiency at Rated Load (%): _____
- H. Moment of Inertia (including prime mover): _____
- I. Inertia Time Constant (on machine base) H: _____ sec or MJ/MVA
- J. SCR (Short-Circuit Ratio - the ratio of the field current required for rated open-circuit voltage to the field current required for rated short-circuit current): _____
- K. Please attach generator reactive capability curves.
- L. Rated Hydrogen Cooling Pressure in psig (Steam Units only): _____
- M. Please attach a plot of generator terminal voltage versus field current that shows the air gap line, the open-circuit saturation curve, and the saturation curve at full load and rated power factor.

3B Excitation System Information:

(Please repeat the following for each generator)

- A. Indicate the Manufacturer _____ and Type _____ of excitation system used for the generator. For exciter type, please choose from 1 to 9 below or describe the specific excitation system.
 - (1) Rotating DC commutator exciter with continuously acting regulator. The regulator power source is independent of the generator terminal voltage and current.
 - (2) Rotating DC commutator exciter with continuously acting regulator. The regulator power source is bus fed from the generator terminal voltage.
 - (3) Rotating DC commutator exciter with non-continuously acting regulator (i.e., regulator adjustments are made in discrete increments).
 - (4) Rotating AC Alternator Exciter with non-controlled (diode) rectifiers. The regulator power source is independent of the generator terminal voltage and current (not bus-fed).

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- (5) Rotating AC Alternator Exciter with controlled (thyristor) rectifiers. The regulator power source is fed from the exciter output voltage.
 - (6) Rotating AC Alternator Exciter with controlled (thyristor) rectifiers.
 - (7) Static Exciter with controlled (thyristor) rectifiers. The regulator power source is bus-fed from the generator terminal voltage.
 - (8) Static Exciter with controlled (thyristor) rectifiers. The regulator power source is bus-fed from a combination of generator terminal voltage and current (compound-source controlled rectifiers system).
 - (9) Other (specify): _____
 - B. Attach a copy of the block diagram of the excitation system from its instruction manual. The diagram should show the input, output, and all feedback loops of the excitation system.
 - C. Excitation system response ratio (ASA): _____
 - D. Full load rated exciter output voltage: _____
 - E. Maximum exciter output voltage (ceiling voltage): _____
 - F. Other comments regarding the excitation system? _____
-

3C Turbine-Governor Information:

(Please repeat the following for each generator)

Please complete Part A for steam, gas or combined-cycle turbines, Part B for hydro turbines, and Part C for both.

A. Steam, gas or combined-cycle turbines:

- (1) List type of unit (Steam, Gas, or Combined-cycle): _____
- (2) If steam or combined-cycle, does the turbine system have a reheat process (i.e., both high and low pressure turbines)? _____
- (3) If steam with reheat process, or if combined-cycle, indicate in the space provided, the percent of full load power produced by each turbine:
 - Low pressure turbine or gas turbine: _____ %
 - High pressure turbine or steam turbine: _____ %
- (4) For combined cycle plants, specify the plant net output capacity (MW) for an outage of the steam turbine or an outage of a single combustion turbine: _____

B. Hydro turbines:

- (1) Turbine efficiency at rated load: _____ %
- (2) Length of penstock: _____ ft

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- (3) Average cross-sectional area of the penstock: _____ ft²
- (4) Typical maximum head (vertical distance from the bottom of the penstock, at the gate, to the water level): _____ ft
- (5) Is the water supply run-of-the-river or reservoir: _____
- (6) Water flow rate at the typical maximum head: _____ ft³/sec
- (7) Average energy rate: _____ kW-hrs/acre-ft
- (8) Estimated yearly energy production: _____ kW-hrs

C. Complete this section for each machine, independent of the turbine type.

- (1) Turbine manufacturer: _____
- (2) Maximum turbine power output: _____ MW
- (3) Minimum turbine power output (while on line): _____ MW
- (4) Governor information:
 - (a) Droop setting (speed regulation): _____
 - (b) Is the governor mechanical-hydraulic or electro-hydraulic (Electro-hydraulic governors have an electronic speed sensor and transducer.)? _____
 - (c) Other comments regarding the turbine governor system?

3D Short Circuit Duty Information:

For each generator, provide the following reactances expressed in p.u. on the generator base:

- X_d – Direct Axis Synchronous Reactance: _____ p.u.
- X'_d – Direct Axis Transient Reactance: _____ p.u.
- X''_d – Direct Axis Subtransient Reactance: _____ p.u.
- X₂ – Negative Sequence Reactance: _____ p.u.
- X₀ – Zero Sequence Reactance: _____ p.u.

Generator Grounding (select one for each model):

- A. _____ Solidly grounded
- B. _____ Grounded through an impedance
(Impedance value in p.u. on generator base. R: _____ p.u.
X: _____ p.u.)
- C. _____ Ungrounded

4. Induction Generator Information:

PG&E'S RULE 21 EXPORTING GENERATOR INTERCONNECTION REQUEST

(Please repeat the following for each generator)

- A. Motoring Power (kW): _____
- B. I_2^2t or K (Heating Time Constant): _____
- C. Rotor Resistance, R_r : _____
- D. Stator Resistance, R_s : _____
- E. Stator Reactance, X_s : _____
- F. Rotor Reactance, X_r : _____
- G. Magnetizing Reactance, X_m : _____
- H. Short Circuit Reactance, X_d'' : _____
- I. Exciting Current: _____
- J. Temperature Rise: _____
- K. Frame Size: _____
- L. Design Letter: _____
- M. Reactive Power Required In Vars (No Load): _____
- N. Reactive Power Required In Vars (Full Load): _____
- O. Total Rotating Inertia, H: _____ Per Unit on kVA Base

5. Wind Turbine Generator (WTG) Information:

(Proposed projects may include one or more WTG types. Please repeat the following for each type of WTG).

- A. WTG Manufacturer and Model: _____
- B. Number of WTGs: _____
- C. WTG Type (check one):
 - _____ Type 1 (Squirrel-cage induction generator)
 - _____ Type 2 (Wound rotor induction machine with variable rotor resistance)
 - _____ Type 3 (Doubly-fed asynchronous generator)
 - _____ Type 4 (Full converter interface)
- D. Nameplate Rating (each WTG): _____ / _____ kW/kVA
- E. Rated Terminal Voltage: _____ kV
- F. For Type 1 or Type 2 WTGs:
 - (1) uncompensated power factor at full load: _____
 - (2) power factor correction capacitors at full load: _____ MVAR
 - (3) number of shunt stages and size: _____
 - (4) Please attach capability curve describing reactive power or power factor range from no output to full rated output, including the effect of shunt compensation
- G. For Type 3 or Type 4 WTGs:
 - (1) Maximum under-excited power factor at full load: _____
 - (2) Maximum over-excited power factor at full load: _____
 - (3) Control mode: _____ (voltage control, fixed power factor)
 - (4) Please attach capability curve describing reactive power or power factor range from no output to full rated output

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EXPORTING GENERATOR INTERCONNECTION REQUEST

- H. Short Circuit Characteristics: Applicant to provide technical data related to the short circuit characteristics of proposed WTGs for short circuit duty study modeling purposes. For example, the applicant can provide manufacturer short circuit test data showing faulted condition for three phase and single-line-to-ground fault.

Distribution Provider may require testing verification of voltage and harmonic performance during commissioning test of WTG based generation projects.

6. Inverter Based Generation Systems Information:

Proposed inverter based generation projects may include one or more types of inverters. Please provide answers to the following for each type of inverter.

- A. Inverter Manufacturer and Model: _____
- B. Number of Inverters: _____
- C. Nameplate Rating (AC, each inverter): _____ / _____ kW
- D. Nameplate Voltage Rating (AC): _____ kV
- E. Maximum AC line current: _____ Amps
- F. Nameplate Power Factor Rating (AC): _____
- G. Please attach capability curve describing reactive power or power factor range from no output to full rated output
- H. Inverter control mode (e.g. voltage, power factor, reactive power): _____
- I. Short Circuit Characteristics: Applicant to provide technical data related to the short circuit characteristics of proposed inverter based generation systems. For example, the applicant can provide a sinusoidal waveform test data showing faulted condition at the AC side of the inverter for a three phase and single-line-to-ground fault.
- J. Harmonics Characteristics:
- (1) Inverter switching frequency: _____
- (2) Harmonic characteristics for each unit up to switching frequency: _____
- (3) Harmonic characteristics for aggregate generation facility: _____
- K. Inverter disconnection characteristics: Applicant to provide voltage sinusoidal waveform test data which shows the voltage characteristics during disconnection of inverter system from distribution system at 100% and at 50% of rated output.

Distribution Provider may require testing verification of voltage and harmonic performance during commissioning test of the inverter based generation systems.

7. Step-Up Transformer Data:

For each step-up transformer (e.g. main step-up transformers, padmount transformers), fill out the data form provided in Table 1.

PG&E'S RULE 21

EXPORTING GENERATOR INTERCONNECTION REQUEST

8. Plant-Level Reactive Power Compensation Data:

Provide the following information for plant-level reactive power compensation, if applicable:

- A. Number of individual shunt capacitor banks: _____
- B. Individual shunt capacitor bank rated voltage (kV): _____
- C. Individual shunt capacitor bank size (kVAR at rated voltage): _____
- D. Planned dynamic reactive control devices (SVC, STATCOM): _____
- E. Control range: _____ kVAR (lead) _____ kVAR (lag)
- F. Control mode (e.g. voltage, power factor, reactive power): _____
- G. Please provide the overall plant reactive power control strategy

9. Load Flow and Dynamic Models:

Only provide data in this section when requested by the Distribution Provider.

The WECC Data Preparation Manual for Power Flow Base Cases and Dynamic Stability Data has established power flow and dynamic modeling requirements for generation projects in WECC base cases. In general, if the aggregate sum of generation on a bus exceeds 10 MVA, it should not be netted. Furthermore, the total netted generation in an area should not exceed five percent of the area's total generation. Based on current WECC modeling requirements, the following information will be required for all generation projects whose net capacity is greater than 10 MVA. The following information may also be required for generation projects less than 10 MVA on a case-by-case basis, based on the amount of generation in the area of the requested Point of Interconnection.

- A. Provide load flow model for the generating plant and its interconnection facilities in GE PSLF *.epc format, including new buses, generators, transformers, interconnection facilities. An equivalent model is required for the plant with generation collector systems. This data should reflect the technical data provided in this Attachment A.
- B. For each generator, governor, exciter, power system stabilizer, WTG, or inverter based generator, select the appropriate dynamic models from the General Electric PSLF Program Manual and provide the required input data. Include any user written *.p EPCL files to simulate inverter based plants' dynamic responses (typically needed for inverter based PV/wind plants). Provide a completed *.dyd file that contains the information specified in this section.

The GE PSLF manual is available upon request from GE. There are links within the GE PSLF User's Manual to detailed descriptions of specific models, a definition of each parameter, a list of the output channels, explanatory notes, and a control system block diagram. In addition, GE PSLF modeling information and various modeling guidelines

PG&E'S RULE 21 EXPORTING GENERATOR INTERCONNECTION REQUEST

documents have been prepared by the WECC Modeling and Validation Work Group. This information is available on the WECC website (www.wecc.biz).

If you require assistance in developing the models, we suggest you contact General Electric. Accurate models are important to obtain accurate study results. Costs associated with any changes in facility requirements that are due to differences between model data provided by the generation developer and the actual generator test data, may be the responsibility of the generation developer.

PG&E'S RULE 21 EXPORTING GENERATOR INTERCONNECTION REQUEST

TABLE 1

TRANSFORMER DATA (Provide for each level of transformation)

UNIT _____

NUMBER OF TRANSFORMERS _____ PHASE _____

RATING	H Winding	X Winding	Y Winding
Rated MVA	_____	_____	_____
Connection (Delta, Wye, Gnd.)	_____	_____	_____
Cooling Type (OA,OA/FA, etc.) :	_____	_____	_____
Temperature Rise Rating	_____	_____	_____
Rated Voltage	_____	_____	_____
BIL	_____	_____	_____
Available Taps (% of rating)	_____	_____	_____
Load Tap Changer? (Y or N)	_____	_____	_____
Tap Settings	_____	_____	_____
IMPEDANCE	H-X	H-Y	X-Y
Percent	_____	_____	_____
MVA Base	_____	_____	_____
Tested Taps	_____	_____	_____
WINDING RESISTANCE	H	X	Y
Ohms	_____	_____	_____

CURRENT TRANSFORMER RATIOS

H _____ X _____ Y _____ N _____

PERCENT EXCITING CURRENT 100 % Voltage; _____ 110% Voltage _____

Supply copy of nameplate and manufacturer's test report when available.



San Francisco, California

Cal. P.U.C. Sheet No. 48282-E
Cal. P.U.C. Sheet No. 43280-E

Sheet 1

**Please Refer to Attached
Sample Form**

<i>Submitted</i>	<u>January 8, 2021</u>
<i>Effective</i>	<u>August 18, 2020</u>
<i>Resolution</i>	



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): ☐ 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*
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



AGREEMENT AND CUSTOMER AUTHORIZATION

Net Energy Metering (NEM2) Interconnection

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

- ☐ 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 79-1151-02B 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 accompanying Application Form 79-1151-02B.

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 79-1151-02B, 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 110% 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^A. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on <http://www.pge.com> on the page titled "Access, download, or share usage data."

^A 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.



AGREEMENT AND CUSTOMER AUTHORIZATION

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Generator System Sizing

Generator System Type: ☐ Solar ☐ Wind ☐ Both

(1) Solar CEC-AC rating^B _____ (kW) X 1,664^C = _____ (kWh)
AND/OR (2) Wind Nameplate rating _____ (kW) X 2,190^D = _____ (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 1.1 = _____ (kWh)
OR (If 12 months usage not available) (5) Building size _____ (sq ft) X 3.32^E = _____ (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 E 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^F 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 or call (800)-PGE-5000 for rate information.

Residential Service Rate (Select one):

[Rate Schedule to be Selected online from Currently Available Residential Rates]

Small and Medium Commercial Service Rate (Select one rate and primary or secondary service voltage):

[Rate Schedule to be Selected online From Currently Available Small & Medium Commercial Rates]

^B 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

^C 8,760 hrs/yr x 0. solar 19 capacity factor = 1,664

^D 8,760 hrs/yr x 0.25 wind capacity factor = 2,190

^E 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.19 solar capacity factor = 3.32

^F 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

Agricultural Power Service Rate: (Select one rate and rate option):

[Rate Schedule to be Selected online From Currently Available Agricultural Rates]

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.

Part IV – Interconnection Agreement Provisions – Continued

A. 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.

B. 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.

C. 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.

D. NEM2 Billing

The Customer's meter separately measures exports and imports.

Please complete this agreement in its entirety

Automated Document, Preliminary Statement, Part A.

Page 4 of 7
Form 79-1151A-02
Advice 4295-G-B/5920-E-B
January 2021



AGREEMENT AND CUSTOMER AUTHORIZATION

Net Energy Metering (NEM2) Interconnection

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

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.

E. 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. 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. Participants in NEM2A, please see provisions in *NEM2 Load Aggregation Appendix (Form 79-1153)*.

F. 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.

G. 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.

Part IV – Interconnection Agreement Provisions – Continued

A. 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.

B. 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.

C. Meter Access

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

D. Stale Agreements



AGREEMENT AND CUSTOMER AUTHORIZATION

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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.

E. 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.

F. 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.

G. 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 ^G 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:

^G 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.



AGREEMENT AND CUSTOMER AUTHORIZATION

Net Energy Metering (NEM2) Interconnection

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

- (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.

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 [\[www.pge.com/about/company/privacy/customer\]](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.

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 have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.**
- 4) 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.

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.



U 39

**Pacific Gas and
Electric Company®**

San Francisco, California

Cancelling Revised
Revised

Cal. P.U.C. Sheet No. 48283-E
Cal. P.U.C. Sheet No. 47132-E

Electric Sample Form No. 79-1174
Rule 21 Generator Interconnection Application

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5920-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted January 8, 2021
Effective August 18, 2020
Resolution



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT INFO

CUSTOMER AND PROJECT INFORMATION

Part I - Selecting the Study Process¹

This Application is not applicable for incentives and/or rebates offered by the Energy Resources Conservation and Development Commission (CEC), the CPUC or any other entity. Please contact those agencies directly or on their respective websites:

www.energy.ca.gov and www.cpuc.ca.gov.

Please check one:

- ☐ Fast Track Process.
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part II – Identifying the Generating Facility Location and Responsible Parties

Project Name:

A. Generating Facility Account Information (What electric service will the Generating Facility be interconnected for parallel operation with PG&E? For aggregated electric accounts provide the primary account and meter information).

Name shown on PG&E service account

Electric Service
Agreement ID number -
10-digits

Electric Badge (Meter)
Number - 6-10 digits
(alpha numeric)

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

		CA	

Meter Location Street Address

City

State

Zip - 5-digits

Please check all that apply:

- ☐ A New Generating Facility interconnection (at an existing service).
- ☐ Physical Changes to an interconnected Generating Facility with previous approval by PG&E (adding PV panels, adding energy storage as an addition or enhancement, changing inverters/turbines or changing load and/or operations).
- ☐ A New interconnection in conjunction with a new service.
- An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 or Rule21Gen@pge.com.
- ☐ An Interconnection under Direct Access (DA).
- Customers applying for interconnection who are served under Direct Access by an Electric Service Provider (ESP) must contact their ESP directly for information regarding the options available under their Direct Access contract.

¹ For selection of Study Process for Exporting Generating Facilities, please complete the Rule 21 Exporting Generating Facility Interconnection Request Form 79-1145.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT INFO

CUSTOMER AND PROJECT INFORMATION

- ☐ An Interconnection under Community Choice Aggregation Service (CCA Service).
- Customers applying for interconnection who are served under Community Choice Aggregation Service (CCA Service) by a Community Choice Aggregator (CCA) must contact their CCA directly for information regarding the options available under their CCA Service Program.
- ☐ An interconnected non-exporting Generating Facility (load always exceeds generation).

B. Customer Account Contact Information -

Mailing Address			
City		State	Zip - 5-digits
() -	() -		
Business Phone	Home Phone	Fax	Email

C. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contact		Company Name	
Mailing Address			
City		State	Zip - 5-digits
() -	() -		
Business Phone	Fax	Email	
☐ Yes ☐ No			
Does Installer have Contractors State License Board (CSLB) Number?		Contractors State License Board Number	

D. Project Contact Information (Who is the project manager for this Generating Facility?)

Contact		Company Name	
Mailing Address			
City		State	Zip - 5-digits
() -	() -		
Business Phone	Fax	Email	



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT INFO

CUSTOMER AND PROJECT INFORMATION

What is the **maximum 3-phase fault current** that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault).

_____ Amps

Please indicate the **short circuit interrupting rating** of the host Customer facility's service panel:

_____ Amps

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

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

E. 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 size² (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/>.

² 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



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT NX

NON-EXPORT

Interconnection Agreement Type

Please select one option below:

- ☐ Non-Export A Generating Facility Interconnection Agreement that provides for parallel operation of the Generating Facility, but does not provide for exporting power to PG&E's Distribution System. This non-export agreement, however does allow the occasional and uncompensated export of energy to PG&E's Distribution System for less than 2 seconds in duration.
- ☐ Uncompensated Export A Generating Facility Interconnection Export Addendum that provides for parallel operation of the Generating Facility and the occasional, continuous, non-compensated, export of generator facilities sized 2 MW or less to PG&E's Distribution System. Continuous export is export greater than 60 seconds in duration. This addendum must be executed in concert with the generating facility interconnection agreement.

Third Party Generating Facility Ownership

- ☐ Third Party Owned Generating Facility A Generating Facility Interconnection Agreement that provides for parallel operation of the 3rd Party owned Generating Facility, but does not provide for exporting energy to PG&E's Distribution System; as well as a Customer Generation Agreement that defines the relationship between the Customer whose name appears on PG&E's electric service account. If this option is chosen, please complete the Third Party Generating Facility Ownership section below.

Customer Generation Agreement (CGA) (for 3rd Party Generator on Premises) Information (Please identify the PG&E Customer of Record where Generating Facility will be installed). CGA is not applicable to Net Energy Metering (NEM) Applicants because PG&E and the Customer, not the 3rd Party if any, must enter into the Net Energy Metering Interconnection Agreement.

Company Name to be entered on CGA	Legal Title of Host Facility to be entered on CGA	
Person Executing the CGA	Title of Person Executing the CGA	
	() ____ - ____	
Mailing Address	Phone	E-Mail

Generating Facility Interconnection Agreement (GFIA) for 3rd Party Owner – GFIA Information

- ☐ Generating Facility Interconnection Agreement (GFIA) for 3rd Party Owner will be executed by Contractor

Please identify the Party that will own the Generating Facility.

This Section is not applicable to Net Energy Metering (NEM) Applicants because PG&E and the Customer, not the 3rd Party if any, must enter into the Net Energy Metering Interconnection Agreement.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT NX

NON-EXPORT

Company Name to be entered on GFIA	Legal Title of Company to be entered on GFIA	
	() ____ - ____	
Mailing Address	Phone	E-Mail

Part II – Generating Facility Operational Details

Operating Modes:

- ☐ **Parallel Operation:** The Generating Facility will interconnect and operate “in parallel” with PG&E’s Distribution System for more than one (1) second.

Please supply all of the information requested for the Generating Facility. Be sure to supply adequate information including diagrams and written descriptions regarding the protective relays that will be used to detect faults or abnormal operating conditions on PG&E’s Distribution System.

☐ **Inadvertent Export:** The Generating Facility will interconnect and operate, providing unscheduled and uncompensated export of real power for a duration exceeding two (2) seconds but fewer than sixty (60) seconds. The expected frequency of “inadvertent export” occurrences should be less than two occurrences per 24-hour period. Protective Functions, technical requirements and operational limitations are described in Rule 21, Section M.

Be sure to supply adequate information including diagrams and written descriptions regarding the switching device or scheme that will be used to limit the parallel operation period to one second or less. Please also describe the back up or protective device and controls that will trip the Generating Facility should the transfer switch or scheme not complete the transfer in one second or less.

- ☐ **Momentary Parallel Operation (MP):** The Generating Facility will interconnect and operate on a “momentary parallel” basis with PG&E’s Distribution System for a duration of one (1) second or less through transfer switches or operating schemes specifically designed and engineered for such operation.

Be sure to supply adequate information including diagrams and written descriptions regarding the switching device or scheme that will be used to limit the parallel operation period to one second or less. Please also describe the back up or protective device and controls that will trip the Generating Facility should the transfer switch or scheme not complete the transfer in one second or less.

- ☐ **Isolated Operation (I):** The Generating Facility will be “isolated” and prevented from becoming interconnected with PG&E’s Distribution System through a transfer switch or operating scheme specifically designed and engineered for such operation.

Be sure to supply adequate information including diagrams and written descriptions regarding the isolating switching device or scheme that will be used to prevent the Generating Facility from operating in parallel with PG&E’s Distribution System.

Parallel and Inadvertent Export Options



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT NX

NON-EXPORT

- ☐ A **reverse-power protection device** will be installed to measure any export of power and trip the Generating Facility or open an intertie breaker to isolate the Generating Facility if limits are exceeded.
- ☐ An **under-power protection device** will be installed to measure the inflow of power and trip or reduce the output of the Generating Facility if limits are not maintained.
- ☐ The Generating Facility Interconnection Facility equipment has been **certified as non-islanding and the incidental export of power will be limited by the design of the interconnection**. If this option is to be used, the nominal ampere rating of the service entrance equipment (service panel rating) that is used by the host Customer facility is: _____.
- ☐ The **Gross Nameplate Rating of the Generating Facility will not exceed 50% of the host Customer facility's minimum electrical load over the past 12 months**. If this option is to be used, the minimum load of the host Customer facility must be stated in the space provided above.

The Generating Facility **completely offset their facility load** by being (a) optimally sized to meet their peak demand with load following functionality on the Generator controls and (b) ensuring conditional (inadvertent) export of electric power from the Generation Facility to Distribution Provider's Distribution or Transmission System occurs no more frequently than twice in any 24 hour period and the exports are greater than 2 seconds but no more than more than 60 seconds.

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

Please indicate

- ☐ Standby / Emergency / Backup - Where the Generating Facility will normally be operated only when PG&E's electric service is not available.
- ☐ Qualifying Facility (QF) Status will be obtained from the FERC for this Generating Facility.

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

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



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT EX

EXPORT

Describing the Export Operation

Interconnection Service Requirements: (Please select one box below)

- ☐ Existing Service (currently metered PG&E service)
- ☐ New Generation-only Service (no load other than ancillary required for Generating Facility)
NEMVMASH participants must select either this option or the next
- ☐ New Generation-only Meter Tap (at location of existing service)
NEMV applicants must select this option

If new generation-only service is needed, please indicate the requested voltage level: (Please select one box below)

- ☐ Secondary (up to 480V)
- ☐ Primary (up to 59 kV)
- ☐ Transmission (60 kV and up)

Power Export:

Generator Nameplate¹ Export (kW) _____

Maximum Expected Facility Net Export (kW) _____

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.

- ☐ Is 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?

¹ Please note that for Generating Facilities larger than 1 MW interconnecting to existing secondary voltage services, the revenue meter may require power loss adjustment.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T1

SOLAR (PV) TECHNOLOGY

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

For other solar generation technologies not utilizing inverters please use attachment F.

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
Please indicate the number of each "type" and quantity of Generator being installed Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rule 21? Answer "Yes" only if the Generator manufacturer can or has provided certification data. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No

INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T1

SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Modules.	Manufacturer Model #. Quantity	Manufacturer Model #. Quantity	Manufacturer Model #. Quantity	Manufacturer Model #. Quantity
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.				

SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
K - AC Disconnect 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	Manufacturer Model # Rating (amps)	Manufacturer Model # Rating (amps)	Manufacturer Model # Rating (amps)	Manufacturer Model # Rating (amps)
Located within 10 feet of the PG&E meter?	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
L - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	____ 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 (NEM) arrangement..*

A. Customer Sector (Check one)

- ☐ Residential
 ☐ Educational
 ☐ Industrial
☐ Commercial
 ☐ Military
 ☐ Non-Profit
☐ Other Government

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 _____



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T1

SOLAR (PV) TECHNOLOGY

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? _____

☐ 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: \$ _____

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



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T2

WIND TURBINE TECHNOLOGY

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "type" and quantity of Generator being installed Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Inverter certified? Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rule 21? Answer "Yes" only if the Generator manufacturer can or has provided certification data. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T2

WIND TURBINE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	___ Synch ___ Induct. ___ Inverter	___ Synch ___ Induct. ___ Inverter	___ Synch ___ Induct. ___ Inverter	___ Synch ___ Induct. ___ Inverter
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.				
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T2

WIND TURBINE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms
M - Induction Generators Only: Locked Rotor Current: _____ (Amps) Stator Resistance: _____ (%) Stator Leakage Reactance: _____ (%) Rotor Resistance: _____ (%) Rotor Leakage Reactance: _____ (%) If the Generator is of an induction design, please provide the “locked rotor current” value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)
N - Short Circuit Current Produced by Generator	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
O - AC Disconnect 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	_____ Manufacturer _____ Model # _____ Rating (amps) ___ Yes ___ No	_____ Manufacturer _____ Model # _____ Rating (amps) ___ Yes ___ No	_____ Manufacturer _____ Model # _____ Rating (amps) ___ Yes ___ No
P - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "type" and quantity of Generator being installed. Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rule 21? Answer "Yes" only if the Generator manufacturer can or has provided certification data. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter
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.				
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms
M – <i>Synchronous Generators Only</i>: If the Generator is of a synchronous design, please provide the synchronous reactance, transient reactance, and subtransient reactance values supplied by the manufacturer. This information is necessary to determine the short circuit contribution of the Generator and as data in load flow and short circuit computer models of PG&E's Distribution System. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.				
Synchronous Reactance: _____ (Xd %) Transient Reactance: _____ (Xd %) Subtransient Reactance: _____ (Xd %)	_____ (Xd %) _____ (Xd %) _____ (Xd %)	_____ (Xd %) _____ (Xd %) _____ (Xd %)	_____ (Xd %) _____ (Xd %) _____ (Xd %)	_____ (Xd %) _____ (Xd %) _____ (Xd %)
N - <i>Induction Generators Only</i>: Locked Rotor Current: _____ (Amps) Stator Resistance: _____ (%) Stator Leakage Reactance: _____ (%) Rotor Resistance: _____ (%) Rotor Leakage Reactance: _____ (%) If the Generator is of an induction design, please provide the "locked rotor current" value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
O - Short Circuit Current Produced by Generator	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
P – For Generators that are Started as a “Motor” Only: This information is needed only for Generators that are started by “motoring” the generator. See PG&E’s Rule 21, Sections L.3.d. and L.7.b. for significance and additional information. If this question was answered in Part IV, question C of this Application, it need not be answered here. 1. In-Rush Current: 2. Host Customer’s Service Entrance Panel (Main Panel) Continuous Current Rating:	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
Q – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3	1 2 3	1 2 3
R - AC Disconnect 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	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No
S - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T4

FUEL CELL TECHNOLOGY

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

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "type" and quantity of Generator being installed. Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rule 21? Answer "Yes" only if the Generator manufacturer can or has provided certification data. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T4

FUEL CELL TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter
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.				
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye
Generator Information	Existing	Existing	New	New



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T4

FUEL CELL TECHNOLOGY

	Generator type 1	Generator type 2	Generator type 1	Generator type 2
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms
M - Short Circuit Current Produced by Generator	(Amps)	(Amps)	(Amps)	(Amps)
N – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3	1 2 3	1 2 3
O - AC Disconnect 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	Manufacturer Model # Rating (amps) ☐ Yes ☐ No	Manufacturer Model # Rating (amps) ☐ Yes ☐ No	Manufacturer Model # Rating (amps) ☐ Yes ☐ No
P - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
# Please indicate the number of each “type” and quantity of Generator being installed. Be sure all Generators classified as one “type” are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rule 21? Answer “Yes” only if the Generator manufacturer can or has provided certification data. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter
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 - Energy Storage Electrical Source Function (in addition, please complete section: "Additional Information Required for Energy Storage") List (if any) device(s) used to limit discharge (Inverter, Power Control, etc.)	Max kWh Capacity: Rated kW Discharge: Max kW Discharge: 	Max kWh Capacity: Rated kW Discharge: Max kW Discharge: 	Max kWh Capacity: Rated kW Discharge: Max kW Discharge: 	Max kWh Capacity: Rated kW Discharge: Max kW Discharge:
H - 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.				



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
I - 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.				
J - 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.				
K - Wiring Configuration Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.				
L - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye
M - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms
N - Short Circuit Current Produced by Generator	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
O – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3	1 2 3	1 2 3



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
P - AC Disconnect 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)
	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No
Q - Energy Storage (ES) System (For important sizing information related to DC-Coupled configurations, see sizing note below).	_____ Manufacturer _____ Model # _____ Quantity of Units	_____ Manufacturer _____ Model # _____ Quantity of Units	_____ Manufacturer _____ Model # _____ Quantity of Units	_____ Manufacturer _____ Model # _____ Quantity of Units
R - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.Com for more information.	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No	_____ Yes _____ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

Energy Storage Charging Function:

Rated Charge Demand (Load): _____ kW

Estimated annual Net Energy Usage* of the energy storage device(s): _____ kWh

*Net Energy usage = (kWh input, including charging, storage device auxiliary loads and losses) – (kWh output including discharging)

Will the Distribution System be used to charge the storage device: ☐ Yes ☐ No

If no: Provide technical description of control systems including (e.g. Nationally-certified piece of equipment, Relays/metering):

Source of energy for Charging: _____

Mechanism to prevent charging from the Distribution System: _____

If Yes: Will charging the storage device(s) increase the host facility's existing peak load demand:

☐ Yes ☐ No

If Yes: Provide the following loading information:

Amount of added peak demand: _____ kW

If no: Provide technical description of controls systems including:

Charging periods: _____

Mechanism to prevent charging from the Distribution System during host facility peak:

Expedited Interconnection Process Selection for Non-Export Energy Storage:

☐ This project meets the requirements identified in Rule 21 Section N and this process is being selected for expedited interconnection.

Note on Sizing (DC-Coupled Configurations)

The size of the storage system in DC-coupled NEM-eligible generator plus storage systems is the lesser of the shared inverter's (or inverters') nameplate capacity (capacities summed) and the storage device's (devices') maximum continuous discharge capacity (capacities summed) listed on the device's (devices') technical specifications sheets. A storage device's maximum continuous discharge capacity may be listed on technical specification sheets using different terminology. Note: PG&E will use common sense to determine whether a device's technical specification sheet includes the appropriate metric for purposes of determining system size, regardless of the terminology used. If that metric is not included, PG&E may rely on the inverter's nameplate rating.

For example:

- What is the maximum continuous discharge capability for each storage unit?

_____ + _____ + _____ + _____ + _____ = .
total _____

- What is each inverter's nameplate rating?

_____ + _____ + _____ + _____ + _____ = .
total _____



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P1

RES- BCT

Part I – Applicability and Purpose

This *LOCAL GOVERNMENT APPLICATION FOR AN ARRANGEMENT TO TAKE SERVICE ON RATE SCHEDULE RES-BCT WITH INTERCONNECTED ELIGIBLE RENEWABLE GENERATION OF NOT MORE THAN 5 MEGAWATTS* ("RES-BCT Application") allows for a Local Government, as defined in Rate Schedule RES-BCT, to apply for an Arrangement, as defined in Rate Schedule RES-BCT, to take service on PG&E's electric Rate Schedule *RES-BCT NET ENERGY METERING SERVICE FOR LOCAL GOVERNMENT REMOTE RENEWABLE SELF GENERATION*.

For the Local Government's Arrangement (as defined in the RES-BCT tariff), this Application allows a Local Government to:

- a) Elect one or more Generating Accounts with Eligible Renewable Generating Facilities, as defined in Rate Schedule RES-BCT, where each interconnected Eligible Renewable Generating Facilities at the Arrangement, has a capacity of 5 megawatts (5,000 kW) ("Generating Facility") or less; and
- b) Interconnect and operate the Eligible Renewable Generating Facilities under the provisions of PG&E's Electric Rule 21;
- c) Elect one or more, but no more than 50, Benefiting Account to receive the Bill Credit, as defined in Rate Schedule RES-BCT from the Generating Accounts in (a); and
- d) Elect Bill Credit Allocation Percentages for each of the Generating and Benefiting Accounts.

Local Government has elected to apply for service for its Arrangement on Rate Schedule RES-BCT, which involves the interconnection and operation of its Eligible Renewable Generating Facilities in parallel with PG&E's Electric System, primarily to offset part or all of the Arrangement's own electrical requirements at the affiliated Generating and Benefiting Accounts as listed in Appendix A.

Part II – Designation of Bill Credit Allocation Percentages to RES-BCT Arrangement Accounts

A. Section 1 Instructions

- Complete the section below.

Local Government Name	Address	Date
Name:		
Contact Name:		
Contact Title:		

- Is this application for a new Arrangement or a reallocation for an existing Arrangement? (For an existing Arrangement, Local Governments may not change the Credit Allocation Percentages more frequently than once in any 12 month period.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P1

RES- BCT

- ☐ This Appendix A to the RES-BCT Application is for an allocation for the initial new Arrangement.
- ☐ This Appendix A to the RES-BCT Application is for a reallocation for an existing Arrangement.
- Please use the attached Appendix A Section 2 page to list all Benefiting Accounts that are located in the Arrangement that will be taking service on RES-BCT. Include the Generating Account, and all Benefiting Accounts.
 - Please note for each row:
 - **Account Type** - check the one box corresponding to the type of account (that is, Generating or Benefiting Account). There must be at least one Generating Account and one Benefiting Account listed. Every row (account) should have one and only one of these 2 boxes checked. *(Required)*. A Rule 21 Application and Interconnection Agreement as described in Section A of the RES-BCT Application will need to be submitted for the Generating Facility at each Generating Account listed below. In the "Designated Account..." column, designate the ONE account to which PG&E should apply any remaining true-up credit as described in the RES-BCT Special Condition 2(h). It may not be the generator account.
 - **Account Address** - Provide an address, including unit number, for all Accounts. *(Required)*
 - **Name** - For Generating and Benefiting Accounts, the Account Holder's name must be entered. *(Required)*
 - **PG&E Account Number** - Enter the PG&E Account number for all accounts. *(Required)*
 - **Otherwise Applicable Rate Schedule** – Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all accounts. *(Required)*
 - **Bill Credit Allocation Percentage** – For each Generating and Benefiting Account listed, enter the Bill Credit Allocation Percentage to the nearest whole percentage. The total of all Bill Credit Allocation Percentages must equal 100%.
 - **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages.) Note that no more than 50 Benefiting Accounts may be included in an Arrangement.

Local Governments are encouraged to not allocate more Bill Credit to an account than will be used annually. If any additional Bill Credit pursuant to RES-BCT Special Condition 2 (c),(d) and (g) remains, PG&E will review the true up bills for the Generating Account and Benefiting Accounts to determine if any charges for the generation component of the energy charge remain to be credited. If yes, PG&E will apply the remaining Bill Credit to the Designated Account. Local Governments are encouraged to not allocate more Bill Credit to an account than will be used annually.



INTERCONNECTION APPLICATION (Form 79-1174)
ATTACHMENT P1
RES- BCT

B. Section 2

#	Account Type Check only one box for each row (required field)			Account Address (required field)	For Benefiting and Generating Account, List Name on Account,	(Required field for All Accounts)	(Required field for All Accounts)	(Required Field for All Accounts)
	Generator Account	Benefiting Account	Designated Account Check <u>only one</u> account <u>Must not be a generator account</u>			PG&E Service Agreement Number	Otherwise Applicable Rate Schedule (OAS) under RES-BCT	Bill Credit Allocation Percentage (to the nearest whole percentage)
1	☐	☐	☐					
2	☐	☐	☐					
3	☐	☐	☐					
4	☐	☐	☐					
5	☐	☐	☐					
6	☐	☐	☐					
7	☐	☐	☐					
8	☐	☐	☐					
9	☐	☐	☐					
10	☐	☐	☐					
11	☐	☐	☐					
12	☐	☐	☐					
13	☐	☐	☐					
14	☐	☐	☐					
15	☐	☐	☐					
Total Bill Credit Allocation Percentage for all accounts over all pages must equal 100% _____								

- Note 1) The capacity of all Eligible Renewable Generating Facilities on each Generating Account in the Arrangement must not total more than 5 megawatts.
- Note 2) There must be no more than 50 Benefiting Accounts in an Arrangement.
- Note 3) The Monthly Billing Setup Recovery Charge for the Arrangement from the RES-BCT tariff will be billed to each Generating Account listed, unless otherwise note



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P2

NEMFC LOAD AGGREGATION

As governed by Schedule NEMFC Special Condition 4, for purposes of determining if the eligible Fuel Cell Customer-Generator was a net consumer or a net producer of electricity during each Relevant Period PG&E will aggregate the load of the Fuel Cell Customer-Generator's accounts listed below where the Fuel Cell Customer Generator is the customer of record and the following requirements are met: (i) the accounts are on an applicable time-of-use rate schedule, and (ii) the accounts are located on the property where the Eligible Fuel Cell Electrical Generation Facility is located or on property adjacent or contiguous to that property as long as those properties are solely owned, leased, or rented by the Eligible Fuel Cell Customer-Generator; and (iii) all the accounts are served by the same electric commodity service provider. (i.e. the Eligible Fuel Cell Customer- Generator account and all aggregated accounts must all be on bundled service or all on CCA service, or all on DA service.)

	Meter (Badge) Number	Service Agreement ID	Rate Schedule	Address (Street, City, Zip Code)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P3

NEM LOAD AGGREGATION

Part I

This is an appendix to Form 79-1151A, 79-978, 79-1137 or 79-1069 as applicable. As governed by Schedule NEM Special Condition 7, PG&E will aggregate the load of the Customer-Generator's accounts listed below where the Customer-Generator is the customer of record and the accounts continue to meet the requirements of Special Condition 7 of PG&E's NEM tariff as outlined in the Customer Declaration below.

In accordance with this appendix:

- (i) Pursuant to Schedule NEM Special Condition 7 the electricity generated by the renewable electrical generation facility and exported to the grid shall be allocated to each of the aggregated meters in proportion to the electrical load served by those meters, and
- (ii) One time set up fee of \$25 is assessed for each account in the NEMA arrangement (not to exceed \$500). A \$5 monthly fee will be assessed for each aggregated account. These fees will be billed to the generating account.

Note these fees are subject to change from time to time. Additional monthly fees (for example, but not limited to, minimum charges, meter fees, demand charges) may also apply to each account, as described in that account's otherwise applicable rate schedule,, and

- (iii) Customer-Generator shall permanently be ineligible to receive Assembly Bill (AB) 920 net surplus electricity compensation (NSC), and PG&E shall retain any kilowatt hours in excess of the eligible Customer-Generator's electrical load as determined for each aggregated meter individually. (However, if an Aggregated Account that is not a Generating Account is separated from the Arrangement, and subsequently qualifies for NEM, it may be eligible for NSC.)

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.

Part II

In accordance with Schedule NEM, as Customer-Generator you will be required to represent and warrant under penalty of perjury on the interconnection agreement 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



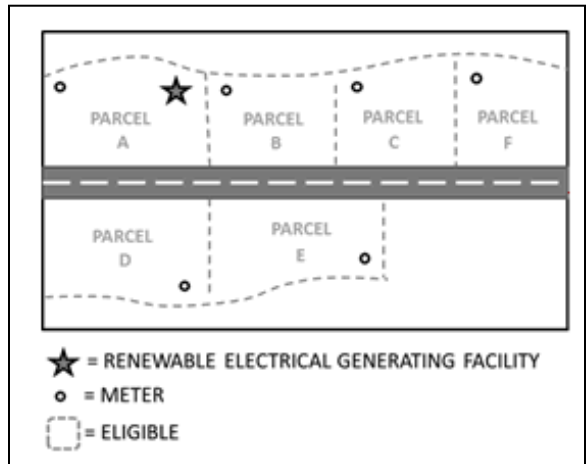
INTERCONNECTION APPLICATION (Form 79-1174) ATTACHMENT P3

NEM LOAD AGGREGATION

- 2) Each of the aggregated account meters associated with this NEM 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) You agree to notify PG&E if there is any change of status that makes any of the meters listed in this Appendix ineligible for meter aggregation to ensure that only eligible meters are participating PG&E will require an updated Appendix and Declaration form and
- 5) In the "Variations on Customer Generator Name" fields on the following table, you may provide all variations of your name. By signing the interconnection agreement you attest that as Customer-Generator, you have sole control of all the parcels establishing contiguity for the Arrangement listed on Page 3 of this Appendix.



Variations on Customer-Generator Name
1)
2)
3)
4)
5)

You will have to sign that you understand that "sole control" means that I solely own, lease or rent each parcel or that I have an irrevocable easement that grants me sole use and control of the entire parcel. I understand that other types of easements are not sufficient to establish contiguity for NEMA.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P3

NEM LOAD AGGREGATION

Part III

A. Second Service For Generator

Requesting Second Service for Generator: ☐ Yes ☐ No

For Load Aggregation Arrangements Requesting an additional service for a Generator Account – Subject to all other applicable rules, an additional service may be allowed for the Generating Account if it has no load other than that associated directly with the Renewable Electric Generation Facility. However, a customer may not subsequently add load to that additional service, and if the Renewable Electrical Generation Facility is removed, the additional service, may not be converted to a load account.

B. Minimum Number of Aggregated Load Accounts

A NEMA Arrangement must have at least two Aggregated Load Accounts. The generator account must have non-generator (existing) load to be counted as an Aggregated Load Account. Generator Accounts interconnected based on Part II A above, will not be counted as an Aggregated Load Account.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P3

NEM LOAD AGGREGATION

NEM Load Aggregation Worksheet								
Accounts	PARCEL NUMBER	ACCOUNT NAME ^{1 2}	SERVICE ADDRESS	ELECTRIC ACCOUNT NUMBER ²	ELECTRIC SERVICE AGREEMENT NUMBER ²	ELECTRIC METER NUMBER ²	ELECTRIC RATE SCHEDULE ²	ANNUAL KWH LOAD ³
Generator								
Load Acct 1								
Load Acct 2								
Load Acct 3								
Load Acct 4								
Load Acct 5								
Load Acct 6								
Load Acct 7								
Load Acct 8								
Load Acct 9								
Load Acct 10								
Total Annual kWh								
<i>(For Standard NEM Solar/Wind less than 30kW) - 110% of Total Annual kWh</i>								
Estimated Annual kWh Production			Solar = CEC-AC⁴ rating X 1,664⁵ Wind = Total Inverter Nameplate Rating X 2,190⁶ Other Technologies = Total Inverter Nameplate Rating X 7,008⁷					

¹ If this is a new account, enter *NEW*.

² As listed on your Billing Statement

³ For previous twelve months from date of signature. Please also enter the annual kWh for generator account prior to the generator being installed; if none, enter zero.

⁴ CEC-AC (kW) = California Energy Commission Alternating Current, refers to inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

⁵ Estimated Solar Production = 8,760 hrs/yr X 0.19 solar capacity factor = 1,664

⁶ Estimated Wind Production = 8,760 hrs/yr X 0.25 wind capacity factor = 2,190

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



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P4

NEMV

Part I - General Facility

A. Are there any other generators interconnected on this account?

☐ Yes

If yes, specify what kind of generator _____

☐ No

B. Are there any possible generator meter access issues?

☐ Yes If yes, check all that apply:

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

C. Are any of your accounts on a Demand Response program?

Qualified Customers are eligible for the same demand response programs and solar tariffs as NEM customers. Demand response payments to Qualified Customers will be based on the Qualified Customer's metered usage disregarding any contributions from virtually net-metered generation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) should also exclude from consideration any impacts of NEMV generation.

☐ Yes

If yes, what program are you on? _____

☐ No.

D. Generator Interconnection Tie-in Point – Does your interconnection satisfy PG&E's Meter Standards?

☐ Yes

☐ No. Reason: _____

If after review of a customer's NEMV application PG&E determines a site assessment is essential, then PG&E may conduct a site assessment. Please note that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.

E. Are you planning to meet the requirements specified in the PG&E Greenbook (current reference is "VNEM Installation Requirements", Utility Bulletin TD6999B-005, 02/06/2012)?

☐ Yes

☐ No. Reason: _____

F. Where are you planning to tie in? Can you provide Switchgear cutsheets, detailing the proposed point of connection and bussing modification / clearances, cutsheets of the NGOM socket, to clearly identify proposed tie-in point?

Location: _____

G. Is the currently proposed tie-in point a result of restrictions placed on altering the existing panel or equipment within, as imposed by the local authority having jurisdiction?

☐ Yes - What restriction? _____

☐ No.

H. Have you confirmed the Ampere Interrupting capacity (AIC) rating of the existing panel?

☐ Yes

☐ No. Reason: _____



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P4

NEMV

I. Are there existing PG&E gas or other utility's facilities in the vicinity of the proposed point of interconnection?
(Note: Minimum clearances must be maintained from PG&E facilities, as specified in PG&E's Greenbook)

- ☐ Yes - Describe: _____
- ☐ No.

J. Are you going to require PG&E to arrange to de-energize the service panel for you to safely connect the generator to the service panel?

(Note: that the de-energizing process may be as simple as a PG&E Troublemaker opening a switch, or as involved as a PG&E crew performing switching, and rearrangement of service wires, and coordinating with neighboring customers that might be impacted by this de-energizing project. **PG&E requires ten (10) business days advance notice prior to performing such a request.**)

- ☐ Yes - Describe: _____
- ☐ No.

K. Can this de-energizing of the service panel be done during normal business hours?

- ☐ Yes
- ☐ No. If not, what time of the week and time of the day do you request this service disconnection to occur?

Mon Tues Wed Thu Fri Sat Sun
(circle day of week)

____:____ AM / ____ PM
(enter time & circle AM or PM)

Note- the time of de-energizing the service panel will also depend on whether other customers are impacted and their input to the process.

L. What is the duration of the service disconnection requested?

Duration _____

M. Do you need PG&E personnel to stand by while you perform your work?

- ☐ Yes
- ☐ No

N. Will you need to obtain clearance from the local authority having jurisdiction prior to PG&E re-energizing the service panel?

(Note: Some cities/counties require that they have inspected the panel prior to reenergizing. You will need to provide proof of the local authority that your work will not require such approval, or be prepared to provide that to PG&E prior to PG&E re-energizing the panel).

- ☐ Yes
- ☐ No

INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P4

NEMV

Part 2 - Designation of NEMV Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

Section 1 Instructions

- a. Please ensure the information on the Customer and Project Information for account information represents the owner as per NEMV.
- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 2 or 3(g)?
 - ☐ This application is for an allocation for the initial, new NEMV Arrangement:
 - ☐ This application is for a reallocation for an existing NEMV Arrangement:
- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefiting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEMV tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P4

NEMV

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

Is this a reallocation of an existing NEMV Arrangement? ___ Yes ___ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT L

NEMV

Part 3 - Generator Interconnection Point Documentation

Applicant shall attach the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

Note: If after review of a customer's NEMV application PG&E determines a site assessment is needed, then PG&E may conduct a site assessment. Owners are reminded that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

Revised
Cancelling Revised

Cal. P.U.C. Sheet No. 48284-E
Cal. P.U.C. Sheet No. 47133-E

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

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5920-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted January 8, 2021
Effective August 18, 2020
Resolution

RULE 21 GENERATOR INTERCONNECTION APPLICATION (Form 79-1174-02)

Part I - Introduction and Overview

A. Applicability: This Generating Facility Interconnection Application (Application) is used to request the interconnection to Pacific Gas and Electric Company's (PG&E) Electric System (over which the California Public Utilities Commission (CPUC) has jurisdiction) one or more of the following¹ tariffs:

- (1) Non-Exporting Generating Facilities;
- (2) NEM2 Solar (PV) (other than PV 30 KW or less)²; or RPS Generating Facilities
- (3) NEM2 California Dept. of Corrections & Rehabilitation
- (4) NEM2A – NEM2 Load Aggregation (under Schedule NEM2)
- (5) NEM2MT- generating facilities subject to multiple tariff treatment
- (6) RES-BCT (Renewable Energy Self-Generation Bill Credit Transfer) Generating Facilities;
- (7) NEMFC / NEMFCA Net Energy Metering for Fuel Cells
- (8) NEM2V – Virtual Net Energy Metering
- (9) NEMVMASH (on a single Service Delivery Point, or for a Low Income Development)

Refer to PG&E's Electric Rule 21 and program tariffs to determine the specific requirements for interconnecting a Generating Facility. Capitalized terms used in this Application, and not otherwise defined herein, shall have the same meanings as defined in PG&E's Rule 21 and Rule 1.

Except as noted in the next paragraph, this Application may be used for any Generating Facility to be operated by, or for, a Customer and/or Interconnection Customer to supplement or serve part or all of its electric energy requirements that would otherwise be provided by PG&E, including distributed generation, cogeneration, emergency, backup, standby generation, and certain Net Energy Metered Generating Facilities. While Customers operating Generating Facilities isolated from PG&E's Electric System are not obligated to enter into an Interconnection Agreement with PG&E, parts of this Application will still need to be completed to satisfy PG&E's notice requirements for operating an isolated Generating Facility as specified in the California Health and Safety Code Section 119085 (b).

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

This Application is not applicable for incentives and/or rebates offered by the Energy Resources Conservation and Development Commission (CEC), the CPUC or any other entity. Please contact those agencies directly or on their respective websites:

www.energy.ca.gov and www.cpuc.ca.gov.

B. Guidelines and Steps for Interconnection: This Application must be completed and sent to PG&E along with the additional information indicated in Part II below to initiate PG&E's interconnection review of

¹ Also when included with Energy Storage (e.g., batteries), or when operating under the provisions of PU Code 218, where permitted.

² For Net Energy Metering Customers with Solar and/or Wind Electric Generating Facilities less than 30 kW that are not paired with Energy Storage, simpler, shorter forms are available from PG&E (i.e., Forms 79-1151-02 A and B). These forms are available on PG&E's website at <http://www.pge.com/gen>.

RULE 21 GENERATOR INTERCONNECTION APPLICATION (Form 79-1174-02)

the proposed Generating Facility. When applicable per Rule 21, unless exempted by CPUC Decision, a non-refundable Interconnection Request fee shall be invoiced and must be paid by Interconnection Customer. Pursuant to PG&E's Rule 21, there may be additional study and other costs; see PG&E's Rule 21, Sections E.2.c and E.3., for more information regarding interconnection of a generator to PG&E's Electric System.

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

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

Part II – Describing the Generating Facility and Host Customer's Electrical Facilities

Required Documents: Each of the following documents **is required to be submitted** before this application will be processed. Drawings must conform to accepted engineering standards and must be legible. Electronic documents are preferred.

1. A **Single-line drawing** showing the electrical relationship and descriptions of the significant electrical components such as the primary switchgear, secondary switchboard, protective relays, transformers, generators, circuit breakers, with operating voltages, capacities, and protective functions of the Generating Facility, the Customer's loads, and the interconnection with PG&E's Electric System. Please show the location of all required net generation electric output meter(s) and the A.C. manual operated disconnect switch on the single line drawing, when required.
2. **Site plans and diagrams** showing the physical relationship of the significant electrical components of the Generating Facility such as generators, transformers, primary switchgear/secondary switchboard, and control panels, the Customer's loads and the interconnection with PG&E's Electric System. Please show the location of all required net generation electric output meter(s) and the A.C. manual operated disconnect switch on the site plans, when required.
3. **Disconnect Switch Specification Sheet** - as required in Rule 21 Section H.1.d, along with the disconnect switch specification sheet.

PG&E allows only one AC Disconnect for a generating facility but does make exceptions upon review and approval. Please provide a Variance Letter explaining why multiple AC disconnect switches are needed. This Variance Request will be reviewed in parallel with the Engineering Review.

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4. **Variance Request** - A variance request will be required for anything outside Electric Rule 21³, PG&E's Greenbook⁴, or PG&E's Distribution or Transmission Interconnection Handbooks^{5,6} stated requirements. (See links below)
5. **Transformer nameplate information** - Provide **transformer nameplate information** (voltages, capacity, winding arrangements, connections, impedance, et cetera), if transformers are used to interconnect the Generating Facility with PG&E's Electric System,
6. **Transfer switch/scheme documentation** - If used to interconnect the Generating Facility with PG&E Electric System, Documentation shall include component descriptions, capacity ratings, and a technical description of how the transfer scheme is intended to operate.
7. **Protective relay documentation** If used to control the interconnection, documentation shall include protection diagrams or elementary drawings showing relay wiring and connections, proposed relay settings, and a description of how the protection scheme is intended to function.

Part III Application Appendices

Application Instructions: Complete this application for the complete Generating Facility and enter this information into PG&E's web-based form. (PG&E strongly recommends preparing all information and materials before starting the online application.) The online web-based form can be found at:

https://www.pge.com/en_US/for-our-business-partners/interconnection-renewables/interconnections-renewables.page?ctx=large-business

Questions concerning PG&E's Online Application process can be directed to the Electric Generation Interconnection Department at rule21gen@pge.com.

For each new generating facility you are applying to interconnect, please complete and submit the applicable appendices.

³ Rule 21 can be found at: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_RULES_21.pdf

⁴ PG&E's Greenbook can be found at: <http://www.pge.com/greenbook/>

⁵ Distribution Interconnection Handbook (DIH) can be found at:
https://www.pge.com/en_US/large-business/services/alternatives-to-pge/distribution-handbook.page

⁶ Transmission Interconnection Handbook (TIH) can be found at:
https://www.pge.com/en_US/large-business/services/alternatives-to-pge/third-party-electric-options/electric-transmission-services/transmission-interconnection-handbooks.page

RULE 21 GENERATOR INTERCONNECTION APPLICATION (Form 79-1174-02)

Part IV Attachments / On-Line Form - Overview

Table 1 - Summary of the attachment to this form.

		Attachment	Project Type
	1	INFO	Customer Project Information
EXPORT	2	NX	Non Export
	3	EX	Export
TECHNOLOGY	4	T1	Solar (PV) Only
	5	T2	Wind Only
	6	T3	Machine-Based Only
	7	T4	Fuel Cell
	8	T5	Energy Storage Only
TARIFF PROGRAM	9	P1	RES-BCT
	10	P2	NEM2A
	11	P3	NEMFCA
	12	P4	NEM2V
	13	P5	NEMVMASH
	14	P6	NEMVMASH Development

RULE 21 GENERATOR INTERCONNECTION APPLICATION (Form 79-1174-02)

Table 2 below summarizes which attachments to this form will be required for each tariffed program.

Table 2 – New Application Form/Attachments as they apply to PG&E's Various Tariffed Programs

Category			Non-Export	NEMEXP	RES-BCT	NEM2A	NEMFC	NEM2V	NEMVMASH
	Main (79-1184)	Customer info							
	INFO	Customer & Project info							
Rule 21 - must complete one of these Attachments	NX	Non-export							
	EX	Export							
Each generating facility must complete one corresponding to technology	T1	Solar							
	T2	Wind							
	T3	Machine		(1)	(1)	(1)		(1)	
	T4	Fuel Cell		(1)	(1)	(1)	(2)	(1)	
	T5	Storage		(3)	(3)	(3)	(3)		
Complete Attachment that corresponds to tariff program for a generating facility	P1	RES-BCT							
	P2	NEM2A							
	P3	Fuel Cell Aggregation							
	P4	NEM2V							
	P5	NEMVMASH Single building							
	P6	NEMVMASH development							

Black – must be complete.

Grey – at least one option in category must be selected

Note (1) – must be fueled with a renewable (RPS-Eligible) fuel.

Note (2) – may be fueled with a non-renewable fuel.

Note (3) – treatment consistent with Decision 14-05-033, if NEM paired.

If an applicant's project has multiple generating facilities, they would need to complete all forms/screens relevant for each generating facility in technology and tariff program (e.g. for NEM2MT).



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT INFO

CUSTOMER AND PROJECT INFORMATION

Part I - Selecting the Study Process

Please check one:

- ☐ Fast Track Process¹.
- ☐ Greater than 1 MW generation facility,
- ☐ Detailed Study (not typical)
 - Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part II – Identifying the Generating Facility Location and Responsible Parties

Project Name:

A. Generating Facility Account Information (What electric service will the Generating Facility be interconnected for parallel operation with PG&E? For aggregated electric accounts provide the primary account and meter information).

Name shown on PG&E service account	Electric Service Agreement ID number - 10-digits	Electric Badge (Meter) Number - 6-10 digits (alpha numeric)

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

		CA	
Meter Location Street Address	City	State	Zip - 5-digits

Please check all that apply:

- ☐ A New Generating Facility interconnection (at an existing service).
- ☐ Physical Changes to an interconnected Generating Facility with previous approval by PG&E (adding PV panels, adding energy storage as an addition or enhancement, changing inverters/turbines or changing load and/or operations).
- ☐ A New interconnection in conjunction with a new service.
 - An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 or Rule21Gen@pge.com.
- ☐ An Interconnection under Direct Access (DA).
 - Customers applying for interconnection who are served under Direct Access by an Electric Service Provider (ESP) must contact their ESP directly for information regarding the options available under their Direct Access contract.

¹ See Electric Rule 21 for FAST TRACK requirements.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT INFO

CUSTOMER AND PROJECT INFORMATION

- ☐ An Interconnection under Community Choice Aggregation Service (CCA Service).
- Customers applying for interconnection who are served under Community Choice Aggregation Service (CCA Service) by a Community Choice Aggregator (CCA) must contact their CCA directly for information regarding the options available under their CCA Service Program.
- ☐ An interconnected non-exporting Generating Facility (load always exceeds generation).

B. Customer Account Contact Information -

Mailing Address			
City		State	Zip - 5-digits
() -	() -		
Business Phone	Home Phone	Fax	Email

C. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contact		Company Name	
Mailing Address			
City		State	Zip - 5-digits
() -	() -		
Business Phone	Fax	Email	
☐ Yes ☐ No			
Does Contractor have Contractors State License Board (CSLB) Number?	Contractors State License Board Number		

D. Project Contact Information (Who is the project manager for this Generating Facility?)

Contact		Company Name	
Mailing Address			



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT INFO

CUSTOMER AND PROJECT INFORMATION

City	State	Zip - 5-digits
() -	() -	
Business Phone	Fax	Email

What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault).	_____
Please indicate the short circuit interrupting rating of the host Customer facility's service panel:	_____

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

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

For Customer applying for interconnection under Schedules

- i) NEM2 – Net Energy Metering Service (including NEM2A – Load Aggregation, Or NEM2MT- Multiple Tariff- with a NEM2 eligible generator), or
- ii) NEM2V – Virtual Net Energy Metering Service, or
- iii) NEM2VMS- Virtual Net Energy Metering For Multifamily Affordable Housing (MASH/NSHP) With Solar Generator(s),

please note, pursuant to California Public Utilities Commission Decision (D.) 16-01-044:

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.

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.

Interconnection Fees

Customers on this tariff must pay for the interconnection of their Generation Facilities as provided in Electric Rule 21.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT NX

NON-EXPORT

Interconnection Agreement Type

Please select one option below:

- ☐ Non-Export A Generating Facility Interconnection Agreement that provides for parallel operation of the Generating Facility, but does not provide for exporting power to PG&E's Electric System. This non-export agreement, however does allow the occasional and uncompensated export of energy to PG&E's Electric System for less than 2 seconds in duration.
- ☐ Uncompensated Export A Generating Facility Interconnection Export Addendum that provides for parallel operation of the Generating Facility and the occasional, continuous, non-compensated, export of generator facilities sized 2 MW or less to PG&E's Electric System. Continuous export is export greater than 60 seconds in duration. This addendum must be executed in concert with the generating facility interconnection agreement.

Third Party Generating Facility Ownership

- ☐ Third Party Owned Generating Facility A Generating Facility Interconnection Agreement that provides for parallel operation of the 3rd Party owned Generating Facility, but does not provide for exporting energy to PG&E's Electric System; as well as a Customer Generation Agreement that defines the relationship between the Customer whose name appears on PG&E's electric service account. If this option is chosen, please complete the Third Party Generating Facility Ownership section below.

Customer Generation Agreement (CGA) (for 3rd Party Generator on Premises) Information (Please identify the PG&E Customer of Record where Generating Facility will be installed). CGA is not applicable to Net Energy Metering 2 (NEM2) Applicants because PG&E and the Customer, not the 3rd Party if any, must enter into the Net Energy Metering Interconnection Agreement.

Company Name to be entered on CGA	Legal Title of Host Facility to be entered on CGA	
Person Executing the CGA	Title of Person Executing the CGA	
	() ____ - ____	
Mailing Address	Phone	E-Mail

Generating Facility Interconnection Agreement (GFIA) for 3rd Party Owner – GFIA Information

- ☐ Generating Facility Interconnection Agreement (GFIA) for 3rd Party Owner will be executed by Contractor

Please identify the Party that will own the Generating Facility.

This Section is not applicable to Net Energy Metering 2 (NEM2) Applicants because PG&E and the Customer, not the 3rd Party if any, must enter into the Net Energy Metering 2 Interconnection Agreement.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT NX

NON-EXPORT

Company Name to be entered on GFIA	Legal Title of Company to be entered on GFIA	
	() ____ - ____	
Mailing Address	Phone	E-Mail

Part II – Generating Facility Operational Details

Operating Modes: Please select one box below:

- ☐ **Parallel Operation:** The Generating Facility will interconnect and operate “in parallel” with PG&E’s Electric System for more than one (1) second.

Please supply all of the information requested for the Generating Facility. Be sure to supply adequate information including diagrams and written descriptions regarding the protective relays that will be used to detect faults or abnormal operating conditions on PG&E’s Electric System.

- ☐ **Inadvertent Export:** The Generating Facility will interconnect and operate, providing unscheduled and uncompensated export of real power for a duration exceeding two (2) seconds but fewer than sixty (60) seconds. The expected frequency of “inadvertent export” occurrences should be less than two occurrences per 24-hour period. Protective Functions, technical requirements and operational limitations are described in Rule 21, Section M.

Be sure to supply adequate information including diagrams and written descriptions regarding the switching device or scheme that will be used to limit the parallel operation period to one second or less. Please also describe the back up or protective device and controls that will trip the Generating Facility should the transfer switch or scheme not complete the transfer in one second or less.

- ☐ **Momentary Parallel Operation (MP):** The Generating Facility will interconnect and operate on a “momentary parallel” basis with PG&E’s Electric System for a duration of one (1) second or less through transfer switches or operating schemes specifically designed and engineered for such operation.

Be sure to supply adequate information including diagrams and written descriptions regarding the switching device or scheme that will be used to limit the parallel operation period to one second or less. Please also describe the back up or protective device and controls that will trip the Generating Facility should the transfer switch or scheme not complete the transfer in one second or less.

- ☐ **Isolated Operation (I):** The Generating Facility will be “isolated” and prevented from becoming interconnected with PG&E’s Electric System through a transfer switch or operating scheme specifically designed and engineered for such operation.

Be sure to supply adequate information including diagrams and written descriptions regarding the isolating switching device or scheme that will be used to prevent the Generating Facility from operating in parallel with PG&E’s Electric System.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT NX

NON-EXPORT

Parallel and Inadvertent Export Options Please select one box below:

- ☐ A **reverse-power protection device** will be installed to measure any export of power and trip the Generating Facility or open an intertie breaker to isolate the Generating Facility if limits are exceeded.
- ☐ An **under-power protection device** will be installed to measure the inflow of power and trip or reduce the output of the Generating Facility if limits are not maintained.
- ☐ The Generating Facility Interconnection Facility equipment has been **certified as non-islanding and the incidental export of power will be limited by the design of the interconnection**. If this option is to be used, the nominal ampere rating of the service entrance equipment (service panel rating) that is used by the host Customer facility is:
_____.
- ☐ The **Gross Nameplate Rating of the Generating Facility will not exceed 50% of the host Customer facility's minimum electrical load over the past 12 months**. If this option is to be used, the minimum load of the host Customer facility must be stated in the space provided above.

The Generating Facility **completely offset their facility load** by being (a) optimally sized to meet their peak demand with load following functionality on the Generator controls and (b) ensuring conditional (inadvertent) export of electric power from the Generation Facility to Distribution Provider's Distribution or Transmission System occurs no more frequently than twice in any 24 hour period and the exports are greater than 2 seconds but no more than more than 60 seconds.

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

Please indicate:

- ☐ Standby / Emergency / Backup - Where the Generating Facility will normally be operated only when PG&E's electric service is not available.
- ☐ Qualifying Facility (QF) Status will be obtained from the FERC for this Generating Facility.

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

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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT EX

EXPORT

Describing the Export Operation

Interconnection Service Requirements: (Please select one box below)

- ☐ Existing Service (currently metered PG&E service)
- ☐ New Generation-only Service (no load other than ancillary required for Generating Facility)
NEMVMASH participants must select either this option or the next
- ☐ New Generation-only Meter Tap (at location of existing service)
NEM2V applicants must select this option

If new generation-only service is needed, please indicate the requested voltage level: (Please select one box below)

- ☐ Secondary (up to 480V)
- ☐ Primary (up to 59 kV)
- ☐ Transmission (60 kV and up)

Power Export:

Generator Nameplate¹ Export (kW) _____

Maximum Expected Facility Net Export (kW) _____

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.

- ☐ Is 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?

¹ Please note that for Generating Facilities larger than 1 MW interconnecting to existing secondary voltage services, the revenue meter may require power loss adjustment.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T1

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
Please indicate the number of each "type" and quantity of Generator being installed Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? 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&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No

INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T1

SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Modules.	Manufacturer Model #. Quantity	Manufacturer Model #. Quantity	Manufacturer Model #. Quantity	Manufacturer Model #. Quantity
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 T1

SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
K - AC Disconnect 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	Manufacturer Model # Rating (amps)	Manufacturer Model # Rating (amps)	Manufacturer Model # Rating (amps)	Manufacturer Model # Rating (amps)
Located within 10 feet of the PG&E meter?	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
L - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
N - Warranty or Service Agreement 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)

☐ Residential	☐ Educational	☐ Industrial
☐ Commercial	☐ Military	☐ Non-Profit
☐ Other Government		



INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT T1

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? _____

☐ 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)

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: _____



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T2

WIND TURBINE TECHNOLOGY

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

Instructions	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "type" and quantity of Generator being installed Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.	Type: _____ Qty.: _____	Type: _____ Qty.: _____	Type: _____ Qty.: _____	Type: _____ Qty.: _____
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Inverter certified? 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&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T2

WIND TURBINE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
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.				
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	__ 3 Wire Delta __ 3 Wire Wye __ 4 Wire Wye	__ 3 Wire Delta __ 3 Wire Wye __ 4 Wire Wye	__ 3 Wire Delta __ 3 Wire Wye __ 4 Wire Wye	__ 3 Wire Delta __ 3 Wire Wye __ 4 Wire Wye



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T2

WIND TURBINE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms
M - Induction Generators Only: Locked Rotor Current: _____ (Amps) Stator Resistance: _____ (%) Stator Leakage Reactance: _____ (%) Rotor Resistance: _____ (%) Rotor Leakage Reactance: _____ (%) If the Generator is of an induction design, please provide the “locked rotor current” value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator’s Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System.	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)
N - Short Circuit Current Produced by Generator	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
O - AC Disconnect 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	Manufacturer _____ Model # _____ Rating (amps) _____ ___ Yes ___ No	Manufacturer _____ Model # _____ Rating (amps) _____ ___ Yes ___ No	Manufacturer _____ Model # _____ Rating (amps) _____ ___ Yes ___ No
P - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No
Q – Warranty or Service Agreement 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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "type" and quantity of Generator being installed. Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? 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&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
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.				



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
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.				
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
M – Synchronous Generators Only: If the Generator is of a synchronous design, please provide the synchronous reactance, transient reactance, and subtransient reactance values supplied by the manufacturer. This information is necessary to determine the short circuit contribution of the Generator and as data in load flow and short circuit computer models of PG&E's Electric System. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System. Synchronous Reactance: _____ (Xd %) Transient Reactance: _____ (Xd %) Subtransient Reactance: _____ (Xd %)				
N - Induction Generators Only: Locked Rotor Current: _____ (Amps) Stator Resistance: _____ (%) Stator Leakage Reactance: _____ (%) Rotor Resistance: _____ (%) Rotor Leakage Reactance: _____ (%) If the Generator is of an induction design, please provide the "locked rotor current" value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System.				
O - Short Circuit Current Produced by Generator	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T3

MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
P – For Generators that are Started as a “Motor” Only: This information is needed only for Generators that are started by “motoring” the generator. See PG&E’s Rule 21, Sections L.3.d. and L.7.b. for significance and additional information. If this question was answered in Part IV, question C of this Application, it need not be answered here. 1. In-Rush Current: _____ (Amps) 2. Host Customer’s Service Entrance Panel (Main Panel) Continuous Current Rating: _____ (Amps)				
Q – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3	1 2 3	1 2 3
R - AC Disconnect 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	Manufacturer _____ Model # _____ Rating (amps) _____ ____ Yes ____ No	Manufacturer _____ Model # _____ Rating (amps) _____ ____ Yes ____ No	Manufacturer _____ Model # _____ Rating (amps) _____ ____ Yes ____ No
S - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
T – Warranty or Service Agreement 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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T4

FUEL CELL TECHNOLOGY

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "type" and quantity of Generator being installed. Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? 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&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T4

FUEL CELL TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter
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.				
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye	____ 3 Wire Delta ____ 3 Wire Wye ____ 4 Wire Wye



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T4

FUEL CELL TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms
M - Short Circuit Current Produced by Generator	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
N – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3	1 2 3	1 2 3
O - AC Disconnect 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	_____ Manufacturer _____ Model # _____ Rating (amps) ☐ Yes ☐ No	_____ Manufacturer _____ Model # _____ Rating (amps) ☐ Yes ☐ No	_____ Manufacturer _____ Model # _____ Rating (amps) ☐ Yes ☐ No
P - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Q – Warranty or Service Agreement 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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "type" and quantity of Generator being installed. Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? 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&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
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 - Energy Storage Electrical Source Function (in addition, please complete section: "Additional Information Required for Energy Storage")	Max kWh Capacity:	Max kWh Capacity:	Max kWh Capacity:	Max kWh Capacity:
	Rated kW Discharge: _____	Rated kW Discharge: _____	Rated kW Discharge: _____	Rated kW Discharge: _____
H - 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.				
I - 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.				
J - 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.				
K - 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 T5

ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
L - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	☐ 3 Wire Delta ☐ 3 Wire Wye ☐ 4 Wire Wye	☐ 3 Wire Delta ☐ 3 Wire Wye ☐ 4 Wire Wye	☐ 3 Wire Delta ☐ 3 Wire Wye ☐ 4 Wire Wye	☐ 3 Wire Delta ☐ 3 Wire Wye ☐ 4 Wire Wye
M - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms	☐ Ungrounded ☐ Solidly Grounded ☐ Ground Resistor ☐ Ohms
N - Short Circuit Current Produced by Generator:	 (Amps)	 (Amps)	 (Amps)	 (Amps)
O – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3	1 2 3	1 2 3
P - AC Disconnect 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	 Manufacturer Model # Rating (amps) ☐ Yes ☐ No	 Manufacturer Model # Rating (amps) ☐ Yes ☐ No	 Manufacturer Model # Rating (amps) ☐ Yes ☐ No



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Q - Energy Storage (ES) System (For important sizing information related to DC-Coupled configurations, see sizing note below).	_____ Manufacturer _____ Model # _____ Quantity of Units	_____ Manufacturer _____ Model # _____ Quantity of Units	_____ Manufacturer _____ Model # _____ Quantity of Units	_____ Manufacturer _____ Model # _____ Quantity of Units
R - Lineside Tap PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.Com for more information.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
S – Warranty or Service Agreement 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

Energy Storage Charging Function:

Rated Charge Demand (Load): _____ kW

Estimated annual Net Energy Usage* of the energy storage device(s): _____ kWh

*Net Energy usage = (kWh input, including charging, storage device auxiliary loads and losses) – (kWh output including discharging)

Will the Distribution Grid be used to charge the storage device: ☐ Yes ☐ No

If no: Provide technical description of control systems including (e.g. Nationally-certified piece of equipment, Relays/metering): _____

Source of energy for Charging: _____

Mechanism to prevent charging from the Distribution System: _____

If Yes: Will charging the storage device(s) increase the host facility’s existing peak load demand:

☐ Yes ☐ No

If Yes: Provide the following loading information:

Amount of added peak demand: _____ kW

If no: Provide technical description of controls systems including:

Charging periods: _____

Mechanism to prevent charging from the Distribution System during host facility peak: _____



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT T5

ENERGY STORAGE TECHNOLOGY

Expedited Interconnection Process Selection for Non-Export Energy Storage:

- ☐ This project meets the requirements identified in Rule 21 Section N and this process is being selected for expedited interconnection.

Note on Sizing (DC-Coupled Configurations)

The size of the storage system in DC-coupled NEM-eligible generator plus storage systems is the lesser of the shared inverter's (or inverters') nameplate capacity (capacities summed) and the storage device's (devices') maximum continuous discharge capacity (capacities summed) listed on the device's (devices') technical specifications sheets. A storage device's maximum continuous discharge capacity may be listed on technical specification sheets using different terminology. Note: PG&E will use common sense to determine whether a device's technical specification sheet includes the appropriate metric for purposes of determining system size, regardless of the terminology used. If that metric is not included, PG&E may rely on the inverter's nameplate rating.

For example:

- What is the maximum continuous discharge capability for each storage unit?
_____ + _____ + _____ + _____ + _____ = . total _____
- What is each inverter's nameplate rating?
_____ + _____ + _____ + _____ + _____ = . total _____



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P1

RES- BCT

-02

Part I – Applicability and Purpose

This *LOCAL GOVERNMENT APPLICATION FOR AN ARRANGEMENT TO TAKE SERVICE ON RATE SCHEDULE RES-BCT WITH INTERCONNECTED ELIGIBLE RENEWABLE GENERATION OF NOT MORE THAN 5 MEGAWATTS* ("RES-BCT Application") allows for a Local Government, as defined in Rate Schedule RES-BCT, to apply for an Arrangement, as defined in Rate Schedule RES-BCT, to take service on PG&E's electric Rate Schedule *RES-BCT NET ENERGY METERING SERVICE FOR LOCAL GOVERNMENT REMOTE RENEWABLE SELF GENERATION*.

For the Local Government's Arrangement (as defined in the RES-BCT tariff), this Application allows a Local Government to:

- Elect one or more Generating Accounts with Eligible Renewable Generating Facilities, as defined in Rate Schedule RES-BCT, where each interconnected Eligible Renewable Generating Facilities at the Arrangement, has a capacity of 5 megawatts (5,000 kW) ("Generating Facility") or less; and
- Interconnect and operate the Eligible Renewable Generating Facilities under the provisions of PG&E's Electric Rule 21;
- Elect one or more, but no more than 50, Benefiting Account to receive the Bill Credit, as defined in Rate Schedule RES-BCT from the Generating Accounts in (a); and
- Elect Bill Credit Allocation Percentages for each of the Generating and Benefiting Accounts.

Local Government has elected to apply for service for its Arrangement on Rate Schedule RES-BCT, which involves the interconnection and operation of its Eligible Renewable Generating Facilities in parallel with PG&E's Electric System, primarily to offset part or all of the Arrangement's own electrical requirements at the affiliated Generating and Benefiting Accounts as listed in Appendix A.

Part II – Designation of Bill Credit Allocation Percentages to RES-BCT Arrangement Accounts

A. Section 1 Instructions

- Complete the section below.

Local Government Name	Address	Date
Name:		
Contact Name:		
Contact Title:		

- Is this application for a new Arrangement or a reallocation for an existing Arrangement? (For an existing Arrangement, Local Governments may not change the Credit Allocation Percentages more frequently than once in any 12 month period.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P1

RES- BCT

-02

☐ This Appendix A to the RES-BCT Application is for an allocation for the initial new Arrangement.

☐ This Appendix A to the RES-BCT Application is for a reallocation for an existing Arrangement.

- Please use the attached Appendix A Section 2 page to list all Benefiting Accounts that are located in the Arrangement that will be taking service on RES-BCT. Include the Generating Account, and all Benefiting Accounts.
- Please note for each row:
 - **Account Type** - check the one box corresponding to the type of account (that is, Generating or Benefiting Account). There must be at least one Generating Account and one Benefiting Account listed. Every row (account) should have one and only one of these 2 boxes checked. *(Required)*. A Rule 21 Application and Interconnection Agreement as described in Section A of the RES-BCT Application will need to be submitted for the Generating Facility at each Generating Account listed below. In the "Designated Account..." column, designate the ONE account to which PG&E should apply any remaining true-up credit as described in the RES-BCT Special Condition 2(h). It may not be the generator account.
 - **Account Address** - Provide an address, including unit number, for all Accounts. *(Required)*
 - **Name** - For Generating and Benefiting Accounts, the Account Holder's name must be entered. *(Required)*
 - **PG&E Account Number** - Enter the PG&E Account number for all accounts. *(Required)*
 - **Otherwise Applicable Rate Schedule** - Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all accounts. *(Required)*
 - **Bill Credit Allocation Percentage** - For each Generating and Benefiting Account listed, enter the Bill Credit Allocation Percentage to the nearest whole percentage. The total of all Bill Credit Allocation Percentages must equal 100%.
 - **Appendix A, Section 2 Page Numbers** - In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages.) Note that no more than 50 Benefiting Accounts may be included in an Arrangement.

Local Governments are encouraged to not allocate more Bill Credit to an account than will be used annually. If any additional Bill Credit pursuant to RES-BCT Special Condition 2 (c),(d) and (g) remains, PG&E will review the true up bills for the Generating Account and Benefiting Accounts to determine if any charges for the generation component of the energy charge remain to be credited. If yes, PG&E will apply the remaining Bill Credit to the Designated Account.



INTERCONNECTION APPLICATION (Form 79-1174-02)
ATTACHMENT P1
RES- BCT

-02

B. Section 2

#	Account Type Check only one box for each row (required field)			Account Address (required field)	For Benefiting and Generating Account, List Name on Account,	(Required field for All Accounts)	(Required field for All Accounts)	(Required Field for All Accounts)
	Generator Account	Benefiting Account	Designated Account Check <u>only one</u> account <u>Must not be a generator account</u>			PG&E Service Agreement Number	Otherwise Applicable Rate Schedule (OAS) under RES-BCT	Bill Credit Allocation Percentage (to the nearest whole percentage)
1	☐	☐	☐					
2	☐	☐	☐					
3	☐	☐	☐					
4	☐	☐	☐					
5	☐	☐	☐					
6	☐	☐	☐					
7	☐	☐	☐					
8	☐	☐	☐					
9	☐	☐	☐					
10	☐	☐	☐					
11	☐	☐	☐					
12	☐	☐	☐					
13	☐	☐	☐					
14	☐	☐	☐					
15	☐	☐	☐					
Total Bill Credit Allocation Percentage for all accounts over all pages must equal 100% _____								

Note 1) The capacity of all Eligible Renewable Generating Facilities on each Generating Account in the Arrangement must not total more than 5 megawatts.

Note 2) There must be no more than 50 Benefiting Accounts in an Arrangement.

Note 3) The Monthly Billing Setup Recovery Charge for the Arrangement from the RES-BCT tariff will be billed to each Generating Account listed, unless otherwise note



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P2

NEMFC LOAD AGGREGATION

As governed by Schedule NEMFC Special Condition 4, for purposes of determining if the eligible Fuel Cell Customer-Generator was a net consumer or a net producer of electricity during each Relevant Period PG&E will aggregate the load of the Fuel Cell Customer-Generator's accounts listed below where the Fuel Cell Customer Generator is the customer of record and the following requirements are met: (i) the accounts are on an applicable time-of-use rate schedule, and (ii) the accounts are located on the property where the Eligible Fuel Cell Electrical Generation Facility is located or on property adjacent or contiguous to that property as long as those properties are solely owned, leased, or rented by the Eligible Fuel Cell Customer-Generator; and (iii) all the accounts are served by the same electric commodity service provider. (i.e. the Eligible Fuel Cell Customer- Generator account and all aggregated accounts must all be on bundled service or all on CCA service, or all on DA service.)

	Meter (Badge) Number	Service Agreement ID	Rate Schedule	Address (Street, City, Zip Code)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P3

NEM2 LOAD AGGREGATION

Part I

This is an appendix to Form 79-1151-02A, 79-978-02, 79-1137-02 or 79-1069-02 as applicable. As governed by Schedule NEM2 Special Condition 7, PG&E will aggregate the load of the Customer-Generator's accounts listed below where the Customer-Generator is the customer of record and the accounts continue to meet the requirements of Special Condition 7 of PG&E's NEM2 tariff as outlined in the Customer Declaration below.

In accordance with this appendix:

- (i) Pursuant to Schedule NEM2 Special Condition 7 the electricity generated by the renewable electrical generation facility and exported to the grid shall be allocated to each of the aggregated meters in proportion to the electrical load served by those meters, and
- (ii) One time set up fee of \$25 is assessed for each account in the NEMA2 arrangement (not to exceed \$500). A \$5 monthly fee will be assessed for each aggregated account. These fees will be billed to the generating account.

Note these fees are subject to change from time to time. Additional monthly fees (for example, but not limited to, minimum charges, meter fees, demand charges) may also apply to each account, as described in that account's otherwise applicable rate schedule,, and

- (iii) Customer-Generator shall permanently be ineligible to receive Assembly Bill (AB) 920 net surplus electricity compensation (NSC), and PG&E shall retain any kilowatt hours in excess of the eligible Customer-Generator's electrical load as determined for each aggregated meter individually. (However, if an Aggregated Account that is not a Generating Account is separated from the Arrangement, and subsequently qualifies for NEM2, it may be eligible for NSC.)

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.

Part II

In accordance with Schedule NEM2, as Customer-Generator you will be required to represent and warrant under penalty of perjury on the interconnection agreement 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



INTERCONNECTION APPLICATION (Form 79-1174-02)

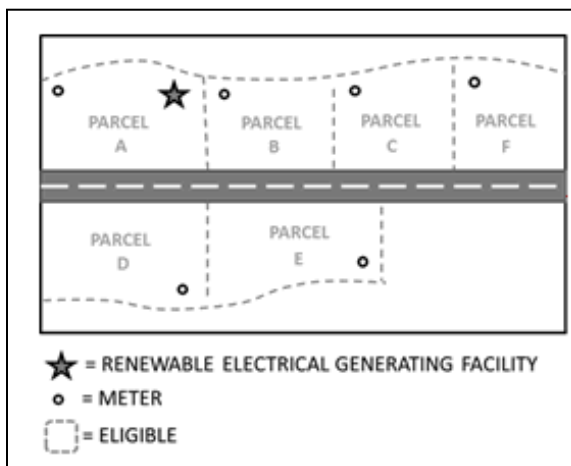
ATTACHMENT P3

NEM2 LOAD AGGREGATION

- 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) You agree to notify PG&E if there is any change of status that makes any of the meters listed in this Appendix ineligible for meter aggregation to ensure that only eligible meters are participating PG&E will require an updated Appendix and Declaration form and
- 5) In the "Variations on Customer Generator Name" fields on the following table, you may provide all variations of your name. By signing the interconnection agreement you attest that as Customer-Generator, you have sole control of all the parcels establishing contiguity for the Arrangement listed on Page 3 of this Appendix.



Variations on Customer-Generator Name
1)
2)
3)
4)
5)

You will have to sign that you understand that "sole control" means that I solely own, lease or rent each parcel or that I have an irrevocable easement that grants me sole use and control of the entire parcel. I understand that other types of easements are not sufficient to establish contiguity for NEM2A.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P3

NEM2 LOAD AGGREGATION

Part III

A. Second Service For Generator

Requesting Second Service for Generator: ☐ Yes ☐ No

For Load Aggregation Arrangements Requesting an additional service for a Generator Account – Subject to all other applicable rules, an additional service may be allowed for the Generating Account if it has no load other than that associated directly with the Renewable Electric Generation Facility. However, a customer may not subsequently add load to that additional service, and if the Renewable Electrical Generation Facility is removed, the additional service, may not be converted to a load account.

B. Minimum Number of Aggregated Load Accounts

A NEM2A Arrangement must have at least two Aggregated Load Accounts. The generator account must have non-generator (existing) load to be counted as an Aggregated Load Account. Generator Accounts interconnected based on Part II A above, will not be counted as an Aggregated Load Account.



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P3

NEM2 LOAD AGGREGATION

NEM2 Load Aggregation Worksheet								
Accounts	PARCEL NUMBER	ACCOUNT NAME ^{1 2}	SERVICE ADDRESS	ELECTRIC ACCOUNT NUMBER ²	ELECTRIC SERVICE AGREEMENT NUMBER ²	ELECTRIC METER NUMBER ²	ELECTRIC RATE SCHEDULE ²	ANNUAL KWH LOAD ³
Generator								
Load Acct 1								
Load Acct 2								
Load Acct 3								
Load Acct 4								
Load Acct 5								
Load Acct 6								
Load Acct 7								
Load Acct 8								
Load Acct 9								
Load Acct 10								
Total Annual kWh								
(For Standard NEM2 Solar/Wind less than 30kW) - 110% of Total Annual kWh								
Estimated Annual kWh Production			Solar = CEC-AC ⁴ rating X 1,664 ⁵ Wind = Total Inverter Nameplate Rating X 2,190 ⁶ Other Technologies = Total Inverter Nameplate Rating X 7,008 ⁷					

¹ If this is a new account, enter *NEW*.

² As listed on your Billing Statement

³ For previous twelve months from date of signature. Please also enter the annual kWh for generator account prior to the generator being installed; if none, enter zero.

⁴ CEC-AC (kW) = California Energy Commission Alternating Current, refers to inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

⁵ Estimated Solar Production = 8,760 hrs/yr X 0.19 solar capacity factor = 1,664

⁶ Estimated Wind Production = 8,760 hrs/yr X 0.25 wind capacity factor = 2,190

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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P4

NEM2V

Part I - General Facility

A. Are there any other generators interconnected on this account?

☐ Yes

If yes, specify what kind of generator _____

☐ No

B. Are there any possible generator meter access issues?

☐ Yes If yes, check all that apply:

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

C. Are any of your accounts on a Demand Response program?

Qualified Customers are eligible for the same demand response programs and solar tariffs as NEM2 customers. Demand response payments to Qualified Customers will be based on the Qualified Customer's metered usage disregarding any contributions from virtually net-metered generation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) should also exclude from consideration any impacts of NEM2V generation.

☐ Yes

If yes, what program are you on? _____

☐ No.

D. Generator Interconnection Tie-in Point – Does your interconnection satisfy PG&E's Meter Standards?

☐ Yes

☐ No. Reason: _____

If after review of a customer's NEM2V application PG&E determines a site assessment is essential, then PG&E may conduct a site assessment. Please note that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.

E. Are you planning to meet the requirements specified in the PG&E Greenbook (current reference is "VNEM Installation Requirements", Utility Bulletin TD6999B-005, 02/06/2012)?

☐ Yes

☐ No. Reason: _____

F. Where are you planning to tie in? Can you provide Switchgear cutsheets, detailing the proposed point of connection and bussing modification / clearances, cutsheets of the NGOM socket, to clearly identify proposed tie-in point?

Location: _____

G. Is the currently proposed tie-in point a result of restrictions placed on altering the existing panel or equipment within, as imposed by the local authority having jurisdiction?

☐ Yes - What restriction? _____

☐ No.

H. Have you confirmed the Ampere Interrupting capacity (AIC) rating of the existing panel?

☐ Yes

☐ No. Reason: _____

I. Are there existing PG&E gas or other utility's facilities in the vicinity of the proposed point of interconnection? (Note: Minimum clearances must be maintained from PG&E facilities, as specified in PG&E's Greenbook)



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P4

NEM2V

- ☐ Yes - Describe: _____
- ☐ No.

J. Are you going to require PG&E to arrange to de-energize the service panel for you to safely connect the generator to the service panel?

(Note: that the de-energizing process may be as simple as a PG&E Troublemaker opening a switch, or as involved as a PG&E crew performing switching, and rearrangement of service wires, and coordinating with neighboring customers that might be impacted by this de-energizing project. **PG&E requires ten (10) business days advance notice prior to performing such a request. Fees may apply.**)

- ☐ Yes - Describe: _____
- ☐ No.

K. Can this de-energizing of the service panel be done during normal business hours?

- ☐ Yes
- ☐ No. If not, what time of the week and time of the day do you request this service disconnection to occur?

Mon Tues Wed Thu Fri Sat Sun
(circle day of week)

_____:____ AM / ____ PM
(enter time & circle AM or PM)

Note- the time of de-energizing the service panel will also depend on whether other customers are impacted and their input to the process.

L. What is the duration of the service disconnection requested?

Duration _____

M. Do you need PG&E personnel to stand by while you perform your work?

- ☐ Yes
- ☐ No

N. Will you need to obtain clearance from the local authority having jurisdiction prior to PG&E re-energizing the service panel?

(Note: Some cities/counties require that they have inspected the panel prior to reenergizing. You will need to provide proof of the local authority that your work will not require such approval, or be prepared to provide that to PG&E prior to PG&E re-energizing the panel).

- ☐ Yes
- ☐ No

INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P4

NEM2V

Part 2 - Designation of NEMV Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

Section 1 Instructions

- a. Please ensure the information on the Customer and Project Information for account information represents the owner as per NEM2V.
- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEM2V Arrangement or for a change to the Allocation for an existing NEM2V facility, as described in either NEM2V Special Condition 2 or 3(g)?
 - ☐ This application is for an allocation for the initial, new NEM2V Arrangement:
 - ☐ This application is for a reallocation for an existing NEM2V Arrangement:
- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEM2V. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEM2V Applicability Section to be Eligible for Schedule NEM2V.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEM2V Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEM2V Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEM2V tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.



INTERCONNECTION APPLICATION (Form 79-1174)
ATTACHMENT P4
NEM2V

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEM2V Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

Is this a reallocation of an existing NEM2V Arrangement? ☐ Yes ☐ No



INTERCONNECTION APPLICATION (Form 79-1174)

ATTACHMENT P4

NEM2V

Part 3 - Generator Interconnection Point Documentation

Applicant shall attach the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

Note: If after review of a customer's NEM2V application PG&E determines a site assessment is needed, then PG&E may conduct a site assessment. Owners are reminded that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P5

NEMVMASH SINGLE SERVICE DELIVERY POINT

Part I - Incentives

If you are applying for a CSI rebate, please check the box for the rebate program under which your NEMVMASH project will receive incentives and understand that you will have to apply for rebates separately.

- ☐ MASH
☐ NSHP

Part II - General Facility

A. Are there any other generators interconnected on this account?

- ☐ Yes
If yes, specify what kind of generator _____
☐ No

B. Are there any possible generator meter access issues?

- ☐ Yes If yes, check all that apply:

☐ Locked Room/Gate	☐ Meter located inside of facility/residence
☐ Unrestrained animal at meter or AC disconnect switch location	☐ Other (Please explain) _____

- ☐ No

C. Are any of your accounts on a Demand Response program?

(For more information on PG&E's demand response programs see: www.pge.com/demandresponse)

- ☐ Yes
If yes, what program are you on? _____
☐ No.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P5

NEMVMASH SINGLE SERVICE DELIVERY POINT

Part I - Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units With Their respective Solar Energy Credit Allocation

- 1) Is this application for a new NEMVMASH Eligible Low Income Facility or a reallocation for an existing NEMVMASH facility? (Existing NEMVMASH facility Owners may not reallocate the Solar Allocation Percentages for all Common Area Accounts and all Residential Unit Accounts for a period of 5 years after first being interconnected on NEMVMASH even if there is a change in Owner. However, after 5 years a reallocation may be requested. Also, a reallocation of credits between the different Common Area Accounts is allowed, and similarly if a residential unit becomes uninhabitable under the terms described in the NEMVMASH tariff in Special Condition 2 g, the Owner may choose to reallocate credits to the other Residential Unit Accounts).

This application is for an allocation for the initial new NEMVMASH Eligible Low Income Facility: ☐

This application is for a reallocation for an existing NEMVMASH Eligible Low Income Facility: ☐

- 2) For a new NEMVMASH Eligible Low Income Facility, if you applied for the Multifamily Affordable Solar Housing Program (MASH), please enter the percentages in the space provided below from the MASH application.

Solar Allocation Percentage for All Common Area Account(s) Listed in the MASH Incentive Application (only required if applying for MASH Track 1a incentives):	Solar Allocation Percentage for All Residential Unit Accounts Listed in MASH Incentive Application (only required if applying for MASH Track 1b incentives):	Both Percentages Must Total 100%
%	%	= 100 %

- 3) Please use the Section 2 to list all accounts that are located in the Eligible Low Income Facility that will be taking service on NEMVMASH. Alternatively, an Applicant may complete the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. Include the Generator Account, all Common Area Accounts (if any) and all Residential Unit Accounts. The Common Area and Residential Unit Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements if any, in the NEMVMASH Applicability Section to be Eligible for Schedule NEMVMASH.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P5

NEMVMASH SINGLE SERVICE DELIVERY POINT

Please note for each row:

- **Account Type** - check the one box corresponding to the type of account (that is, Common Area, Residential Unit or Generator Account). Every row (account) should have one and only one of these 3 boxes checked. *(Required)*
- **Account Address** - Provide an address, including unit number, for all Accounts (for the Generator Account you may use the address of the nearest Common Area Account). *(Required)*
- **Name** - For Common Area Accounts and the Generator Account, the Owner's name must be entered. For Residential Unit Accounts, enter the name of the occupant, if it is known.
- **PG&E Account Number** - Enter the PG&E Account number on all Common Area Accounts and the Generator Account. *(Required)*
- **Otherwise Applicable Rate Schedule** - Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all Common Area Accounts and the desired Generator Account. *(Required)*.
- **Solar Allocation Percentage** - For each Common Area Account and Residential Unit Account listed (but not the Generator Account), enter the Solar Allocation Percentage to two decimal places. The Solar Energy Allocation Percentage for each Residential Unit Account must be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. The total of all Solar Energy Allocation Percentages must equal 100%.
- **Appendix A, Section 2 Page Numbers** - In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages).

If the Eligible Low Income Facility has been on the MASH program for less than 5 years, verify that: (for all pages included).

Total of Solar Allocation Percentages for all the Common Area Accounts (if any) _____.

Total of Solar Allocation Percentage for all the Residential Unit Accounts _____.

These numbers must match the percentages provided in number 3 above (if receiving MASH incentives), from Line 2, and must add up to 100%.



INTERCONNECTION APPLICATION (Form 79-1174)
ATTACHMENT P5
NEMV2MASH

Section 2

#	Account Type Check only one box for each row (required field)			Account Address (required field) (for Generator Account use address of nearest common area account)	For Residential Units, Last Name of Occupant, if known	(Required field for Common Area Accounts and Generator Account only)	(Required field for Common Area Accounts and Generator Account only)	(Required Field for Common Area Accounts and Residential Accounts)
	Common Area	Residential Unit	Generator Account (only 1)		For Common Area and Generator Accounts, Owner's Name (Name on PG&E Account)	PG&E Meter Number	Otherwise Applicable Rate Schedule (OAS) under NEMVMASH	Solar Energy Allocation Percentage
1	☐	☐	☐					
2	☐	☐	☐					
3	☐	☐	☐					
4	☐	☐	☐					
5	☐	☐	☐					
6	☐	☐	☐					
7	☐	☐	☐					
8	☐	☐	☐					
9	☐	☐	☐					
10	☐	☐	☐					
11	☐	☐	☐					
12	☐	☐	☐					
13	☐	☐	☐					
14	☐	☐	☐					
15	☐	☐	☐					
Total Solar Energy Allocation Percentage for this page _____								



INTERCONNECTION APPLICATION (Form 79-1174-02) ATTACHMENT P6 NEMVMASH DEVELOPMENT

Please note that this does not constitute an application for **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact PG&E by phone, or by email using the subject "solar energy" at smarter-energy@pge.com, 1-800-933-9555 (residential) or BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the , Multifamily Affordable Solar Housing (MASH) or the New Solar Homes Partnership (NSHP) for affordable housing, please go to www.pge.com/csi where you will find information about the program, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the California Solar Initiative (CSI), MASH or the NSHP, contact PG&E at solar@pge.com.

If you are applying for a CSI rebate, please check the appropriate box below and continue with this application.

- ☐ I am also applying for a MASH rebate, and understand that I will have to apply for MASH rebates separately.
- ☐ I am also applying for a NSHP rebate, and understand that I will have to apply for the NSHP rebates separately.

Part 1 - General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

☐ Yes

If **yes**, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate	☐ Meter located inside of facility/residence
☐ Unrestrained animal at meter or AC disconnect switch location	☐ Other (Please explain) _____

☐ No

D. Are any of your accounts on a Demand Response program?

(For more information on PG&E's demand response programs see: www.pge.com/demandresponse)

☐ Yes

If **yes**, what program are you on? _____

☐ No.

Please complete this application in its entirety



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P6

NEMVMASH DEVELOPMENT

Part II - Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units With Their respective Solar Energy Credit Allocation

Section 1 Instructions

- 1) Complete the section below (this information must match the Customer Electric Account Contact Information on the associated *Customer and Project Information (79-001)* for the same NEMVMASH Eligible Low Income Facility.

Eligible Low Income Development Name		
Owner Name	Address	Date

- 2) Is this application for a new NEMVMASH Eligible Low Income Development or a reallocation for an existing Eligible Low Income Development? Existing NEMVMASH Development Owners may not reallocate the Solar Allocation Percentages for all Common Area Accounts and all Residential Unit Accounts for a period of 5 years after first being interconnected on NEMVMASH, even if there is a change in Owner. However, after 5 years a reallocation may be requested. Also, a reallocation of credits between the different Common Area Accounts is allowed, and similarly if a residential unit becomes uninhabitable under the terms described in the NEMVMASH tariff in Special Condition 2 g, the Owner may choose to reallocate credits to the other Residential Unit Accounts.

This application is for an allocation for the initial new NEMVMASH Eligible Low Income Development: ☐

This application is for a reallocation for an existing NEMVMASH Eligible Low Income Development: ☐

- 3) A NEMVMASH Eligible Low Income Development on NEMVMASH must either receive incentive funds from the Multifamily Affordable Solar Housing Program (MASH), or the New Solar Homes Partnership (NSHP) for affordable housing, or be eligible to receive funds from the MASH program.

Is this Development receiving funds from either the MASH or NSHP program? Yes ☐ No ☐

If it is not receiving either MASH or NSHP incentives, is it eligible to receive MASH funds? Yes ☐ No ☐

- 4) For a new NEMVMASH Eligible Low Income Development, if you applied for MASH incentives, please enter the percentages in the space provided below from the MASH application.

Solar Allocation Percentage for All Common Area Account(s) Listed in the MASH Incentive Application (only required if applying for MASH Track 1a incentives):	Solar Allocation Percentage for All Residential Unit Accounts Listed in MASH Incentive Application (only required if applying for MASH Track 1b incentives):	Both Percentages Must Total 100%
%	%	= 100 %

- 5) Please use Section 2 to list all accounts that are located in the Eligible Low Income Development that will be taking service on NEMVMASH.

On a building by building basis, please list all participating Generator Accounts, Common Area Accounts (if any) and all Residential Unit Accounts as specified in Section 2.

Please complete this application in its entirety



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P6

NEMVMASH DEVELOPMENT

Please note for each row:

- **Account Type** - check the one box corresponding to the type of account (that is, **Generator Account**, **Common Area** or **Residential Unit**). Every row (account) should have one and only one of these 3 boxes checked. *(Required)*. Additionally, Generator accounts must also list the CEC AC rating in the **Generator Capacity** column and be numbered, starting with "1" in the **Generator Number** column. The sum of all generators' capacities listed must not exceed 1 MW.
 - **Account Address** - Provide an address, including unit number, for all Accounts (for Generator Accounts without an address please specify location in detail). *(Required)*
 - **Name** - For Common Area Accounts and the Generator Account, the Owner's name must be entered. For Residential Unit Accounts, enter the name of the occupant, if it is known.
 - **PG&E Account Number** - Enter the PG&E Account number on all Common Area Accounts and Generator Accounts. *(Required)*.
 - **Otherwise Applicable Rate Schedule** - Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all Common Area Accounts and desired Generator Accounts. *(Required)*.
 - **Total Solar Generation** (bottom of each page) - For each Generator Account total the CEC AC rating. The total of all rating of all Generator Accounts on all pages must equal no more than 1 MW.
 - **Solar Allocation Percentage** (bottom of the each page) - For each Common Area Account and Residential Unit Account listed (but not the Generator Account), enter the Solar Allocation Percentage to two decimal places. The Solar Energy Allocation Percentage for each Residential Unit Account must be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. The total of all Solar Energy Allocation Percentages must equal 100%.
- 6) If the Eligible Low Income Development has been on the MASH program for less than 5 years, verify that: (for all pages included).

Total of Solar Allocation Percentages for all the Common Area Accounts (if any) _____.

Total of Solar Allocation Percentage for all the Residential Unit Accounts _____.

These numbers must match the percentages provided in number 3 above (if receiving MASH incentives), from Line 2, and must add up to 100%.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT P6

NEMVMASH DEVELOPMENT

Section 2 Please list all participating on a building by building basis.

#	Account Type Check only one box for each row (required field)					Account Address (required field) (for Generator Accounts without an address please describe location in detail)	Owner's Name (For Residential Units, Last Name of Occupant, if known For Common Area and Generator Accounts. Use Name as shown on PG&E Account)	PG&E Meter Number (Required field for Common Area Accounts and Generator Account only)	Otherwise Applicable Rate Schedule (OAS) under NEMVMASH (Required field for Common Area Accounts and Generator Account only)	Solar Energy Allocation Percentage (up to 2 decimal places. Required Field for Common Area Accounts and Residential Accounts)
	Generator Account	Generator Number (must complete an Appendix B with a corresponding generator number)	Generator Capacity (must total to no more than 1 MW)	Common Area	Residential Unit					
1	☐			☐	☐					
2	☐			☐	☐					
3	☐			☐	☐					
4	☐			☐	☐					
5	☐			☐	☐					
6	☐			☐	☐					
7	☐			☐	☐					
8	☐			☐	☐					
9	☐			☐	☐					
10	☐			☐	☐					
11	☐			☐	☐					
12	☐			☐	☐					
13	☐			☐	☐					
14	☐			☐	☐					
15	☐			☐	☐					
Total Solar Generation this page							Total Solar Energy Allocation Percentage for this page			



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

Revised
Cancelling Revised

Cal. P.U.C. Sheet No. 48285-E
Cal. P.U.C. Sheet No. 43239-E**

Electric Sample Form No. 79-1186
Customer Information Service
Request For Share My Data CISR-SMD

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5920-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted January 8, 2021
Effective August 18, 2020
Resolution

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ FIRST THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY

This form allows you to voluntarily create a new Authorization to grant a Third Party of your choice access to your PG&E personal, energy usage, energy billing and other program data about you via PG&E's Share My Data (SMD) platform or to modify or revoke an existing Authorization you currently have on the Share My Data platform. This form should be completed by the main Customer Account Holder (name on the PG&E bill).

Pacific Gas and Electric Company's (PG&E's) Gas and Electric Rules 27 and its corresponding privacy policies, which can be found at www.pge.com/about/company/privacy/customer, do not allow for the disclosure of customers' personal information, such as your name, address, phone number, or electric account and billing information, to third parties for purposes other than providing utility services to you or as otherwise required by law, unless you expressly authorize us to do so. This form allows you to exercise your right to disclose personal and energy-related information about you to a Third Party under PG&E's Electric Rule 25 which can be found at https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_RULES_25.pdf. This form may be used to authorize the release of electric-related information for Bundled, Community Choice Aggregation (CCA), Direct Access (DA) customers, and gas-related information for Core End-Use and Noncore End-Use customers. Once you authorize access by a Third Party to personal and energy-related information about you, you are responsible for and agree that you are solely responsible for ensuring that the Third Party safeguards this information from further disclosure without your consent.

If you want to provide data to a Demand Response Provider (DRP), please use "Customer Information Service Request For Demand Response Provider" (CISR-DRP), Form 79-1152.

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, including, without limitation, revisions to the types of customer information to be released.

STEP 1: AUTHORIZATION DETAILS

- ***Please select the action you wish to take:***

- ☐ **CREATE A NEW AUTHORIZATION** – Please Complete [SECTION 1](#)
- ☐ **MODIFY AN EXISTING AUTHORIZATION** – Please Complete [SECTION 2](#)
- ☐ **REVOKE AN EXISTING AUTHORIZATION** – Please Complete [SECTION 3](#)

- ***Your Contact Information:***

First Name: _____ Last Name: _____

Mailing Address: _____

Email Address (Optional): _____

(The email address you provide here will be used for all transactional emails relating to this Authorization.)

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

[SECTION 1: CREATE A NEW AUTHORIZATION]

• **Third Party:**

Please provide the name of the Third Party you authorize to access your data via the Share My Data platform. You may authorize only those third parties who have registered with PG&E to use the Share My Data platform. This form will not be processed if you list a Third Party who has not registered to use the Share My Data platform.

Name of Third Party: _____

(PLEASE NOTE: PG&E has not conducted vendor security reviews on the Share My Data registered Third Parties. Please be sure to read Terms and Conditions offered by the Third Party prior to authorizing the Third Party to access your data.)

• **Data Elements:**

Please select the data elements you wish to authorize (you may select more than one data element):

- ☐ **Basic Information** (Includes name and service address)
- ☐ **Billing Information** (Includes up to 48 months historical, current, and ongoing billing records, billing and meter read dates, rate schedule, and voltage class.)
- ☐ **Account Information** (Includes account number(s), service agreement number(s), and service start date.)
- ☐ **Usage Information** (Includes up to 48 months of historical, current, and ongoing electric and/or gas usage data used for bill calculations, interval usage, and interval time-of-use indicators.)
- ☐ **PG&E Program Enrollment Information** (Includes current and ongoing PG&E Demand Response program name and status, as well as the name and status of other PG&E programs in which you are enrolled.)

• **Authorization Period:**

The Third Party will automatically have access to up to 48 months of historical data from the date the Authorization is created.

Please select the period of time you wish to authorize the Third Party, listed above, to have ongoing access to the data elements selected above:

☐ Ongoing Access Until _____ or until I revoke this Authorization.
[Date]

OR

☐ Indefinitely until I revoke this Authorization.

In all cases, the Authorization for a Service Agreement will be automatically revoked when the Service Agreement is closed by the Customer.

• **Service Agreement IDs to be Authorized:**

Please list the Account Number(s) and Service Agreement ID(s) you, as the Customer Account Holder, are authorizing the specified Third Party to access via the Share My Data platform:

Account Number	Service Agreement ID

(For more than three Service Agreement IDs please attach a separate file)

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

[SECTION 2: MODIFY AN EXISTING AUTHORIZATION]

- **Subscription ID:**

Please provide the Subscription ID associated to the Authorization you wish to modify. Your Subscription ID can be found in the confirmation email sent to you when the Authorization was initially created. If you cannot find your Subscription ID, please contact PG&E Customer Service at (800) 743-5000 for assistance.

Subscription ID: _____

- **Authorization Period:**

[] Ongoing Access Until _____ or until I revoke this Authorization.
[Date]

OR

[] Indefinitely until I revoke this Authorization.

In all cases, the Authorization for a Service Agreement will be automatically revoked when the Service Agreement is closed by the Customer.

- **Service Agreement IDs to be added and/or removed from Authorization by the Customer Account Holder**

If you would like to add or remove Service Agreement IDs from this Authorization, please specify them below.

Account Number	Service Agreement ID	Add	Remove
		☐	☐
		☐	☐
		☐	☐

(For more than three Service Agreement IDs please attach a separate file)

[SECTION 3: REVOKE AN EXISTING AUTHORIZATION]

- **Subscription ID:**

Please provide the Subscription ID associated to the Authorization you wish to revoke. Your Subscription ID can be found in the confirmation email sent to you when the Authorization was initially created. If you cannot find your Subscription ID, please contact PG&E Customer Service at (800) 743-5000 for assistance.

Subscription ID: _____

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

STEP 2: AGREE TO SHARE MY DATA TERMS AND CONDITIONS

Important information: Please read carefully. This is a legally binding agreement.

- **Create a New Authorization or Modify an Existing Authorization:**

I, (First and Last Name of Customer of Record), _____, authorize the designated Third Party to access the Customer of Record Account Holder's personal energy data in accordance with these terms and conditions for the designated Service Agreement(s) as indicated in Section 1 for new Authorizations or Section 2 for modifying an existing Authorization. I understand PG&E reserves the right to verify any authorization request submitted before releasing information on my behalf.

I declare that I am authorized to execute this Authorization manually or electronically on behalf of the Customer of Record Account Holder, and that I have authority to bind the Customer of Record Account Holder. I hereby release, hold harmless, and indemnify PG&E from any liability, claims, demands, and causes of action, damages, or expenses resulting from: (1) any release of information to the Third Party pursuant to this Authorization; (2) the unauthorized use of this information by the Third Party or any other third party; and (3) any actions taken by the Third Party pursuant to this Authorization. I understand that I may revoke this Authorization at any time by submitting a newly completed copy of this form with the Revocation check box selected. I hereby indicate my consent to execute and submit this Authorization electronically.

Signature of Customer

Date

- **Revoke an Existing Authorization:**

I, (First and Last Name of Customer of Record), _____, revoke the Authorization of the designated Third Party to access personal data about me from the designated Service Agreement(s).

I declare that I am authorized to execute this Revocation manually or electronically on behalf of the Customer of Record Account Holder, and that I have authority to bind the Customer of Record Account Holder. I hereby release, hold harmless, and indemnify PG&E from any liability, claims, demands, causes of action, damages, or expenses resulting from: (1) any negligent conduct relating to this Revocation; (2) any refusal to release information to the Third Party pursuant to this Revocation; and (3) any conduct by the Third Party in connection with this Revocation. I hereby indicate my consent to execute and submit this Revocation electronically.

Signature of Customer

Date

STEP 3: SUBMIT FORM VIA EMAIL OR MAIL

Forms can be emailed to:
sharemydata@pge.com

Forms can be mailed to:
Pacific Gas and Electric Company
Share My Data
245 Market Street, N3E
San Francisco, CA 94105



Electric Sample Form No. 79-1191 Sheet 1
Generating Facility Interconnection Agreement for Local Government Renewable Energy
Self-Generation Bill Credit Transfer (RES-BCT)

**Please Refer to Attached
Sample Form**

(Continued)



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

This Generating Facility Interconnection Agreement for Local Government Renewable Energy Self-Generation Bill Credit Transfer (RES-BCT), (Agreement) is entered into by and between

_____, a
_____, (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 Local Government Renewable Energy Self Generation Bill Credit Transfer Generating Facility in parallel with PG&E's Distribution System to serve the 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 California Public Utilities Code (PUC), the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits).

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).

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: _____ kW.

2.6. The Net Nameplate Rating of the Generating Facility is _____ kW.

2.7. The expected annual energy production of the Generating Facility is _____ kWh.



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

- 2.8. For 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 Generating Facility ☐ 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.

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- | Copies of 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 of 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 Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility Pursuant to Section 2830 of the California Public Utilities Code |
| Appendix E- | Producer Certification that it meets the Definition of a Local Government, as Defined in Public Utilities Section 2830(A) |
- 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 19, 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 account through which Producer's Generating Facility is interconnected to PG&E's Distribution System is closed or terminated.
 - (c) At 12:01 A.M. on the 61st day after Producer or PG&E provides written Notice pursuant to Section 11 below to the other Party of Producer's or PG&E's intent to terminate this Agreement.



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

- 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 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) 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 sole 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.
- 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, OPERATION AND CERTIFICATION REQUIREMENTS

- 5.1. 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. 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 11.1 below. If at any time during the term of this Agreement PG&E determines in its sole discretion that Producer's Generating Facility may no longer meet the Cogeneration Requirements, PG&E may require Producer to provide evidence that its 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 Section 216.6 of the PUC. If PG&E



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

determines in its sole 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 Status Change).

5.1.1. PG&E shall revise its records and the administration of this Agreement to reflect the Status Change and provide Notice to Producer of the Status Change pursuant to Section 12.1 below. This Notice shall specify the effective date of the Status Change. This date shall be the first day of the calendar year for which PG&E determines in its sole discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E's Notice shall include an invoice 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 PUC.

5.1.2. Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this Section 5.1, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.

5.2. The Producer certifies that their inverter-based Generating Facilities will upon receiving permission to operate from PG&E fully comply with Section Hh of Rule 21 that is in effect at the time the application is received, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Producer 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 inverter model's 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:

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



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

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

7. DISTRIBUTION UPGRADES

The Distribution Provider shall design, procure, construct, install, and own the Distribution Upgrades described in a Special Facilities Agreement attached to and made a part of this Agreement as Appendix C. The actual cost of the Distribution Upgrades, including overheads, shall be directly assigned to the Interconnection Customer.

8. NETWORK UPGRADES

- 8.1. No portion of this Section 8 shall apply unless the interconnection of the Generating Facility requires Network Upgrades.
- 8.2. The Distribution Provider or the Distribution Owner shall design, procure, construct, install, and own the Network Upgrades required to interconnection this Generating Facility. Unless the Distribution Provider elects to pay for Network Upgrades, the actual cost of the Network Upgrades, including overheads, shall be borne by the Interconnection Customer unless Section 8.2.1 directs otherwise.
 - 8.2.1. To the extent that the CAISO Tariff, as referenced in Rule 21 section E.4, provides for cash repayment to interconnection customers for contribution to the cost of Network Upgrades, the Interconnection Customer shall be entitled to a cash repayment, equal to the total amount paid to the Distribution Provider and Affected System operator, if any, for Network Upgrades, including any tax gross-up or other tax-related payments associated with the Network Upgrades, and not otherwise refunded to the Interconnection Customer, to be paid to the Interconnection Customer on a dollar-for-dollar basis for the non-usage sensitive portion of transmission charges, as payments are made under the Distribution Provider's Tariff and Affected System's Tariff for transmission services with respect to the Generating Facility. Any repayment shall include interest calculated in accordance with the methodology set forth in FERC's regulations at 18 C.F.R. §35.19a(a)(2)(iii) from the date of any payment for Network Upgrades through the date on which the Interconnection Customer receives a repayment of such payment pursuant to this subparagraph. The Interconnection Customer may assign such repayment rights to any person. To the extent that the CAISO Tariff does not provide for cash repayment to interconnection customers for contribution to the cost of Network Upgrades, Interconnection Customer is not entitled to a cash repayment for amounts



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

paid to the Distribution Provider and Affected System operator for Network Upgrades, and no cash repayment shall be made pursuant to this Agreement.

8.2.1.1. If the Interconnection Customer is entitled to a cash repayment pursuant to Article 8.2.1, the Interconnection Customer, the Distribution Provider, and any applicable Affected System operators may adopt any alternative payment schedule that is mutually agreeable so long as the Distribution Provider and said Affected System operators take one of the following actions no later than five years from the Commercial Operation Date: (1) return to the Interconnection Customer any amounts advanced for Network Upgrades not previously repaid, or (2) declare in writing that the Distribution Provider or any applicable Affected System operators will continue to provide payments to the Interconnection Customer on a dollar-for-dollar basis for the nonusage sensitive portion of transmission charges, or develop an alternative schedule that is mutually agreeable and provides for the return of all amounts advanced for Network Upgrades not previously repaid; however, full reimbursement shall not extend beyond twenty (20) years from the commercial operation date.

8.2.1.2. If the Generating Facility fails to achieve commercial operation, but it or another generating facility is later constructed and requires use of the Network Upgrades, the Distribution Provider and Affected System operator shall at that time reimburse the Interconnection Customer for the amounts advanced for the Network Upgrades if the Interconnection Customer is entitled to a cash repayment pursuant to Article 8.2.1. Before any such reimbursement can occur, the Interconnection Customer, or the entity that ultimately constructs the generating facility, if different, is responsible for identifying the entity to which reimbursement must be made.

8.3. Notwithstanding any other provision of this Agreement, nothing herein shall be construed as relinquishing or foreclosing any rights, including but not limited to firm transmission rights, capacity rights, transmission congestion rights, or transmission credits, that the Interconnection Customer shall be entitled to, now or in the future, under any other agreement or tariff as a result of, or otherwise associated with, the transmission capacity, if any, created by the Network Upgrades, including the right to obtain cash reimbursements or transmission credits for transmission service that is not associated with the Generating Facility.



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

9. 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.

10. INSURANCE

10.1. 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."

10.2. The general liability insurance required in Section 10.1 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.

10.3. Evidence of the insurance required in Section 10.2 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.

10.4. 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.



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

- 10.5. If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 10.1 through 10.4:
- (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 10.1.
 - (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 10.1.
- 10.6. All insurance certificates, statements of self-insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted via email or fax to the following:

Pacific Gas and Electric Company
c/o EXIGIS LLC
support@exigis.com
Fax: 646-755-3327

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 Generation Interconnection - Contract
Management
245 Market Street
Mail Code N7L
San Francisco, California 94105-1702

If to Producer:

Producer 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.



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12. REVIEW OF RECORDS AND DATA

- 12.1. 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.
- 12.2. 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.

13. 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.

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 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.



**GENERATING FACILITY INTERCONNECTION
AGREEMENT FOR LOCAL GOVERNMENT
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16. AMENDMENT AND MODIFICATION

This Agreement can only be amended or modified in 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 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.

BY:

	PACIFIC GAS AND ELECTRIC COMPANY
_____ (Producer's Company Name)	
_____ (Signature)	_____ (Signature)
_____ (Print Name)	_____ (Print Name)
_____ (Title)	_____ (Title)
_____ (Date)	_____ (Date)



*Pacific Gas and
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**GENERATING FACILITY INTERCONNECTION
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RENEWABLE ENERGY SELF-GENERATION BILL
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APPENDIX A

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



**GENERATING FACILITY INTERCONNECTION
AGREEMENT FOR LOCAL GOVERNMENT
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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. Upon request, PG&E can provide copies to Producer of Rules “2” and “21.”)



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**GENERATING FACILITY INTERCONNECTION
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APPENDIX C (If Applicable)

RULE 21 "SPECIAL FACILITIES" AGREEMENT
(Formed between the Parties)



**GENERATING FACILITY INTERCONNECTION
AGREEMENT FOR LOCAL GOVERNMENT
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APPENDIX D

**PRODUCER WARRANTY THAT IT MEETS THE REQUIREMENTS
FOR AN ELIGIBLE RENEWABLE GENERATING FACILITY
PURSUANT TO SECTION 2830 OF THE CALIFORNIA PUBLIC
UTILITIES CODE**

Identify the 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	

RES-BCT Producer declares that its Generating Facility:

- (1) meets the requirements of an "Eligible Renewable Generating Facility", as defined in Section 2830(a)(4) of the California Public Utilities Code and
- (2) 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.¹ (Eligibility Requirements).

Included in these eligibility requirements (check as applicable) pursuant to Public Utilities Code section 2830(a)(4) 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 Producer 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 Electric Generation Facility:

☐ Eligible Producer warrants that the Renewable Generation Facility is powered solely with renewable fuel.

¹ The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>



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Eligible Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, Eligible Producer and the Generating Facility shall continue to meet the Eligibility Requirements. If Eligible Producer or the Generating Facility ceases to meet the Eligibility Requirements, Eligible Producer shall promptly provide PG&E with Notice of such change pursuant to Section 12 of this Agreement. If at any time during the term of this Agreement PG&E determines, at its sole discretion, that Eligible Producer or Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Eligible Producer to provide evidence that Eligible Producer and/or 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 Eligible Producer to monitor the Generating Facility's compliance with the Eligibility Requirements. If PG&E determines at its sole judgment that Eligible 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 Eligibility Status shall be deemed ineffective until such time as Eligible Producer again demonstrates to PG&E's reasonable satisfaction that Eligible Producer 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 Producer of the Eligibility Status Change pursuant to Section 12 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 sole discretion that the Eligible Producer and/or Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Eligible 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 Eligible Producer's representations that Eligible Producer and/or Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the provisions of PG&E's Schedule RES-BCT.

Any amounts to be paid or refunded by Eligible 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 Eligible Producer'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,

Producer Signature: _____

Name: _____

Title: _____

Date: _____



GENERATING FACILITY INTERCONNECTION
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CREDIT TRANSFER (RES-BCT)

APPENDIX E

**PRODUCER CERTIFICATION THAT IT MEETS THE DEFINITION OF
A LOCAL GOVERNMENT, AS DEFINED IN PUBLIC UTILITIES
SECTION 2830(A)**

The Producer certifies that it is a Local Government that meets the definition of a "Local Government" as defined in Public Utilities code (PU) Section 2830 (a) (6) and, where applicable, PU Section 2830 (a) (3).

PU Code § 2830 (a) (6) reads as follows:

"Local government" means a city, county, whether general law or chartered, city and county, special district, school district, political subdivision, or other local public agency, but shall not mean a joint powers authority, the state or any agency or department of the state, other than an individual campus of the University of California or the California State University.

And a campus is defined in PU Code 2830 (a) (3) as:

"Campus" means an individual community college campus, individual California State University campus, or individual University of California campus.

In addition applicant certifies that all of the service agreements listed on the submitted Rule 21 Generation Interconnection Application are accounts for this same Local Government.

I am duly authorized to make this certification on behalf of the Local Government submitting this RES-BCT Application.

Name: _____

Title: _____

Authorized Signature: _____

Date _____



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

Revised
Cancelling Revised

Cal. P.U.C. Sheet No. 48287-E
Cal. P.U.C. Sheet No. 45552-E

Electric Sample Form No. 79-726
Electric Standby Service Log Sheet Schedule S

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5920-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted January 8, 2021
Effective August 18, 2020
Resolution

ELECTRIC STANDBY SERVICE LOG SHEET – SCHEDULE S OR SB

Date: _____

Customer: _____

Account ID: _____

Service Agreement ID: _____

Meter Reading Schedule: _____

Generator Location: _____

Name of person completing this form: _____

Telephone #: _____

Email Address: _____

The **Electric Standby Service Log Sheet**, when completed by the customer, is for PG&E's use in administering the adjustment of monthly maximum demand charges in accordance with the terms and conditions of your otherwise applicable rate schedule. To ensure that qualifying adjustments are applied to the next regular billing of electric service, ***this Electric Standby Service Log Sheet should be submitted no later than one (1) day following PG&E's meter reading date via:***

- **Email:** CBStandbyLog@exchange.pge.com, OR
- **Fax:** (415) 973-5155, OR
- **Mail:** Pacific Gas and Electric Company
Attn: CB Standby Support
P.O. Box 770000, Mail Code B12C
San Francisco, CA 94177-0001

[To determine the date your meter will be read, find your serial "letter" on the detail pages of your bill and use PG&E's Meter Reading Schedule (https://www.pge.com/en_US/residential/save-energy-money/analyze-your-usage/your-usage/view-and-share-your-data-with-smartmeter/reading-the-smartmeter/meter-reading-schedule.page)].



Log Sheet

[illegible]

(Attach additional sheets, if necessary. Template for extra sheet is available upon request)



ELECTRIC SCHEDULE E-19
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 20

18. PEAK DAY PRICING DETAILS: (cont.) c. Bill Stabilization: PDP customers will be offered bill stabilization for the initial twelve (12) months unless they opt-out during their initial 45-day period. Bill stabilization ensures that during the initial 12 months under PDP, the customer will not pay more than it would have had it opted-out to the applicable TOU rate.

If a customer terminates its participation on the PDP rate prior to the initial 12 month period expiring, the customer will receive bill stabilization up to the date when the customer terminates its participation. Bill stabilization benefits will be computed on a cumulative basis, based on the earlier of 1) when a customer terminates its participation on the PDP rate or 2) at the end of the initial 12-month period. Any applicable credits will be applied to the customer's account on a subsequent regular bill. Bill stabilization is only available one time per customer. If a customer un-enrolls or terminates its participation on a PDP rate, bill stabilization will not be offered again.

- d. Notification Equipment: Customers, at their expense, must have access to the Internet and an e-mail address or a phone number to receive notification of a PDP event. In addition, all customers can have, at their expense, an alphanumeric pager or cellular telephone that is capable of receiving a text message sent via the Internet, and/or a facsimile machine to receive notification messages.

If a PDP event occurs, customers will be notified using one or more of the above-mentioned systems. Receipt of such notice is the responsibility of the participating customer. PG&E will make reasonable efforts to notify customers, however it is the customer's responsibility to maintain accurate notification contact information, receive such notice and to check the PG&E website to see if an event is activated. PG&E does not guarantee the reliability of the phone, text messaging, e-mail system or Internet site by which the customer receives notification.

PG&E may conduct notification test events once a month to ensure a customer's contact information is up-to-date. These are not actual PDP events and no load reduction is required.

- e. Demand Response Operations Website: Customers can go to www.pge.com/peakdaypricing to view the forecast and history of Peak Day Pricing event days. Customers may manage the means by which they are notified by PG&E for Peak Day Pricing events by contacting PG&E.

(T)
|
|
|
|

The customer's actual energy usage is available on "Your Account". This data may not match billing quality data, and the customer understands and agrees that the data posted to PG&E "Your Account" may be different from the actual bill.

(T)
(T)

- f. Program Operations: A maximum of fifteen (15) PDP events and a minimum of nine (9) PDP events may be called in any calendar year. PG&E will notify customers by 2:00 p.m. on a day-ahead basis when a PDP event will occur the next day. The PDP program will operate year-round and PDP events may be called for any day of the week. PDP events will be called from 2:00 p.m. to 6:00 p.m.
- g. Event Cancellation: PG&E may initiate the cancellation of a PDP event before 4:00 p.m. the day-ahead of a noticed PDP event. If PG&E cancels an event, it will count the cancelled event toward the PDP limits.

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<i>Advice</i>	5920-E-B	<i>Issued by</i>	<i>Submitted</i>	<u>January 8, 2021</u>
<i>Decision</i>		Robert S. Kenney	<i>Effective</i>	<u>August 18, 2020</u>
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79-1048A	Agreement for Unmetered Low Wattage Equipment Connected to Customer-Owned Street Light Facilities	45534-E
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79-1177	Special Contract for Unmetered Service Agreement for Energy Use Adjustments for Network Controlled Dimmable Streetlights - 2014 Pilot Program	35790-E
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ELECTRIC TABLE OF CONTENTS

Sheet 30

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79-1150	Renewable Market Adjusting Tariff Power Purchase Agreement	45535-E
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79-1158	Electric Vehicle Submetering Meter Data Management Agent (MDMA) Registration Agreement	35264-E
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79-1172	Bioenergy Market Adjusting Tariff Power Purchase Agreement	46869-E
79-1173	Energy Efficiency Financing Pilot Programs Authorization or Revocation of Authorization to Release Customer Information	42836-E
79-1178	Plug-In Electric Vehicle Submetering Pilot Phase 2 Submeter MDMA Registration Agreement	37699-E
79-1179	Plug-In Electric Vehicle Submetering Pilot Phase 2 Single Customer-of-Record Enrollment Agreement	45546-E
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79-1186	Share My Data Customer Authorization or Revocation of Authorization Form	48285-E (T)
79-1187	Bioenergy Market Adjusting Tariff Program (BioMAT Program) - Fuel Resource Attestation	37766-E

(Continued)

Attachment 2

Redline Tariffs

For convenience of the reader, PG&E has included redline revisions in Attachment 2. Where Sample Forms have been revised, the entire Sample Form is included in Attachment 1 (clean version), but the redline version in Attachment 2 only includes the pages where the modification has occurs, and excludes pages of the form where only the page numbers, the advice letter number and/or the date has been updated within the footer of the page.

U 39 San Francisco, California

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

Sheet 1

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted _____
Effective _____
Resolution _____

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:
http://www.pge.com/tariffs/tm2/pdf/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)

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:

<http://www.gosolarcalifornia.org/equipment/inverters.php>
<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>.)

**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 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.² (Eligibility Requirements).

² The RPS Guidebooks can be found at: <http://www.energy.ca.gov/renewables/documents/index.html#rps>
<https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

U 39 San Francisco, California

Electric Sample Form No. 79-1102
Section 399.20 Power Purchase Agreement

Sheet 1

**Please Refer to Attached
Sample Form**

*Advice
Decision*

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

Adequacy Benefits. Seller shall purchase all energy required to serve the Facility's on-site load, net of station use, from PG&E pursuant to PG&E's applicable retail rate schedule.

2.2.2 Excess Sale. Seller agrees to sell to PG&E the Facility's gross output in kilowatt-hours, net of Station Use and any on-site use by Seller and transformation and transmission losses to the Delivery Point into the PG&E system. Seller agrees to convey to PG&E all Green Attributes and Resource Adequacy Benefits associated with the energy sold to PG&E.

2.3 Delivery Term. The Seller shall deliver the Product from the Facility to PG&E for a period of (check one) ☐ ten (10), ☐ fifteen (15), or ☐ twenty (20) Contract Years ("Delivery Term"), which shall commence on the first date on which energy is delivered from the Facility to PG&E ("Initial Energy Delivery Date") under this Agreement and continue until the end of the last Contract Year unless terminated by the terms of this Agreement. The Initial Energy Delivery Date shall occur only when all of the following conditions have been satisfied:

(i) the Commercial Operation Date has occurred, if the Facility was not in operation prior to the Execution Date of this Agreement;

(ii) the Facility's status as an Eligible Renewable Energy Resource, is demonstrated by Seller's receipt of certification from the CEC and is registered in WREGIS; and

(iii) as evidence of the Initial Energy Delivery Date, the Parties shall execute and exchange the "Initial Energy Delivery Date Confirmation Letter" attached hereto as Appendix B on the Initial Energy Delivery Date.

2.4 Contract Price. Once both Parties have executed this Agreement PG&E shall pay Seller for each kilowatt hour ("kWh") of the Product delivered to PG&E during each Contract Year for the Delivery Term at the applicable Market Price Referent specified below for the Facility's actual Commercial Operation Date. Payment shall be adjusted by the appropriate Time of Delivery ("TOD") factor listed in Appendix C.

Adopted 2011 Market Price Referents - Long-Term Contracts¹ (Nominal - dollars/kWh)

¹ Note: Using 2011 as the base year, Staff calculates MPRs for 2012-2023 that reflect different project online dates. Link to 2011 MPR Model: <http://www.cpuc.ca.gov/PUC/energy/Renewables/MPR>
<https://www.cpuc.ca.gov/general.aspx?id=5599>

Appendix D**COUNTERPARTY NOTIFICATION AND FORECASTING
REQUIREMENTS****A. NOTIFICATION REQUIREMENTS FOR START-UP AND SHUTDOWN**

Prior to paralleling to or after disconnecting from the electric system, ALWAYS notify your designated Distribution Operator as follows:

1. Call your Distribution Operator for permission to parallel before any start-up.
2. Call your Distribution Operator again after start-up with parallel time.
3. Call your Distribution Operator after any separation and report separation time as well as date and time estimate for return to service.

B. FORECASTING REQUIREMENTS

1. Seller shall abide with all established requirements and procedures described below:

(a) Generating Facilities 1000 kW and greater must comply with the CAISO Tariff and Protocols while generating facilities under 1000 kW must comply with all applicable interconnection, communication and metering rules; and

(b) Generating Facilities 100 kW and greater must provide a weekly forecast of their expected generation output.

2. Weekly Energy Forecasting Procedures.

Seller must meet all of the following requirements specified below:

Beginning the Wednesday prior to the planned Initial Operation of the Generating Facility, Seller will electronically provide PG&E with an Energy Forecast for the next calendar week, by no later than 5 PM Wednesday of the week preceding the week covered by the Energy Forecast.

The Weekly Energy Forecast submitted to PG&E shall:

- a) Not include any anticipated or expected electric energy losses;
- b) Be submitted using PG&E's website at <https://www.pge.com/qie> <http://www.pge.com/odms>, or as otherwise instructed by PG&E;
- c) Include Seller's contact information;

d) Limit Day Ahead forecast changes to no less than 100 kW.

3. Outage and Scheduled Maintenance Reporting Procedures.

Submit outage information by posting on PG&E's website at <https://www.pge.com/qie> ~~http://www.pge.com/odms~~. If the website is unavailable, implement the procedures set forth below:

For project outages, complete the specifics below and submit by email to DAenergy@pge.com and Bilat_Settlements@pge.com

Email subject Field: dd/mm/yyyy – dd/mm/yyyy XYZ Company Project #2 Outage Notification

Email body:

Type of Outage: Planned Outage, Forced Outage, Prolonged Outage

Start Date and Start Time

Estimated or Actual End Date and End Time

Date and time when reported to PG&E and name(s) of PG&E representative(s) contacted.

C. CHANGES TO OPERATING PROCEEDURES.

Seller understands and acknowledges that the specified transmission and scheduling mechanisms, metering requirements, Forecasting , Outage and Scheduling Maintenance Reporting Procedures described therein are subject to change by Buyer from time to time and, upon receipt of Notice of any such changes, Seller agrees to work in good faith to implement any such changes as reasonably deemed necessary by Buyer; provided that such change does not result in an increase cost of performance to Seller hereunder other than de minimis amounts.

U 39 San Francisco, California

Electric Sample Form No. 79-1103
Small Renewable Generator Power Purchase Agreement

Sheet 1

**Please Refer to Attached
Sample Form**

*Advice
Decision*

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

Adequacy Benefits. Seller shall purchase all energy required to serve the Facility's on-site load, net of Station Use, from PG&E pursuant to PG&E's applicable retail rate schedule.

2.2.2 Excess Sale. Seller agrees to sell to PG&E the Facility's gross output in kilowatt-hours, net of Station Use and any on-site use by Seller and transformation and transmission losses to the Delivery Point into the PG&E system. Seller agrees to convey to PG&E all Green Attributes and Resource Adequacy Benefits associated with the energy sold to PG&E.

2.3 Delivery Term. The Seller shall deliver the Product from the Facility to PG&E for a period of (check one) ☐ ten (10), ☐ fifteen (15), or ☐ twenty (20) Contract Years ("Delivery Term"), which shall commence on the first date on which energy is delivered from the Facility to PG&E ("Initial Energy Delivery Date") under this Agreement and continue until the end of the last Contract Year unless terminated by the terms of this Agreement. The Initial Energy Delivery Date shall occur only when all of the following conditions have been satisfied:

(i) the Commercial Operation Date has occurred, if the Facility was not in operation prior to the Execution Date of this Agreement;

(ii) the Facility's status as an Eligible Renewable Energy Resource, is demonstrated by Seller's receipt of certification from the California Energy Commission ("CEC") and is registered in WREGIS; and

(iii) as evidence of the Initial Energy Delivery Date, the Parties shall execute and exchange the "Initial Energy Delivery Date Confirmation Letter" attached hereto as Appendix B on the Initial Energy Delivery Date.

2.4 Contract Price. PG&E shall pay Seller for each kilowatt hour ("kWh") of the Product delivered to PG&E during each Contract Year for the Delivery Term at the applicable Market Price Referent specified below for the Facility's actual Commercial Operation Date. Payment shall be adjusted by the appropriate Time of Delivery ("TOD") factor listed in Appendix C.

Adopted 2011 Market Price Referents - Long-Term Contracts¹ (Nominal - dollars/kWh)

¹ Note: Using 2011 as the base year, Staff calculates MPRs for 2012-2023 that reflect different project online dates. Link to 2011 MPR Model:

<http://www.cpuc.ca.gov/PUC/energy/Renewables/mpr><https://www.cpuc.ca.gov/general.aspx?id=5599>



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX D

Counterparty Notification and Forecasting Requirements

A. NOTIFICATION REQUIREMENTS FOR START-UP AND SHUTDOWN

Prior to paralleling to or after disconnecting from the electric system, ALWAYS notify your designated Distribution Operator as follows:

1. Call your Distribution Operator for permission to parallel before any start-up.
2. Call your Distribution Operator again after start-up with parallel time.
3. Call your Distribution Operator after any separation and report separation time as well as date and time estimate for return to service.

B. FORECASTING REQUIREMENTS

1. Seller shall abide with all established requirements and procedures described below:

(a) Generating Facilities 1000 kW and greater must comply with the CAISO Tariff and Protocols while generating facilities under 1000 kW must comply with all applicable interconnection, communication and metering rules; and

(b) Generating Facilities 100 kW and greater must provide a weekly forecast of their expected generation output.

2. Weekly Energy Forecasting Procedures.

Seller must meet all of the following requirements specified below:

Beginning the Wednesday prior to the planned Initial Energy Delivery Date of the Generating Facility, and every Wednesday thereafter, Seller will electronically provide PG&E with an Energy Forecast for the next calendar week, by no later than 5 PM Wednesday of the week preceding the week covered by the Energy Forecast.

The Weekly Energy Forecast submitted to PG&E shall:

- a) Not include any anticipated or expected electric energy losses;
- b) Be submitted using PG&E's website at <https://www.pge.com/qie> ~~http://www.pge.com/odms~~, or as otherwise instructed by PG&E;
- c) Include Seller's contact information;



SMALL RENEWABLE GENERATOR POWER PURCHASE AGREEMENT

APPENDIX D

Counterparty Notification and Forecasting Requirements

d) Limit Day Ahead forecast changes to no less than 100 kW.

3. Outage and Scheduled Maintenance Reporting Procedures.

Submit outage information by posting on PG&E's website at <https://www.pge.com/qie> ~~http://www.pge.com/odms~~. If the website is unavailable, implement the procedures set forth below:

For project outages, complete the specifics below and submit by email to DAenergy@pge.com and Bilat_Settlements@pge.com

Email subject Field: dd/mm/yyyy – dd/mm/yyyy XYZ Company Project #2 Outage Notification

Email body:

Type of Outage: Planned Outage, Forced Outage, Prolonged Outage

Start Date and Start Time

Estimated or Actual End Date and End Time

Date and time when reported to PG&E and name(s) of PG&E representative(s) contacted.

C. CHANGES TO OPERATING PROCEDURES.

Seller understands and acknowledges that the requirements of Appendix D are subject to change by Buyer from time to time and, upon receipt of Notice of any such changes, Seller agrees to work in good faith to implement any such changes as reasonably deemed necessary by Buyer; provided that such change does not result in an increase cost of performance to Seller other than de minimis amounts.

Electric Sample Form No. 79-1109 Sheet 1
Virtual Net Energy Metering Application and Interconnection Agreement for the
Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less

**Please Refer to Attached
Sample Form**

*Advice
Decision*

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted _____
Effective _____
Resolution _____

C. NEM Transition

Customers receiving service on the current NEMVMASH 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 Schedules NEMVMASH at:

http://www.pge.com/tariffs/tm2/pdf/ELEC_SCHS_NEMVMASH.pdf

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEMVMASH.pdf and Rate Schedule NEM at:

http://www.pge.com/tariffs/tm2/pdf/ELEC_SCHS_NEM.pdf

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEM.pdf for more details.

D. Description of Service (this Agreement is being filed for, check all that apply):

- ☐ A New NEMVMASH Generating Facility interconnection (at an existing service).
- ☐ For Physical Changes to an interconnected NEMVMASH Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEMVMASH interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Solar Energy Generation Credits for an Existing NEMVMASH Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEMVMASH accounts.

E. Owner's Generating Facility Information - Where will the Generating Facility be installed?

Name shown on Owner's PG&E service account (Must Match Owner's Name on PG&E Energy Bill)			
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Home Phone	Fax	Email

F. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contractor		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

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Advice ~~4559-E~~ 4295-G-B/5920-E-B
January 2015 January 2021

G. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

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

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf
[https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC FORMS 79-1095.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf)

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of your Generating Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

Page 3 of 11

Form 79-1109

Advice ~~4559-E~~ 4295-G-B/5920-E-B
January 2015 January 2021

- b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only CEC-certified inverters² will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below.)
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.
3. **Site Diagram** – The site diagram must show the building or buildings that will be included as part of the Eligible Low Income Housing that meets the applicable Service Delivery Point requirements if any, in the Applicability Section of NEMVMASH, the meter locations, and denote where the PV solar generating facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEMVMASH Generating Facility location –
- Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a solar electric Generating Facility 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.
- To the extent that Owner has currently in force property insurance and commercial general liability or personal liability insurance, Owner agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. Pacific Gas and Electric Company shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation. As long as Owner meets the requirements of this section, Owner shall not be required to purchase any additional liability insurance.
- ☐ I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEMVMASH Generating Facility location.
- Insuring Company's Name: _____
- Insurance Policy # _____
- ☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule NEMVMASH Generating Facility location.
5. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**

Internet Agreement Forms

² The CEC's eligible equipment list can be found under the CSI heading at:

www.consumerenergycenter.org/erprobate/equipment.html <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>

U 39 San Francisco, California

Electric Sample Form 79-1124 Sheet 1
Eligible Low Income Development Virtual Net Energy Metering Application and
Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1
Megawatt or Less

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution



NEMVMASH



Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totaling 1 MW or Less



Please note that this agreement does not constitute an application for **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact PG&E by phone, or by email using the subject "solar energy" at smarter-energy@pge.com, 1-800-933-9555 (residential) or BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the , Multifamily Affordable Solar Housing (MASH) or the New Solar Homes Partnership (NSHP) for affordable housing, please go to www.pge.com/csi where you will find information about the program, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the California Solar Initiative (CSI), MASH or the NSHP, contact PG&E at solar@pge.com.

The purpose of this Agreement is to allow Owner to interconnect solar electric generation with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEMVMASH. Owner has elected to interconnect and operate its solar electric Generation in parallel with PG&E's Distribution System, to offset part or all of the Owner's Eligible Low Income Development's own electrical requirements at the affiliated service points as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E along with a completed Supplemental Data Collection Form for Net Energy Metered Generating Facilities to initiate PG&E's interconnection review of the proposed Generating Facility.

C. NEM Transition

Customers receiving service on the current NEMVMASH 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 Schedules NEMVMASH at:

http://www.pge.com/tariffs/tm2/pdf/ELEC_SCHS_NEMVMASH.pdf

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEMVMASH.pdf and Rate Schedule NEM at:

http://www.pge.com/tariffs/tm2/pdf/ELEC_SCHS_NEM.pdf

https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEM.pdf for more details.

charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the *Authorization to Received Customer Information or Act on a Customer's Behalf*, which may be found at:

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf
<https://www.pge.com/includes/docs/pdfs/mybusiness/energysavingsrebates/demandresponse/howtoapply/E79-1095%20Third%20Party%20Authorization.pdf>

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

G. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be e-mailed, along with the required attachments, to the email address below. Any applicable fee payments shall be mailed to:

Payment USPS Mail	Payment Overnight Mail
USPS Mail: PG&E CFM/PPC Department P.O. Box 997340 Sacramento, CA 95899-7340	Overnight Mail: PG&E Customer Fund Management Payment Processing Center 885 Embarcadero Drive West Sacramento, CA 95605

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to NEMVGen@pge.com

H. Required Documentation for Agreement (in addition to that required in Appendix B):

Plat Map – A parcel plot or plat map must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

Site Diagram – The site diagram must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

I. 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.

J. Term Of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. 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 Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMVMASH.

K. Governing Authority

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

L. Appendix A

Attached to this agreement is *Appendix A - Designation of Generator Accounts, and Their Associated Common Area Accounts and Residential Units with Their Respective Solar Credit Allocation*.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of your Generating Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEMVMASH Owner's solar generating facility. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Document and Fee Requirements

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

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner certifies that has submitted the application prior to September 9, 2017, or 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 <http://www.gosolarcalifornia.org/equipment/inverters.php><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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,

Please complete this agreement in its entirety

- (c) the Owner 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 application¹ no later than March 31, 2018, or
- (d) the Owner 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. Owner 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.

Stale Agreements

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

A. Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including a completed Appendix A** *Please note:* the Owner's name (as identified in Part I, Section C) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Common Area accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Common Area accounts will be defaulted to Rate Schedule E-1, establishing how Owner's Common Area Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Owner's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc.). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMVMASH Eligible Low Income Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only CEC-certified inverters² will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.

¹ 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

² The CEC's eligible equipment list can be found under the CSI heading at:

www.consumerenergycenter.org/erprobate/equipment.html! <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>

U 39 San Francisco, California

Electric Sample Form No. 79-1124-02 Sheet 1
Eligible Low Income Development Virtual Net Energy Metering (NEM2VMSH)
Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation
Totaling 1 Megawatt or Less

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

Distribution Provider may require a field verification of the Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 <http://www.gosolarcalifornia.org/equipment/inverters.php> <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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application¹ no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 201

All "existing inverters" are not required to be Smart Inverters and are only subject to Section H of Rule 21. Owner 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.

Document and Fee Requirements

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

Stale Agreements

If this agreement is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEM2VMSH.

A. Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Electric System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at

¹ 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

Please complete this agreement in its entirety



ELIGIBLE LOW INCOME DEVELOPMENT VIRTUAL NET ENERGY METERING (NEM2VMSH) APPLICATION AND INTERCONNECTION AGREEMENT FOR MULTIFAMILY AFFORDABLE HOUSING WITH SOLAR GENERATION

Attachment B

NEM2VMSH Generating Facility Interconnection Agreement

www.pge.com/standardnem). **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including a completed Appendix A** *Please note:* the Owner's name (as identified in Part I, Section C) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Common Area accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Common Area accounts will be defaulted to Rate Schedule E-1, establishing how Owner's Common Area Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Owner's loads relative to the Generating Facility, and the interconnection with PG&E's Electric System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc.). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEM2VMSH Eligible Low Income Facility and utility's Electric System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only CEC-certified inverters² will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below.)
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.
3. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**

² The CEC's eligible equipment list can be found under the CSI heading at:

www.consumerenergycenter.org/erprobate/equipment.html! <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>

U 39 San Francisco, California

Electric Sample Form 79-1125
NEM / NEMV / NEMVMASH Inspection Report

Sheet 1

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

Part I – Customer Information**A. Customer Generating Facility Information – Who is the PG&E Customer for this Generating Facility?**

Generating Facility PG&E Account Holder Name (Must Match Customer Name on PG&E Blue Bill for generator)		PG&E Account Number for Generating Facility	Meter Number (Meter Badge ID)
Account Holder Street Address			
Account Holder City		Account Holder State	Account Holder Zip
Account Holder Billing Mail Address			
Billing City		Billing State	Billing Zip
Business Phone	Cell Phone	Fax	Email

B. Generator Location – Where is the Generating Facility Located?

Contact at Generator Location		
Generator Address		
Generator City	Generator State	Generator Zip
Generator Contact Phone	Fax	Email

☐ This contact person is to be used as PG&E contact and is authorized by Customer to receive confidential Customer information and act on behalf of Customer with respect to this agreement.²

C. Modifications

To your knowledge, has the system been modified in any way? ☐ No ☐ Yes

D. Installation Date

Do you know when this Generating Facility was installed?

☐ No
☐ Yes, Date Installed _____

E. Last Inspection Date

Do you know if this Generating Facility had a prior PG&E inspection?

☐ No
☐ Yes

² Customer must utilize the *Authorization to Receive Customer Information or Act on a Customer's Behalf* form, which may be found at www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf.
https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf.

----- To be completed by Inspector -----

B. Inspector Information

California licensed Electrician Name		Company Name	
Currently Valid California Electrician License Number			
Mailing Address			
City		State	Zip
Business Phone	Fax	Email	

C. Inverters interconnected with PG&E

List all the inverters that currently are interconnected to PG&E at this Generating Facility.

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ³ kW (per unit)	Inverter CEC Rating kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1							
2							

D. Inverter CEC Approved

Are all the inverter models listed above currently listed on the <http://www.gosolarcalifornia.ca.gov/equipment/> <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> website?

☐ Yes ☐ No⁴

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

⁴ Equipment not currently listed on the Go Solar website, or equipment formerly listed but no longer listed, may be subject to additional review or testing before being authorized to continue interconnection with PG&E, depending on the reason it is no longer listed.

E. Photovoltaic Generator Equipment (if applicable)

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

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Nameplate Rating ⁵ kW (per unit)	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity ⁶ (kW)	Inverter number from (C.) above (1 or 2)
1							
2							

F. PV Panels CEC Approved

Are all the PV panel models listed above currently listed on the <http://www.gosolarcalifornia.ca.gov/equipment/> <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> website?

☐ Yes ☐ No⁷

G. Wind Turbine Equipment (if applicable)

List the wind turbine information requested below. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating ⁸ kW (per unit)	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁹	Turbine Output Voltage	Single or Three Phase	Inverter number from (C) above (1 or 2)
1									

H. Wind Turbine CEC Approved

Are all the wind turbine models listed above currently listed on the <http://www.gosolarcalifornia.ca.gov/equipment/> <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> website?

☐ Yes ☐ No⁹

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

⁶ The total capacity is the photovoltaic (PV) panel (or wind turbine) rating times the quantity.

⁷ Id. Footnote 4 above.

⁸ Id. Footnote 6 above.

⁹ Id. Footnote 4 above.

U 39 San Francisco, California

ELECTRIC SAMPLE FORM 79-1131 Sheet 1
NEMV APPLICATION AND INTERCONNECTION AGREEMENT FOR A SOLAR
(PV) OR WIND GENERATING FACILITY OF 1 MW OR LESS

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

G. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Renewable Electric Generation Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements that may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the *Authorization to Receive Customer Information or Act on a Customer's Behalf*, which may be found at:

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardnet/customer_behalf_app.pdf
https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEMV Owner's Renewable Electric Generation Facility. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter Access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 <http://www.gosolarcalifornia.org/equipment/inverters.php> <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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application¹² no later than March 31, 2018, or
- (d) the Owner 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. Owner 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.

Document and Fee Requirements

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

² 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

Stale Agreements

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

Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnemv). **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (7) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including completed Appendices A, B and C.** *Please note:* the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E-20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the

³ The CEC's eligible equipment list can be found under the CSI heading at:

www.consumerenergycenter.org/or/probate/equipment.html <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>

Electric Sample Form No. 79-1131-02
NEM2V Application and Interconnection Agreement for a Solar (PV)
or Wind Generating Facility of 1 MW or Less

Sheet 1

**Please Refer to Attached
Sample Form**



F. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.			

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Renewable Electric Generation Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements that may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the *Authorization to Receive Customer Information or Act on a Customer's Behalf (Form 79-1095)*, which may be found at:

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardnet/customer_behalf_app.pdf
[https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC FORMS 79-1095.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf)

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

Owner must not operate their Renewable Electric Generation Facility in parallel with PG&E's Electric System until they receive written authorization for Parallel Operation from PG&E. Unauthorized Parallel Operation could result in injury to persons and/or damage to equipment and/or property for which the Owner may be liable.

Safe Operation of the Renewable Electric Generation Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEM2V Owner's Renewable Electric Generation Facility. **Please contact Electric Generation Interconnection by email nemvgen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter Access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 <http://www.gosolarcalifornia.org/equipment/inverters.php> <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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application² no later than March 31, 2018, or
- (d) the Owner 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. Owner replacing an "existing inverter" certifies it is being replaced with either:

² 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.



- b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEM2V customers may be able to combine the generator output meter with an incentive meter. See Schedule NEM2V for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings on a single Premises that will be included as part of the NEM2V Arrangement that is located on a single Premises and satisfies the requirements in the Applicability Section of NEM2V, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEM2V Generating Facility location:
- Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility 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.
- ☐ To the extent that Owner has currently in force property insurance and commercial general liability or personal liability insurance, Owner agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. Pacific Gas and Electric Company shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation. As long as Owner meets the requirements of this section, Owner shall not be required to purchase any additional liability insurance.
- ☐ I **have** insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEM2V Generating Facility location.
- Insuring Company's Name: _____
- Insurance Policy # _____
- ☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule NEM2V Generating Facility location.
5. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**

³ The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> www.consumerenergycenter.org/erprebate/equipment.html

Electric Sample Form 79-1137
Interconnection Agreement for Net Metering for a Renewable Electrical
Generation Facility of 1,000 kW or Less, Except Solar Or Wind

Sheet 1

**Please Refer to Attached
Sample Form**

*Advice
Decision*

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

- 2.5 Customer-Generator's otherwise-applicable rate schedule as of the execution of this Agreement is _____.
- 2.6 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.
- 2.7 The Gross Nameplate Rating of the Generating Facility: _____ kW.
- 2.8 The Net Nameplate Rating of the Generating Facility: _____ kW.
- 2.9 The expected annual energy production of the Generating Facility is _____ kWh.
- 2.10 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 <http://www.gosolarcalifornia.org/equipment/inverters.php>
<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 application² 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.

² A complete application consists all of the following without deficiencies:

- 1. A completed Interconnection Application including all supporting documents and required payments, (continued next page)
- 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 FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND

Appendix C

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 or NEMV 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:

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

NEM / NEMV 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.³ (Eligibility Requirements).

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).

³ The RPS Guidebooks can be found at:

<http://www.energy.ca.gov/renewables/documents/index.html#rps>
<https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

ELECTRIC SAMPLE FORM 79-1142
NEMV INTERCONNECTION APPLICATION FOR A RENEWABLE
ELECTRICAL GENERATION FACILITY OF 1 MEGAWATT OR LESS

Sheet 1

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

G. Other Contact Information (This information is optional).

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this Application.			

By checking the boxes above and signing this Application, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Renewable Electric Generation Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this Application is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements that may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the "Authorization to Receive Customer Information or Act on a Customer's Behalf", which may be found at: www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardnet/customer_behalf_app.pdf https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf

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

Part II – Selecting the Study Process

Please check one:

- ☐ Fast Track Process
- ☐ Detailed Study (not typical)
 - Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part III – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

Notwithstanding any other provision of this Application, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger 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. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

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 NEMV Owner's Renewable Electric Generation Facility. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip**

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

Page 3 of 4410

Form 79-1142

Advice-5754-E 4295-G-B/5920-E-B

February 2020 January 2021

code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.

Meter access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Smart Inverters

For Owner applications received on or after September 9, 2017, the Owner 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 Owner's inverter. Owner further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Owner understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Owner 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 <http://www.gesolarcalifornia.org/equipment/inverters.php><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 Owner 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 Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner 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 application¹² no later than March 31, 2018, or
- (d) the Owner 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. Owner 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.

Document and Fee Requirements

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

² 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 Owner final inspection clearance from the governmental authority having jurisdiction over the generating system.

Please complete this agreement in its entirety

Stale Applications

If this Application is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEMV.

A. Application Package:

These documents are needed at the time of application to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the Application package to PG&E.** As PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Application, including completed Appendices A, B and C as well as the Supplemental Data Collection Form (see Part I Section B above)**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Application, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)**, if any, used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the generator manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified equipment will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote below). For generator equipment that is not CEC certified, Applicant may need to provide additional information and/or documentation at PG&E's request.
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the

³ The CEC's eligible equipment list can be found under the CSI heading at: <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists> www.consumerenergycenter.org/crprobate/equipment.html
Please complete this agreement in its entirety

U 39 San Francisco, California

Electric Sample Form 79-1145
Rule 21 Exporting Generator
Interconnection Request

Sheet 1

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

PG&E'S RULE 21 EXPORTING GENERATOR INTERCONNECTION REQUEST

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

4. Application Fee and Detailed Study Deposit as specified in Rule 21 is required to complete this application. Upon receipt of this Interconnection Request and Attachment A, PG&E will send a separate invoice for the applicable fee or deposit. **PLEASE DO NOT INCLUDE ANY CHECKS/MONIES WITH THIS INTERCONNECTION REQUEST.** (Any checks/monies submitted with this IR will be returned to the sender and may result in a delay in the application process.)
5. Attach evidence of Site Exclusivity as specified in Rule 21 Section E.2.d as applicable, and name(s), address(es) and contact information of site owner(s).
6. **Interconnection Request Instructions:** Complete this interconnection request and enter this information into PG&E's web-based form. (PG&E strongly recommends preparing all information and materials before starting the online interconnection request.) The online web-based form can be found at:

<http://www.pge.com/mybusiness/customerservice/nonpgeutility/generateownpower/distributedgeneration/generationrule21/>– https://www.pge.com/en_US/large-business/services/alternatives-to-pge/electric-generation-interconnection.page

Questions concerning PG&E's online interconnection request process can be directed to the Electric Generation Interconnection Department at **rule21gen@pge.com..**

- 7 Representative of Applicant to contact:

[To be completed by Applicant]

Name:

Title:

Company Name:

Street Address:

City, State:

Zip Code:

Phone Number:

Fax Number:

Email Address:

**PG&E'S RULE 21
EXPORTING GENERATOR INTERCONNECTION REQUEST**

8. If the Applicant also requires new Distribution Service, the Distribution Provider will coordinate these efforts with this application. The Applicant must also complete a PG&E Application for Service. 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's Building and Renovation Services Center (BRSC): 1-800-743-7782 to initiate the application for the new Distribution Service. Additional information will be required in conjunction with an application for new Distribution Service.

9. Applicant should be aware that if Applicant has not yet received Rule 21 Screen Q results from PG&E by March 15 following submittal of this IR, Applicant will need to submit, if Applicant voluntarily chooses to do so, an Interconnection Request under PG&E's FERC Wholesale Distribution Tariff (WDT) by the close of the CAISO cluster application window (refer to ~~http://www.aiso.com/docs/2002/06/11/2002061110300427214.html~~ for the exact date) in order to participate in the Transmission Cluster Study for the year. An application under WDT will not impact the results of this Rule 21 study.

10. 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.

11. This Interconnection Request is submitted by:

Legal name of Applicant: _____

By (signature): _____

Name (type or print): _____

Title: _____

Date: _____

U 39 San Francisco, California

Electric Sample Form No. 79-1151A-02 Sheet 1
Agreement And Customer Authorization Net Energy Metering (NEM2)
Internconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Please Refer to Attached
Sample Form**

*Advice
Decision*

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted _____
Effective _____
Resolution _____



AGREEMENT AND CUSTOMER AUTHORIZATION

Net Energy Metering (NEM2) Interconnection

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

- ☐ 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 79-1151-02B 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 accompanying Application Form 79-1151-02B.

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 79-1151-02B, 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 110% 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^A. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on <http://www.pge.com> on the page titled "Access, download, or share usage data." Customers can obtain their usage data from www.pge.com/greenbutton.

^A 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.



AGREEMENT AND CUSTOMER AUTHORIZATION

Net Energy Metering (NEM2) Interconnection

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

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.

E. 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. If a customer would like to opt out from receiving this payment, please visit www.pge.com/nscoptout to complete Form 79-1130 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)*.

F. 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.

G. 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.

Part IV – Interconnection Agreement Provisions – Continued

A. 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.

B. 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.

C. Meter Access

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

D. Stale Agreements

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

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.

E. 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.

F. 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.

G. 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 <http://www.gosolarcalifornia.org/equipment/inverters.php> <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 ^G 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:

^G 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.

U 39 San Francisco, California

Electric Sample Form No. 79-1174
Rule 21 Generator Interconnection Application

Sheet 1

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted _____
Effective _____
Resolution _____



INTERCONNECTION APPLICATION (Form 79-1174) ATTACHMENT INFO

CUSTOMER AND PROJECT INFORMATION

Part I - Selecting the Study Process¹

This Application is not applicable for incentives and/or rebates offered by the Energy Resources Conservation and Development Commission (CEC), the CPUC or any other entity. Please contact those agencies directly or on their respective websites:

www.energy.ca.gov and www.cpuc.ca.gov.

Please check one:

- ☐ Fast Track Process.
- ☐ Detailed Study (not typical)
- Will be either an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

Part II – Identifying the Generating Facility Location and Responsible Parties

Project Name:

A. Generating Facility Account Information (What electric service will the Generating Facility be interconnected for parallel operation with PG&E? For aggregated electric accounts provide the primary account and meter information).

Name shown on PG&E service account

Electric Service
Agreement ID number -
10-digits

Electric Badge (Meter)
Number - 6-10 digits
(alpha numeric)

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

		CA	

Meter Location Street Address

City

State

Zip - 5-digits

Please check all that apply:

- ☐ A New Generating Facility interconnection (at an existing service).
- ☐ Physical Changes to an interconnected Generating Facility with previous approval by PG&E (adding PV panels, adding energy storage as an addition or enhancement, changing inverters/turbines or changing load and/or operations).
- ☐ A New interconnection in conjunction with a new service.
- An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 or Rule21Gen@pge.com.
- ☐ An Interconnection under Direct Access (DA).
- Customers applying for interconnection who are served under Direct Access by an Electric Service Provider (ESP) must contact their ESP directly for information regarding the options available under their Direct Access contract.

¹ For selection of Study Process for Exporting Generating Facilities, please complete the Rule 21 Exporting Generating Facility Interconnection Request Form 79-1145.

U 39 San Francisco, California

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

Sheet 1

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

RULE 21 GENERATOR INTERCONNECTION APPLICATION (Form 79-1174-02)

Part I - Introduction and Overview

A. Applicability: This Generating Facility Interconnection Application (Application) is used to request the interconnection to Pacific Gas and Electric Company's (PG&E) Electric System (over which the California Public Utilities Commission (CPUC) has jurisdiction) one or more of the following¹ tariffs:

- (1) Non-Exporting Generating Facilities;
- (2) NEM2 Solar (PV) (other than PV 30 KW or less)²; or RPS Generating Facilities
- (3) NEM2 California Dept. of Corrections & Rehabilitation
- (4) NEM2A – NEM2 Load Aggregation (under Schedule NEM2)
- (5) NEM2MT- generating facilities subject to multiple tariff treatment
- (6) RES-BCT (Renewable Energy Self-Generation Bill Credit Transfer) Generating Facilities;
- (7) NEMFC / NEMFCA Net Energy Metering for Fuel Cells
- (8) NEM2V – Virtual Net Energy Metering
- (9) NEMVMASH (on a single Service Delivery Point, or for a Low Income Development)

Refer to PG&E's Electric Rule 21 and program tariffs to determine the specific requirements for interconnecting a Generating Facility. Capitalized terms used in this Application, and not otherwise defined herein, shall have the same meanings as defined in PG&E's Rule 21 and Rule 1.

Except as noted in the next paragraph, this Application may be used for any Generating Facility to be operated by, or for, a Customer and/or Interconnection Customer to supplement or serve part or all of its electric energy requirements that would otherwise be provided by PG&E, including distributed generation, cogeneration, emergency, backup, standby generation, and certain Net Energy Metered Generating Facilities. While Customers operating Generating Facilities isolated from PG&E's Electric System are not obligated to enter into an Interconnection Agreement with PG&E, parts of this Application will still need to be completed to satisfy PG&E's notice requirements for operating an isolated Generating Facility as specified in the California Health and Safety Code Section 119085 (b).

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

This Application is not applicable for incentives and/or rebates offered by the Energy Resources Conservation and Development Commission (CEC), the CPUC or any other entity. Please contact those agencies directly or on their respective websites:

www.energy.ca.gov and www.cpuc.ca.gov.

B. Guidelines and Steps for Interconnection: This Application must be completed and sent to PG&E along with the additional information indicated in Part II below to initiate PG&E's interconnection review of

¹ Also when included with Energy Storage (e.g., batteries), or when operating under the provisions of PU Code 218, where permitted.

² For Net Energy Metering Customers with Solar and/or Wind Electric Generating Facilities less than 30 kW that are not paired with Energy Storage, simpler, shorter forms are available from PG&E (i.e., Forms 79-1151-02 A and B). These forms are available on PG&E's website at <http://www.pge.com/gen>.

U 39 San Francisco, California

Electric Sample Form No. 79-1186
Customer Information Service
Request For Share My Data CISR-SMD

Sheet 1

**Please Refer to Attached
Sample Form**

*Advice
Decision*

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

CUSTOMER INFORMATION SERVICE REQUEST FOR SHARE MY DATA (CISR-SMD)

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ FIRST
THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY**

This form allows you to voluntarily create a new Authorization to grant a Third Party of your choice access to your PG&E personal, energy usage, energy billing and other program data about you via PG&E's Share My Data (SMD) platform or to modify or revoke an existing Authorization you currently have on the Share My Data platform. This form should be completed by the main Customer Account Holder (name on the PG&E bill).

Pacific Gas and Electric Company's (PG&E's) Gas and Electric Rules 27 and its corresponding privacy policies, which can be found at www.pge.com/about/company/privacy/customer, do not allow for the disclosure of customers' personal information, such as your name, address, phone number, or electric account and billing information, to third parties for purposes other than providing utility services to you or as otherwise required by law, unless you expressly authorize us to do so. This form allows you to exercise your right to disclose personal and energy-related information about you to a Third Party under PG&E's Electric Rule 25 which can be found at www.pge.com/tariffs/tm2/pdf/ELEC_RULES_25.pdf https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_RULES_25.pdf. This form may be used to authorize the release of electric-related information for Bundled, Community Choice Aggregation (CCA), Direct Access (DA) customers, and gas-related information for Core End-Use and Noncore End-Use customers. Once you authorize access by a Third Party to personal and energy-related information about you, you are responsible for and agree that you are solely responsible for ensuring that the Third Party safeguards this information from further disclosure without your consent.

If you want to provide data to a Demand Response Provider (DRP), please use "Customer Information Service Request For Demand Response Provider" (CISR-DRP), Form 79-1152.

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, including, without limitation, revisions to the types of customer information to be released.

STEP 1: AUTHORIZATION DETAILS

- Please select the action you wish to take:**

- ☐ **CREATE** A NEW AUTHORIZATION – Please Complete [SECTION 1](#)
- ☐ **MODIFY** AN EXISTING AUTHORIZATION – Please Complete [SECTION 2](#)
- ☐ **REVOKE** AN EXISTING AUTHORIZATION – Please Complete [SECTION 3](#)

- Your Contact Information:**

First Name: _____ Last Name: _____

Mailing Address: _____

Email Address (Optional): _____

(The email address you provide here will be used for all transactional emails relating to this Authorization.)

U 39 San Francisco, California

Electric Sample Form No. 79-1191 Sheet 1
Generating Facility Interconnection Agreement for Local Government Renewable Energy
Self-Generation Bill Credit Transfer (RES-BCT)

**Please Refer to Attached
Sample Form**

(Continued)

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution



GENERATING FACILITY INTERCONNECTION AGREEMENT FOR LOCAL GOVERNMENT RENEWABLE ENERGY SELF-GENERATION BILL CREDIT TRANSFER (RES-BCT)

determines in its sole 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 Status Change).

5.1.1. PG&E shall revise its records and the administration of this Agreement to reflect the Status Change and provide Notice to Producer of the Status Change pursuant to Section 12.1 below. This Notice shall specify the effective date of the Status Change. This date shall be the first day of the calendar year for which PG&E determines in its sole discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E's Notice shall include an invoice 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 PUC.

5.1.2. Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this Section 5.1, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.

5.2. The Producer certifies that their inverter-based Generating Facilities will upon receiving permission to operate from PG&E fully comply with Section Hh of Rule 21 that is in effect at the time the application is received, including configuration of protective settings and default settings, in accordance with the specifications therein.

Distribution Provider may require a field verification of the Producer 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 <http://www.gosolarcalifornia.org/equipment/inverters.php> <https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>).

Verification of inverter model's 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:

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



**GENERATING FACILITY INTERCONNECTION
AGREEMENT FOR LOCAL GOVERNMENT
RENEWABLE ENERGY SELF-GENERATION BILL
CREDIT TRANSFER (RES-BCT)**

APPENDIX D

**PRODUCER WARRANTY THAT IT MEETS THE REQUIREMENTS
FOR AN ELIGIBLE RENEWABLE GENERATING FACILITY
PURSUANT TO SECTION 2830 OF THE CALIFORNIA PUBLIC
UTILITIES CODE**

Identify the 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	

RES-BCT Producer declares that its Generating Facility:

- (1) meets the requirements of an "Eligible Renewable Generating Facility", as defined in Section 2830(a)(4) of the California Public Utilities Code and
- (2) 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.¹ (Eligibility Requirements).

Included in these eligibility requirements (check as applicable) pursuant to Public Utilities Code section 2830(a)(4) 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 Producer 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 Electric Generation Facility:

☐ Eligible Producer warrants that the Renewable Generation Facility is powered solely with renewable fuel.

¹ The RPS Guidebooks can be found at: <http://www.energy.ca.gov/renewables/documents/index.html#rps>
<https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

U 39 San Francisco, California

Electric Sample Form No. 79-726
Electric Standby Service Log Sheet Schedule S

Sheet 1

**Please Refer to Attached
Sample Form**

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted _____
Effective _____
Resolution _____

ELECTRIC STANDBY SERVICE LOG SHEET – SCHEDULE S OR SB

Date: _____

Customer: _____

Account ID: _____

Service Agreement ID: _____

Meter Reading Schedule: _____

Generator Location: _____

Name of person completing this form: _____

Telephone #: _____

Email Address: _____

The **Electric Standby Service Log Sheet**, when completed by the customer, is for PG&E's use in administering the adjustment of monthly maximum demand charges in accordance with the terms and conditions of your otherwise applicable rate schedule. To ensure that qualifying adjustments are applied to the next regular billing of electric service, ***this Electric Standby Service Log Sheet should be submitted no later than one (1) day following PG&E's meter reading date via:***

- **Email:** CBStandbyLog@exchange.pge.com, OR
- **Fax:** (415) 973-5155, OR
- **Mail:** Pacific Gas and Electric Company
Attn: CB Standby Support
P.O. Box 770000, Mail Code B12C
San Francisco, CA 94177-0001

[To determine the date your meter will be read, find your serial "letter" on the detail pages of your bill and use PG&E's Meter Reading Schedule

(<http://www.pge.com/meterreading/>)/(<http://www.pge.com/meterreading/>)/(https://www.pge.com/en_US/residential/save-energy-money/analyze-your-usage/your-usage/view-and-share-your-data-with-smartmeter/reading-the-smartmeter/meter-reading-schedule.page)]].



ELECTRIC SCHEDULE E-19
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 20

18. PEAK DAY
PRICING
DETAILS:
(cont.)

- c. Bill Stabilization: PDP customers will be offered bill stabilization for the initial twelve (12) months unless they opt-out during their initial 45-day period. Bill stabilization ensures that during the initial 12 months under PDP, the customer will not pay more than it would have had it opted-out to the applicable TOU rate.

If a customer terminates its participation on the PDP rate prior to the initial 12 month period expiring, the customer will receive bill stabilization up to the date when the customer terminates its participation. Bill stabilization benefits will be computed on a cumulative basis, based on the earlier of 1) when a customer terminates its participation on the PDP rate or 2) at the end of the initial 12-month period. Any applicable credits will be applied to the customer's account on a subsequent regular bill. Bill stabilization is only available one time per customer. If a customer un-enrolls or terminates its participation on a PDP rate, bill stabilization will not be offered again.

- d. Notification Equipment: Customers, at their expense, must have access to the Internet and an e-mail address or a phone number to receive notification of a PDP event. In addition, all customers can have, at their expense, an alphanumeric pager or cellular telephone that is capable of receiving a text message sent via the Internet, and/or a facsimile machine to receive notification messages.

If a PDP event occurs, customers will be notified using one or more of the above-mentioned systems. Receipt of such notice is the responsibility of the participating customer. PG&E will make reasonable efforts to notify customers, however it is the customer's responsibility to maintain accurate notification contact information, receive such notice and to check the PG&E website to see if an event is activated. PG&E does not guarantee the reliability of the phone, text messaging, e-mail system or Internet site by which the customer receives notification.

PG&E may conduct notification test events once a month to ensure a customer's contact information is up-to-date. These are not actual PDP events and no load reduction is required.

- e. Demand Response Operations Website: Customers can go to www.pge.com/peakdaypricing to view the forecast and history of Peak Day Pricing event days. Customers may manage the means by which they are notified by PG&E for Peak Day Pricing events by contacting PG&E. Customers with demands of 200 kW or greater for three consecutive months can use PG&E's demand response operations website located at <https://inter-act.pge.com> for load curtailment event notifications and communications.

The customer's actual energy usage is available at PG&E's demand response operations website or on "MyYour Account". This data may not match billing quality data, and the customer understands and agrees that the data posted to PG&E's demand response operations website or on "MyYour Account" may be different from the actual bill.

- f. Program Operations: A maximum of fifteen (15) PDP events and a minimum of nine (9) PDP events may be called in any calendar year. PG&E will notify customers by 2:00 p.m. on a day-ahead basis when a PDP event will occur the next day. The PDP program will operate year-round and PDP events may be called for any day of the week. PDP events will be called from 2:00 p.m. to 6:00 p.m.

- g. Event Cancellation: PG&E may initiate the cancellation of a PDP event before 4:00 p.m. the day-ahead of a noticed PDP event. If PG&E cancels an event, it will count the cancelled event toward the PDP limits.

(Continued)

Advice
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

**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

Office of Ratepayer Advocates
OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.
SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Semptra 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