

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



April 14, 2023

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**Subject: Energy Division Approval of Interconnection Forms for Net Billing Tariff Implementation in the Pacific Gas and Electric Company Advice Letters 6849-E and 6849-E-A, Southern California Edison Company Advice Letters 4962-E and 4962-E-A, and San Diego Gas & Electric Company Advice Letters 4156-E and 4156-E-A**

Dear Sidney Dietz, Tara Kaushik, and Greg Anderson,

This disposition letter approves the following advice letters (AL), effective March 1, 2023:

- Pacific Gas and Electric Company (PG&E) AL 6849-E—Interconnection forms for Net Billing Tariff (NBT), Pursuant to California Public Utilities Commission Decision 22-12-056, which Directs Pacific Gas and Electric Company to Create the New Net Billing Tariff; and the supplemental AL 6849-E-A;
- Southern California Edison Company (SCE) AL 4962-E—Revision to Interconnection Forms Due to the Implementation of Southern California Edison’s Net Billing Tariff Pursuant to Decision 22-12-056; and the partial supplemental AL 4962-E-A, as modified by a substitute sheet submitted April 11, 2023; and
- San Diego Gas & Electric Company (SDG&E) AL 4156-E—Introduction of New Forms and Modification to Existing Forms to Facilitate Net Billing Tariff Implementation Pursuant to Decision 22-12-056; and the partial supplemental AL 4156-E-A, as modified by substitute sheets submitted April 5, 2023 and April 10, 2023.

California Public Utilities Commission (CPUC) Decision (D.)22-12-056 was approved on December 15, 2023. The decision established the framework for the net billing tariff, a successor to the current net energy metering tariff, referred to as NEM 2.0. Ordering Paragraph 12 of the decision directs PG&E, SCE, and SDG&E (collectively “the utilities”) to file tier 2 Als no later than 45 days after the adoption date of D.22-12-056. The utilities timely filed their Als on January 30, 2023.

On February 21, 2023, the California Solar and Storage Association (CALSSA) submitted protests to the above mentioned Als.

On February 28, 2023, PG&E, SCE, and SDG&E submitted replies to the protests. In SCE's and SDG&E's replies, these utilities indicated their intention to submit supplemental Als at a later date to address the issues raised in the protests.

On February 16, 2023, PG&E submitted supplemental AL 6849-E-A. On March 22, 2023, SCE submitted supplemental AL 4962-E-A, and on April 11, 2023, SCE submitted a substitute sheet to SCE AL 4962-E-A. On March 31, 2023, SDG&E submitted supplemental AL 4156-E-A and on April 5, 2023 and April 10, 2023, SDG&E submitted substitute sheets to SDG&E AL 4156-E-A.

Energy Division finds that the aforementioned PG&E, SCE, and SDG&E Als comply with D.22-12-056 and are approved with an effective date of March 1, 2023. Attachment 1 contains a detailed discussion of the background, protests, replies, supplementals and substitute sheets, and staff's determination.

Please direct any questions regarding Energy Division's findings in this disposition to Erica Petrofsky ([erica.petrofsky@cpuc.ca.gov](mailto:erica.petrofsky@cpuc.ca.gov)).

Sincerely,



Leuwam Tesfai  
Deputy Executive Director for Energy and Climate Policy /  
Director of Energy Division  
California Public Utilities Commission

cc:  
Brad Heavner, Policy Director, California Solar and Storage Association

## Attachment 1

### Background

Pursuant to California Public Utilities Code Section 2827.1, Decision (D.) 22-12-056 was adopted on December 15, 2023. The decision adopted a successor to the net energy metering successor tariff (NEM 2.0) that addressed the guiding principles adopted in D.21-02-011 as well as the requirements of the Public Utilities Code. The net billing tariff (NBT) was established to balance the multiple requirements of the Public Utilities Code and the needs of the electric grid, the environment, participating ratepayers, and all other ratepayers.

Ordering Paragraph 12(f) directed a series of implementation procedures, including directing PG&E, SCE, and SDG&E (collectively “the utilities”) to submit ALs (AL) 45 days after the decision was adopted to update their current NEM 2.0 tariffs and establish future tariffs. Ordering Paragraph 2 directed the utilities to jointly develop a standard oversizing attestation form for NBT customers planning to oversize their systems, and to make this form available to NBT customers no later than 120 days from the adoption of the decision. On January 30, 2023, the utilities each submitted three separate ALs. PG&E AL 6849-E, SCE AL 4962-E, and SDG&E AL 4156-E (the ALs subject to this disposition) were submitted to obtain approval of forms, including the oversizing attestation form, for use with the NEM tariffs and NBT.

In the ALs, the utilities propose modifications to interconnection applications and interconnection agreements for compliance with D.22-12-056. For example, the utilities’ ALs propose changing references from NEM 2.0 and its variants to the new NBT and its variants, replacing NEM 2.0 requirements with NBT requirements, updating tariff descriptions per changes the decision made (such as the NEM 2.0 aggregation legacy period), and adding an oversizing attestation form. In addition, the utilities propose edits to clean up the forms, such as updating contact information. Finally, the utilities propose to retire the current versions of forms that some of the proposed forms would replace.

### Protests and Responses

On February 21, 2023, the California Solar and Storage Association (CALSSA) submitted a protest to PG&E AL 6849-E, SCE AL 4962-E, and SDG&E AL 4156-E. On February 28, 2023, the utilities submitted replies to the aforementioned protest.

#### *Proposed Option to Change Rates*

In its protest, CALSSA states that the ALs’ proposed interconnection applications and agreements would not enable customers applying to take service under the NBT to change electric rates, other than the PG&E interconnection application. To increase efficiency, CALSSA’s protest recommends enabling customers to change rates within the interconnection application process, with the date of the rate change tied to issuance of permission to operate (PTO).

In replies, all three utilities list reasons why they disagree with CALSSA’s recommendation. First, the utilities assert that they would not be able to provide adequate information and support to

customers choosing rate options in the interconnection portal. PG&E and SDG&E clarify that the interconnection process and application teams focus on safe interconnection and Rule 21 compliance. The utilities respectively state that customer representatives from PG&E's Call Center, a specialized team within SCE, and an SDG&E webpage and SDG&E's Customer Care Center would be better able to inform customers of their rate options and eligibility. In addition, the utilities state that for customers with only one available rate choice, they will default customers onto that rate to avoid delays in issuing PTO.

#### *Proposed Question on Disadvantaged Community Location*

CALSSA's protest points out that PG&E and SCE customers living in disadvantaged communities (DAC) are eligible for a higher ACC Plus adder, but states that these utilities' proposed forms would not enable applicants to state whether they understand their property to be in a DAC. To prevent harming customers who erroneously believe they are in a DAC, CALSSA recommends adding this question to PG&E and SCE's interconnection application forms for systems smaller than 30 kW, and then notifying customers of any errors before any further steps are taken.

In its reply, PG&E argues that the recommended question is unnecessary because its billing systems indicate whether properties are in DACs, which will ensure that ACC+ credits are applied to eligible properties. In addition, PG&E states that it intends to include the link to check DAC status in customer-facing materials, so a customer residing in a DAC should be informed of their DAC status throughout the solar sales process and prior to interconnection. Moreover, PG&E states that CALSSA's recommended question would be inefficient because despite the customer-facing materials, some customers may not understand whether they reside in a DAC at the time of application submission, which could lead to incorrect applicant responses, confusion, and increased customer service call volumes and related costs. SCE concurs with PG&E's assessment that the question is unnecessary, but states that it will address CALSSA's concern in a supplemental advice filing by adding attestation language to the application form and the customer agreements.

#### *Proposed Option to Change True-Up Date*

CALSSA's protest states that PG&E and SDG&E's proposed forms would not enable applicants to change their true-up date, and that SCE's proposed true-up date change form appears to be meant for use *after* the customer's system receives PTO. To reduce the number of steps when customers must act, CALSSA recommends enabling customers to choose their true-up date in the interconnection application process.

In their replies, the utilities argue that D.22-12-056 does not direct the utilities to offer customers the opportunity to select a true-up date prior to PTO, but rather directs that the NBT allow customers to request that their true-up date be changed. The utilities conclude that, to have a true-up date that can be changed, a customer must first begin a billing arrangement that establishes a relevant period. PG&E and SCE also assert that customers will be able to make a more informed decision on their relevant period *after* being billed on NBT for a period of time. PG&E states that it allows NEM and NEM 2.0 customers to change their true-up date by calling PG&E directly and PG&E has not received notice of issues with this process. SCE questions the magnitude of the protest's concern, stating that because the NBT will charge customers monthly for energy usage not

credited from energy exports, charges at the time of the true-up will be less significant than current NEM true-ups. SDG&E argues that the request to change a true-up period is not associated with the Rule 21 process that interconnects a customer's Generating Facility to SDG&E's distribution system and should not be included in the interconnection forms. SDG&E states that it will more clearly define the true-up change process in a supplemental AL filing.

#### *Proposed Alternative System Size Calculation*

CALSSA's protest states that the utility interconnection application portals use a standard California Energy Commission (CEC) formula to calculate a solar system's size rating, and that PG&E and SDG&E's proposed forms would not enable applicants to use a different formula, while SCE's would. To promote fairness for customers whose systems generate less energy than average per panel, CALSSA recommends allowing PG&E and SDG&E applicants to use an alternative system size calculation.

In replies, PG&E and SDG&E argue that using the standard CEC-AC rating formula ensures each system is evaluated in an equal and fair way. They argue CALSSA's concern about a system's output being less than this formula reflects is remedied by the oversizing allowed by D.22-12-056.

#### *Proposed Elimination of System Size Validation*

CALSSA's protest states that the ALs' proposed allowance of IOU validation of systems' sizing would leave customers uncertain and give the utilities too much discretion, and that the utilities have not justified the need for such a rule. To clearly inform applicants designing NBT systems of the analysis to which they will be subject, CALSSA recommends striking this part of the proposed forms.

In replies, the utilities argue that the clause does not create new rules, but rather allows the utilities to verify that customers interconnect systems in conformance with the sizing rules specified in the NBT. They state that the clause is appropriate as the impacts of oversizing and whether oversizing will support electrification as D.22-12-056 intended are as yet unknown. They state that this clause will allow them to raise concern if it appears that the oversizing attestation is being abused.

#### *Proposed Option to Update Energy Usage Baseline*

Finally, CALSSA's protest cites Ordering Paragraph 1 (e) of D.22-12-056 that requires the utilities to allow customers who recently increased their energy usage to base their NBT system size on an updated energy usage baseline, but states that neither SCE nor SDG&E's proposed forms would allow this. CALSSA recommends adding a provision allowing this in SCE and SDG&E's forms.

In replies, SCE states that it will make the corrections related to the third bullet inadvertently omitted by SCE in a supplemental filing. SDG&E did not respond.

## Supplemental ALs and Substitute Sheets

On February 16, 2023 (prior to CALSSA's protest), PG&E submitted supplemental AL 6849-E-A to provide redline versions of the forms in AL 6849-E.

On March 22, 2023, SCE submitted supplemental AL 4962-E-A to incorporate additional language in the oversizing attestation section for customers who have recently increased their usage and to incorporate an additional section to enable the applicant and customer to attest to being the resident-owner in a Disadvantaged Community and/or California Indian Country. On April 11, 2023, SCE submitted a substitute sheet to supplemental AL 4962-E-A to incorporate the supplemental's oversizing attestation language that was inadvertently omitted from one of the forms.

On March 31, 2023, SDG&E submitted supplemental AL 4156-E-A to make minor modifications to certain forms due to language that was inadvertently overlooked within the forms. On April 5, 2023, SDG&E submitted substitute sheets to provide redline versions of the forms in supplemental AL 4156-E-A. On April 10, 2023, SDG&E submitted substitute sheets to incorporate additional language in the oversizing attestation section for customers who have recently increased their usage and to correct some incorrect references to tariff names.

## Discussion

Energy Division finds that the supplemental ALs, as modified by substitute sheets in the cases of SCE and SDG&E, comply with D.22-12-056. The following subsections address compliance as regards the issues raised in CALSSA's protest.

### *Proposed Option to Change Rates*

The current systems for customers to change their rates are better able to ensure that customers are fully informed about their options than CalSSA's proposal to permit rate selection in the interconnection process. The protest failed to demonstrate that the current processes are deficient or noncompliant. Additionally, the utilities address CALSSA's concern about delays in PTO by stating that they will default residential customers onto the appropriate rate when only one compliant rate is available. In the event that the utilities seek approval to make additional rates eligible for use with the NBT by residential customers in the future, Energy Division encourages the utilities to create an option at such time for customers to choose among the rates and be moved to an eligible rate in a timely manner that does not delay PTO. CalSSA's protest on this item is rejected.

### *Proposed Question on Disadvantaged Community Location*

As a basic consumer protection, it is important to minimize the likelihood that customers commit to solar installations under a mistaken belief that they will qualify for the higher ACC Plus adder. However, requiring customers to self-certify their DAC status in the interconnection process is unlikely to significantly remedy the consumer protection concern, while any errors would likely lead to interconnection delays. PG&E's customer-facing materials and SCE's proposed form are sufficient and reasonable methods to inform customers of their DAC status. In addition, Energy Division expects reputable solar providers to carefully assess whether a customer is eligible for the higher ACC Plus adder during the solar sales process. CalSSA's protest on this item is rejected.

### *Proposed Option to Change True-Up Date*

The utilities' assertion that direction in D.22-12-056 to allow customers to request that their true-up date be changed from an existing billing arrangement that establishes a relevant period is reasonable. Energy Division agrees with SDG&E's claim that that a request to change a true-up period is not associated with the Rule 21 process upon which interconnection focuses.

CALSSA's goal of reducing the number of steps requiring customers to take affirmative action is laudable. However, CALSSA's protest did not provide evidence that the utilities' proposed true-up change process would be onerous, deficient, or non-compliant. In addition, the Energy Division concurs with the utilities that customers will be able to make a more informed decision on the relevant period after being billed on NBT for a period of time. PG&E's statement that it has not received notice of issues with customers changing their true-up date by calling PG&E and SCE's statement that charges at the time of the true-up will be less significant than current NEM true-ups, provide additional support for the practicality of the utilities' proposed form language. CalSSA's protest on this item is rejected.

### *Proposed Alternative System Size Calculation*

Energy Division agrees with the utilities that using one standard calculation formula, the standard CEC-AC rating formula, ensures each system is evaluated in an equal and fair way. CalSSA's protest on this item is rejected.

### *Proposed Elimination of System Size Validation*

Energy Division does not find support for CALSSA's assertion that granting the utilities' authority to validate solar systems' conformance with sizing rules will create a high degree of uncertainty for customers. Further, the Energy Division sees the need for the ability to verify conformance with the rules that the utilities describe. Therefore, the sentences within the tariffs concerning size verification should remain as proposed. CalSSA's protest on this item is rejected.

### *Proposed Option to Update Energy Usage Baseline*

SCE and SDG&E have corrected this omission in their supplementals and substitute sheets, making this issue moot.

In summary, all protests of PG&E AL 6849-E, SCE AL 4962-E, and SDG&E AL 4156-E are dismissed or resolved by the submission of PG&E AL 6849-E-A, SCE AL 4962-E-A, SDG&E AL 4156-E-A, and their respective substitute sheets. Therefore, Energy Division approves PG&E ALs 6849-E and 6849-E-A, SCE ALs 4962-E and 4962-E-A, and SDG&E ALs 4156-E and 4156-E-A, effective March 1, 2023.



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Regulatory Relations

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San Francisco, CA 94177

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February 16, 2023

**Advice 6849-E-A**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Supplemental: Interconnection forms for Net Billing Tariff (NBT), Pursuant to California Public Utilities Commission Decision 22-12-056, which Directs Pacific Gas and Electric Company to Create the New Net Billing Tariff**

**Purpose**

Pacific Gas and Electric Company (PG&E) hereby submits this Supplemental Tier 2 Advice Letter (AL) to provide redline versions of the NBT Interconnection Forms compared against the previously approved forms for interconnection under PG&E's NEM tariffs (NEM/NEM2). The redlines reflect changes to conform with the language of Net Billing Tariff pursuant to D.22-12-056. Although it is not customary to submit a redline version of new forms, PG&E is submitting this supplemental Advice Letter for transparency and ease of comparison between the existing NEM forms and the new NBT forms. PG&E is eager to interconnect customers after the NEM2 sunset date (April 14, 2023) with the appropriate NBT forms. While this supplemental advice letter provides redline versions of the NBT Interconnection Forms, the rest of original Advice Letter 6849-E remains unchanged.

**Background**

Senate Bill (SB) 656 (Alquist, Stats. 1995, ch. 369), codified at Section 2827 to the Public Utilities Code, established Net Energy Metering (NEM) in California. The statute directed every electric utility in California to develop a standard contract or tariff to allow eligible customer-generators (customers who own and operate an electrical generating facility to offset part or all their own electrical requirements) to receive a financial credit on their electric bills for energy fed back to the utility's grid.

In 2013, Assembly Bill (AB) 327 (Perea, Stats. 2013, ch. 611) added Section 2827.1 to the Public Utilities Code and mandated that the Commission adopt a successor to the existing NEM tariff. Subsequently, the Commission approved Decision (D.) 16-01-044, which adopted a revised NEM tariff, now referred to as NEM2.

On August 27, 2020, the Commission initiated a rulemaking to revisit the NEM tariffs adopted by D.16-01-044. Subsequently, on December 15, 2022, the Commission adopted D.22-12-056, adopting a successor to the current NEM2 tariff, to balance the multiple requirements of the Public Utilities Code and the needs of the electric grid, the environment, participating ratepayers, as well as all other ratepayers.

OP 12b of D.22-12-056 specifies:

“Step 2: Within 45 days of the effective date of this decision, Joint Utilities shall each submit Tier 2 advice letter to provide the details of the successor tariff and all sub-tariffs, as adopted in this decision. Joint Utilities shall coordinate before submitting the advice letters to ensure language uniformity to the extent possible. The individual advice letters shall summarize Joint Utilities’ interpretation of how the successor tariff will be structured and include indicative levels of price components and containing rate factors based on the applicable revenue and associated tariff sheets. Joint Utilities shall ensure language uniformity.”

OP 2 specifies:

“Pacific Gas and Electric Company, San Diego Gas & Electric Company, and Southern California Edison Company (Joint Utilities) shall work together to develop a standard oversizing attestation form for net billing tariff customers planning to oversize their systems for net billing. Joint Utilities shall make this available to net billing customers no later than 120 days from the adoption of this decision.”

As directed by D.22-12-056, OP2, PG&E worked with other IOUs to develop consistent language for the oversizing attestation, subject to minor modifications based on their interconnection form language and processes.

PG&E submits this advice letter only to obtain approval of the NBT Interconnection Forms, including the oversizing attestation, for customers submitting interconnection applications after the NEM2 sunset date (April 14, 2023). PG&E submits this advice letter separately from Advice Letter 6848-E that includes the New Net Billing Tariff details to minimize delay in obtaining approval of the NBT Interconnection Forms.

### **NBT Interconnection Forms**

The NBT Interconnection Forms are derived from previously approved forms for interconnection under PG&E’s NEM tariffs. PG&E proposes the following changes to its filed forms, to comply with D.22-12-056:

- Creates new forms from the original NEM or -02 version to a “-03” suffix version (to be able to distinguish from the original NEM or -02 and -03 forms) modifying the titles where appropriate to the new tariff name.

- Retiring the following forms with -02 ending (79-1174-02, 79-1174-02A, 79-1174-02C, 79-1174-02D, 79-1174-02H, 79-1174-02J, 79-1174-02L, 79-1151B-02) and also 79-1151B, 79-1215.
- Changing the -02 to -03 for the following forms to align with the rest of the 79-1174-03 forms, since these are attachments to the main form (79-1174-03). The language within these forms didn't change since there is no reference to NEM. The -02 version of these forms will be retired. Here are the form numbers (79-1174-02B, 79-1174-02E, 79-1174-02F, 79-1174-02G, 79-1174-02I, 79-1174-02K, 79-1174-02M and 79-1174-02N)
- Changes references to NEM2, NEM2MT, NEM2PS to NBT, NBT-MT, NBT-PS respectively.
- Deleted any reference to the NEM2 tariff (including NEM2A) and any reference to NEM2V, and where appropriate, replaced the information with NBT requirements. In cases where appropriate, forms were combined such that one form can be used for all NEM/NEM2 and NBT applications/agreements.
- Deleted any language not applicable to NBT for Otherwise Applicable Schedule (OAS) and replaced the language with NBT requirements or directed to the NBT where appropriate.
- Added a customer attestation section for an NBT Oversized Generating Facility.
- Replaced the CEC Listed requirement with the Rule 21 Certified/Non-Certified Interconnection Equipment section.

### **Protests**

Pursuant to GO 96-B, General Rule 7.5.1, PG&E requests to maintain the original protest and comment period designated in Advice 6849-E and not reopen the protest period.

### **Effective Date**

PG&E is submitting this advice letter with a Tier 2 designation, which is the same tier designation as the original advice letter, Advice 6849-E. Pursuant to GO 96-B, General Rule 7.5.1, the submittal of a supplement, or of additional information at the request of the reviewing Industry Division, does not automatically delay the effective date of the advice letter. Therefore, PG&E respectfully requests that this supplemental advice letter become effective concurrent with original Advice Letter 6849-E, which is effective March 1, 2023.

### **Notice**

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically to parties shown on the attached list and the parties on the service list for R.20-08-020, R.14-07-002 and A.16-07-015. 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





# 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 (U 39 E)

Utility type:

- ELC       GAS       WATER  
 PLC       HEAT

Contact Person: Stuart Rubio

Phone #: (951)965-8905

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: stuart.rubio@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) #: 6849-E-A

Tier Designation: 2

Subject of AL: Supplemental: Interconnection forms for Net Billing Tariff (NBT), Pursuant to California Public Utilities Commission Decision 22-12-056, which Directs Pacific Gas and Electric Company to Create the New Net Billing Tariff

Keywords (choose from CPUC listing): Compliance

AL Type:  Monthly  Quarterly  Annual  One-Time  Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.22-12-056

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: N/A

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: 3/1/23

No. of tariff sheets: 0

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: N/A

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

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

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

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

California Public Utilities Commission  
Energy Division Tariff Unit Email:  
[EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson  
Title: Director, Regulatory Relations  
Utility/Entity Name: Pacific Gas and Electric Company  
  
Telephone (xxx) xxx-xxxx: (415)973-2093  
Facsimile (xxx) xxx-xxxx:  
Email: PGETariffs@pge.com

Contact Name:  
Title:  
Utility/Entity Name:  
  
Telephone (xxx) xxx-xxxx:  
Facsimile (xxx) xxx-xxxx:  
Email:

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

Clear Form

## **Attachment 2**

Redline Tariff Revisions

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF NBT-NEM2MT)

This *Generating Facility Interconnection Agreement (Multiple Tariff NBT-NEM2MT)* (Agreement) is entered into by and between \_\_\_\_\_ (Producer or Customer-Generator), and Pacific Gas and Electric Company (PG&E) a California Corporation. Producer and PG&E are sometimes also referred to in this Agreement jointly as “Parties” or individually as “Party.” In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

## 1. SCOPE AND PURPOSE

This Agreement provides for Producer to interconnect and operate a Generating Facility in parallel with PG&E’s Electric System to serve the electrical loads at the location identified in Section 2.4 (or for the qualifying energy where permitted under Section 218 of the California Public Utilities Code (PUC). The Generating Facility must be a combination of generators, but must include at least one New NetET Billing Tariff (NBT)EM2 “Eligible customer-generator.” (as defined in PG&E’s Schedule NBTEM2). ~~“Eligible customer-generator” may also include other eligible customer-generators such as NEM2 Renewable Electrical Generation Facility(ies), Renewable Electrical Generation Facility(ies) (as defined in PG&E’s Schedule NEM) or Eligible Fuel Cell Electrical Generating Facility(ies) (as defined in PG&E’s Schedule NEMFC), as allowed under Special Condition 4 of Schedule NBTEM2.~~

- 1.1. This Agreement provides for Producer to operate the Eligible Generator(s) pursuant to the provisions of Section 2827.1 et seq. of the PU Code and the applicable PG&E tariffs ~~for net energy metering~~. This Agreement also provides for Producer to operate its Non-Eligible Generator(s). This Agreement does not provide for retail electrical service by PG&E to Producer. Such arrangements must be made separately between PG&E and Producer.
- 1.2. This Agreement does not address Producer’s account billing and payment for energy consumption. For the Generating Facility as specified in Section 2 of this Agreement, please refer to ~~the applicable PG&E’s Net Billing Tariff (NBT) net energy metered (NEM, NEM2 and/or NBTEM2) tariff schedules~~ for billing and payment protocol.

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

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



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

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

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

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

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

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

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

2.5 The Gross Nameplate Rating of the Generating Facility is:

2.5.1 Eligible Generator(s):

Table with 2 columns and 7 rows listing generator types and their kW ratings. Includes categories like biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, and small hydroelectric generation.

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

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

2.6 The Net Nameplate Rating of the Generating Facility is:



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

2.6.1 Eligible Renewable Electrical Generation Facility Generator(s):

Table with 2 columns and 8 rows listing eligible renewable energy sources: biomass, solar thermal, photovoltaic, wind, geothermal, fuel cell, digester gas, municipal solid waste, landfill gas, ocean wave, ocean thermal, tidal current, and small hydroelectric generation (with storage/batteries details).

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

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

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

2.7.1 Eligible Generator(s):



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

Table with 2 columns and 8 rows listing generating facility types and their capacities in kW. The last row includes 'Storage/Batteries' with fields for amp hours and inverter 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

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.



GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

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

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

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).



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2~~MT)

Appendix E – NBT Oversized Generating Facility Attestation (when applicable)

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

~~Appendix F – NEM2 Load Aggregation Customer Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel~~

Appendix ~~F~~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 ~~G~~H – ~~\_\_\_\_\_~~Schedule ~~NEM, NEM2 and/or NBT, EM2~~ Customer-Generator Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility Pursuant to Section 2827.1 of the California Public Utilities Code.

Appendix ~~H~~I – Operating Requirements for Energy Storage Device(s) (when applicable).

Appendix ~~I~~J – NEMFC Customer Agreement Starting January 1, 2017 Until California Air Resources Board Emission Standard is Established.

3.2 When initially capitalized, whether in the singular or in the plural, the terms used herein shall have the meanings assigned to them either in this Agreement or in PG&E’s Rule 21 Section C.

#### 4. TERM AND TERMINATION

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

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

4.2 Producer may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for any reason. PG&E may elect to terminate this Agreement



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

pursuant to the terms of Section 4.1(c) for one or more of the following reasons:

- (a) A change in applicable rules, tariffs, and regulations, as approved or directed by the California Public Utilities Commission “Commission,” or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E’s ability or obligation to perform PG&E’s duties under this Agreement; or,
  - (b) Unless otherwise agreed to in writing by the Parties, Producer fails to take all corrective actions specified in PG&E’s Notice that Producer’s Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Producer fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to 120 days after the date set forth in Section 2.9, above, as the Generating Facility’s expected date of Initial Operation; or,
  - (d) Producer abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its reasonable opinion, the Generating Facility is non-operational and Producer does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Producer’s apparent abandonment of the Generating Facility affirming Producer’s intent and ability to continue to operate the Generating Facility.
  - (e) Producer makes a change to the physical configuration of the Generating Facility, as declared in Section 2 and Appendix A of this Agreement.
- 4.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission’s rules and regulations, an application to terminate this Agreement.
- 4.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

### 5. GENERATING FACILITY AND OPERATING REQUIREMENTS

- 5.1 Except for that energy delivered to PG&E’s Electric System, electric energy produced by Producer’s Generating Facility shall be used solely to serve electrical loads connected to the electric service account that PG&E uses to interconnect Producer’s Generating Facility (or, where permitted under Section 218 of the PUC, the electric loads of an on-site or neighboring party lawfully connected to Producer’s Generating Facility through Producer’s circuits). Producer shall not use the Generating Facility to serve electrical



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

- 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 ~~NBTEM-2~~ tariff schedules, and applicable safety and performance standards established by the National Electric Code, Institute of Electrical and Electronic Engineers, accredited testing laboratories such as Underwriters Laboratories, rules of the Commission regarding safety and reliability, and any other regulations and laws governing the Interconnection of the Generating Facility.
- 5.4 Producer shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 5.3, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Producer shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Producer’s failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Producer’s Generating Facility.
- 5.5 Producer shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided per the timelines established by the applicable PUC 2827 section, or by Rule 21. Such approval will be provided after PG&E’s receipt of: (1) a completed Generating Facility Interconnection Application (Form 79-1174-~~03-02~~), including all supporting documents and payments as described in the Application; (2) any required ~~NEM-NBT~~ supplemental application forms; (3) a signed and completed Generating Facility Interconnection Agreement (Multiple Tariff ~~NBT-EM2MT~~) (Form 79-1069-~~032~~); (4) a copy of the Producer’s final inspection clearance from the governmental authority having jurisdiction over the Generating Facility; and (5) submission of all applicable payments for reviews, studies, Interconnection Facilities, and Electric System Modifications. Such approval will not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Producer shall notify PG&E at least five (5) business days prior to the initial testing.
- 5.6 In no event shall the delivery of the maximum electric power to PG&E’s Electric System exceed the amount or other limitations specified in Section 2 and Appendix A of this Agreement. If Producer does not regulate its Generating Facility in compliance with the limitations set forth in this Agreement, PG&E



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2~~MT)

may require Producer to disconnect its Generating Facility from PG&E's Electric System until Producer demonstrates to PG&E's reasonable satisfaction that Producer has taken adequate measures to regulate the output of its Generating Facility and control its deliveries of electric power to PG&E. Further, should PG&E determine that Producer's operation of the Generating Facility is causing an unsafe condition or is adversely affecting PG&E's ability to utilize its Electric System in any manner, even if Producer's deliveries of electric power to PG&E's Electric System are within the limitations specified in this Agreement, PG&E may require Producer to temporarily or permanently reduce or cease deliveries of electric power to PG&E's Electric System. Alternatively, the Parties may agree to other corrective measures so as to mitigate the effect of electric power flowing from the Generating Facility to PG&E's Electric System. Producer's failure to comply with the terms of this Section shall constitute a material breach of this Agreement and PG&E may initiate termination in accordance with the terms of Section 4.2(b).

- 5.7 Producer shall not deliver reactive power to PG&E's Electric System unless the Parties have agreed otherwise in writing.
- 5.8 The Generating Facility shall be operated with all of Producer's Protective Functions in service whenever the Generating Facility is operated in parallel with PG&E's Electric System. Any deviation from these requirements may occur only when the Parties have agreed to such deviations in writing.
- 5.9 If Producer declares that its Generating Facility meets the requirements for Cogeneration as such term is used in Section 216.6 of the PUC (or any successor definition of Cogeneration (Cogeneration Requirements), Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet such Cogeneration Requirements, per Appendix D of this Agreement.
- 5.10 ~~In order to promote the safety and reliability of the customer Generating Facility, the applicant certifies that as a part of each interconnection request for a NEM, NEM2 and/or NBTEM2 Generating Facility, that all major solar system components (if any) are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory. In order to promote the safety and reliability of the customer Generating Facility, the applicant certifies that as a part of each interconnection request for a NBT Generating Facility, that all major solar system components (if any) shall comply with Electric Rule No. 21 Sections L.2-L.4 and Section L.7. for interconnecting to the electrical grid.~~
- 5.11 Producer certifies as a part of each interconnection request for a ~~NEM, NEM2 and/or NBTEM2~~ Eligible Generating Facility that
- (i) a warranty of at least 10 years has been provided on all equipment and on



## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2~~MT)

its installation, or

(ii) a 10-year service warranty or executed “agreement” has been provided ensuring proper maintenance and continued system performance.

5.12 Producer ~~rs~~ on this tariff must pay for the interconnection of their ~~NBTEM2~~ Generation Facilities as provided in Electric Rule 21, ~~pursuant to Decision 16-01-044.~~

5.13 If Producer’s Generating Facility includes any energy storage device(s), Distribution Provider may provide requirements that must be met by the Producer prior to initiating Parallel Operation with PG&E’s Distribution System and throughout the term of this Agreement, including but not limited to the requirements set forth in Appendix I of this Agreement.

5.14 Smart Inverters

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

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

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

[https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists.](https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists))

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

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,

## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM~~2MT)

2017 and submitted a complete interconnection application<sup>1</sup> no later than March 31, 2018, or

- (d) the Producer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

### 6. INTERCONNECTION FACILITIES

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

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

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



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF ~~NBT-EM2MT~~)**

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**7. LIMITATION OF LIABILITY**

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

**8. INSURANCE**

8.1 In connection with Producer's performance of its duties and obligations under this Agreement, Producer shall maintain, during the term of this Agreement, general liability insurance with a combined single limit of not less than:

- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is greater than one hundred (100) kW;
- (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; and
- (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is twenty (20) kW or less.
- (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is ten (10) kW or less and Producer's Generating Facility is connected to an account receiving residential service from PG&E.

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

8.2 The general liability insurance required in Section 8.1 shall, by endorsement to the policy or policies, (a) include PG&E as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that PG&E shall not by reason of its inclusion as an additional insured incur liability to the insurance carrier for payment of premium for such insurance; and (d) provide 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

## GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

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agrees that it will maintain such insurance in force for the duration of this Agreement in no less than amounts currently in effect. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operations. Such insurance shall provide for thirty (30) calendar days written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

- 8.4 Evidence of the insurance required in Section 8.2 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- 8.5 Producer agrees to furnish the required certificates and endorsements to PG&E prior to Initial Operation. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.
- 8.6 If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 8.1 through 8.4:
- (a) Producer shall provide to, PG&E, at least thirty (30) calendar days prior to the date of Initial Operation, evidence of an acceptable plan to self-insure to a level of coverage equivalent to that required under Section 8.1.
  - (b) If Producer ceases to self-insure to the level required hereunder, or if Producer are unable to provide continuing evidence of Producer's ability to self-insure, Producer agrees to immediately obtain the coverage required under Section 8.1.
- 8.7 All insurance certificates, statements of self-insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted via email to the following:

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

## 9. NOTICES

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

If to PG&E: Pacific Gas and Electric Company  
Attention: Electric Grid Interconnection - Contract Management



**GENERATING FACILITY  
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P.O. Box 770000  
Mail Code N7L  
San Francisco, CA 94177  
Email: EGIContractMgmt@pge.com

If to Producer:

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

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

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

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

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

- 9.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 9.1.
- 9.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

**10. REVIEW OF RECORDS AND DATA**

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

# GENERATING FACILITY INTERCONNECTION AGREEMENT (MULTIPLE TARIFF ~~NBT-EM2MT~~)

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## 11. ASSIGNMENT

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

## 12. NON-WAIVER

None of the provisions of this Agreement shall be considered waived by a Party unless such waiver is given in writing. The failure of a Party to insist in any one or more instances upon strict performance of any of the provisions of this Agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or the relinquishment of any such rights for the future, but the same shall continue and remain in full force and effect.

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

13.1 This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.

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

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

13.4 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application for change in rates, charges, classification, service, tariff or rule or any agreement relating thereto.

## 14. AMENDMENT AND MODIFICATION

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

## 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,



**GENERATING FACILITY  
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(MULTIPLE TARIFF ~~NBT-EM2MT~~)**

representation, warranty, agreement or other statement not set forth in this Agreement or in the incorporated tariff schedules and rules.

**16. SIGNATURES**

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

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



**GENERATING FACILITY  
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**Appendix A**

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**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 ~~NBT-EM2MT~~)  
Appendix B**

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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](http://www.pge.com/tariffs). Upon request, PG&E can provide copies to Producer of Rules “2” and “21.”)



*Pacific Gas and  
Electric Company®*

**GENERATING FACILITY  
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**Appendix C**

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**APPENDIX C (If Applicable)**

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

**GENERATING FACILITY  
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(MULTIPLE TARIFF ~~NBT-EM2MT~~)  
Appendix D**

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**APPENDIX D (When applicable)**

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

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

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

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

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



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF ~~NBT-EM2MT~~)  
Appendix E ~~GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF ~~NBTEM2MT~~)  
Appendix E~~**

**APPENDIX E (When applicable)**

**NBT Oversized Generating Facility Attestation**

The total annual output of the Generating Facility should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).

Customer is allowed to oversize their Generating Facility. ~~To do so, Customer must check the box below indicating that they have read and attest to the four bullet points listed provided Customer executes this form attesting as follows:~~

~~I (Customer/Generator) attest as follows:~~

- My Generation Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);
- The Generating Facility's estimated annual production in kWh is no larger than: (a) -150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). **OR**, my electrical usage has recently increased, and the Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.
- I expect to increase my electrical usage to correspond with the size of my Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).
- I understand that PG&E reserves the right to further validate that my Generating Facility is sized in accordance with the Net Billing Tariff (NBT).

By signing below, I declare under penalty of perjury under the laws of the State of California that the information provided in this Attestation is true and correct.

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

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

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

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

\_\_\_\_\_

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
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Appendix E~~**

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*Title*

**~~PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS A  
"DISTRIBUTED ENERGY RESOURCES GENERATION" FACILITY  
PURSUANT TO SECTION 353.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE~~**

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

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

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



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF ~~NBT-EM2MT~~)  
Appendix E **GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF ~~NBTEM2MT~~)  
Appendix E****

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~~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 **NBTEM2MT**)**

**Appendix EF**

**APPENDIX F (When applicable)**

**NBTEM2 LOAD AGGREGATION APPENDIX (If Applicable)**

**CUSTOMER-GENERATOR DECLARATION WARRANTING NBTEM2 AGGREGATION IS LOCATED ON SAME OR ADJACENT OR CONTIGUOUS PROPERTY TO GENERATOR PARCEL**

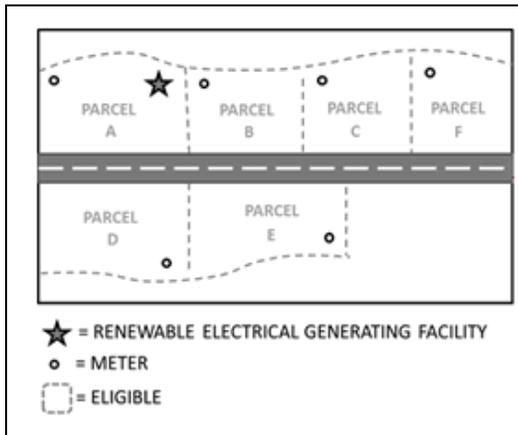
In accordance with Schedule NBTEM2, I, Customer-Generator represent and warrant under penalty of perjury that:

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 NBTEM2 generator account are located either:~~

~~(i) on the property where the renewable electrical generation facility is located, or~~

~~(ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned, leased or rented by the customer-generator.~~



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

3) ~~PG&E reserves the right to request a parcel map to confirm the property meets the requirements of 2) above; and~~

4) ~~Customer-Generator agrees to notify PG&E if there is any change of status that makes any of the participating meters ineligible for meter aggregation to ensure that only eligible meters are participating; PG&E will require an updated Appendix and Declaration form; and~~

5) ~~Upon request by PG&E, I agree to provide documentation that all aggregated meters meet the requirements of Rate Schedule NBTEM2 Special Condition 6 including but not limited to parcel maps and ownership records.~~

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

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

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

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

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

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
(MULTIPLE TARIFF ~~NBT-EM2MT~~)  
Appendix ~~GF~~**

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**APPENDIX ~~F~~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 ~~Billing Tariff~~Energy Metering provisions of PG&E's Schedule NEM-BIO, Experimental Biogas Net ~~Billing Tariff~~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 **NBT-EM2MT**)  
Appendix **GH****

**Appendix GH**

**SCHEDULE **NBTEM2** CUSTOMER-GENERATOR WARRANTY THAT IT  
MEETS THE REQUIREMENTS FOR AN ELIGIBLE CUSTOMER-  
GENERATOR AND IS AN ELIGIBLE RENEWABLE ELECTRICAL  
GENERATION FACILITY PURSUANT TO SECTION 2827.1 OF THE  
CALIFORNIA PUBLIC UTILITIES CODE**

(This Affidavit needs to be completed and submitted to PG&E by the Customer-Generator every time a new **NBTEM2** interconnection agreement for a Renewable Electrical Generation Facility is executed or whenever there is a change in ownership of the Generating Facility).

Check Type of Renewable Electrical Generation Facility:

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

**NBTEM2** Customer-Generator (Customer) declares that

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

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

**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
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Appendix ~~GH~~**

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

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

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

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

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



**GENERATING FACILITY  
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Appendix ~~GH~~**

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PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Eligible Customer-Generator of the Eligibility Status Change pursuant to Section 11 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Eligible Customer-Generator and/or Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Eligible Customer-Generator for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Eligible Customer-Generator's representations that Eligible Customer-Generator and/or Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net ~~Billing Tariff~~~~Energy Metering~~ provisions of PG&E's Schedule ~~NBTEM2~~ Net ~~Billing Tariff~~~~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 ~~NBT-EM2MT~~)  
Appendix H**

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**APPENDIX H**  
(If Applicable)

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

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

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

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

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

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

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


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

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

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



**GENERATING FACILITY  
INTERCONNECTION AGREEMENT  
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Appendix H**

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Calendar Days of the written request.

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



**GENERATING FACILITY  
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Appendix JI**

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

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

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

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

Specifically, I will be responsible for the following:

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

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

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

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

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

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



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering (NEM2) AND NetET Billing Tariff (NBT) 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 NEM2NBT.
  - ~~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 NEM2NBT program.

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

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

Standard NEM2NBT Agreement Type:     Single Account     ~~Multiple Aggregated Accounts~~

~~Note: Net Billing Tariff Energy Metering Aggregation 2 (NBTANEM2A) is a program that allows customers with multiple meters to use the renewable energy generated at one meter to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.~~

Customer Sector (check only one):

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

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

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

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

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

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

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

Company Name	Contact Person
Contact Phone Number	Email

**Please complete this agreement in its entirety**

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



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2) 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 79-1151B-02-03—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-NBT Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the accompanying Application Form 79-1151B-03-02.

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

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) Application Form 79-1151B-03-02, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

~~NEM2-NBT systems~~ The Generating Facility should be sized, such that ~~the~~ its total annual output in kWh of the generator is primarily used to offset the customer's own annual electrical requirements. ~~The NBT Customer is allowed to oversize their Generating Facility oversize for future load (i.e., electric vehicle, or other electrical appliances to support electrification) by executing the NBT Oversized Generating Facility Attestation in Part IV, section G.~~

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

**B. Generator System Sizing**

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

Generator System Type:  Solar  Wind  Both

**Estimated Annual Production:**

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

**Estimated Annual Energy Usage:**

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

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

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

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

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

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2) Interconnection

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

(4) Recent annual usage \_\_\_\_\_ (kWh) X 1.0 = \_\_\_\_\_ (kWh)

OR (If 12 months usage not available) (5) Building size \_\_\_\_\_ (sq ft) X 3.00<sup>E</sup> = \_\_\_\_\_ (kWh)

AND (6) I plan to increase my annual usage (kWh) by \_\_\_\_\_ (kWh)

(7) Total Energy Usage (4 or 5) + (6) = \_\_\_\_\_ (kWh)

**Net Generation:**

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

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

### Part III – Rate Selection

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

**Otherwise Applicable Rate Schedule (OAS) for NEM2-NBT Account:** Select one rate from the category applicable to you. ~~All NBT customers must take service on a Time of Use rate schedule. There may be limitations on the which TOU rates schedule available to residential customers enrolling on the NBT is allowed to be on. Please refer to the NBT tariff for more detailed information. Please make sure the rate you selected is applicable to the NBT tariff. NEM2 residential customers must be an applicable time-of-use rate<sup>F</sup> schedule.~~ If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

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

### Part IV – Interconnection Agreement Provisions

**A. Applicability**

This Agreement applies to Electric Schedule NEM2-NBT 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

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

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

**Please complete this agreement in its entirety**



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering (NBTEM2)~~ Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

Customer with a solar or wind-turbine electric generating system, or a hybrid system of both, that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

### D. Safe Operation of your Generating Facility

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

### E. AC Disconnect Switch

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

### F. Rate

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

### NEM2 Billing

### G. NBT Oversized Generating Facility Attestation

The Net Billing Tariff (NBT) Renewable Electrical Generation Facility (REGF) total annual output of the Generating Facility in kWhs should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).

A Net Billing Customer is allowed to oversize their REGF Generating Facility. To do so, the Net Billing Customer must execute the NBT Oversized Generating Facility Attestation below check the box below indicating that they have read and attest to the four bullet points listed:

I (Customer) attest as follows:

- My Renewable Electrical Generation Facility (REGF) Generating Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);
- The REGF's Generating Facility's estimated annual production in kWh is no larger than: (a) 150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). OR, My electrical usage has recently increased and the REGF's Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.
- I expect to increase my electrical usage to correspond with the size of my REGF Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

- I understand that PG&E reserves the right to further validate that my ~~REG~~ Generating Facility is sized in accordance with the Net Billing Tariff (NBT).

~~—The Customer's meter separately measures exports and imports.~~

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

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

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

### **G. Net Surplus Compensation (NSC)**

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

### **H. 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.

### **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. 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.

### **K. 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 NEM2NBT.

### **L. Meter Access**

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



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff Energy Metering (NBTEM2)

### Interconnection

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

#### M. Stale Agreements

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NBTEM2.

#### N. CEC Listed Rule 21 Certified/Non-Certified Interconnection Equipment

In order to promote the safety and reliability of ~~the e~~Customer's Generating Facility, the ~~applicant~~Customer certifies ~~that~~ as a part ~~of~~ its request for NBTEM2, that all major solar system components ~~are listed in /shall comply with Sections L.2-L.4 and Section L.7 of PG&E Electric Rule No. 21 (Rule 21). on the verified equipment list maintained by the California Energy Commission (<https://www.energy.ca.gov/programs-and-topics/programs/solar-equipment-lists>) and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.~~

#### O. Warranties or Service Agreements

Customer certifies as a part of its interconnection request for NEM2-NBT 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.

#### P. 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 (PG&E) 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/programs/solar-equipment-lists>.)

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

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

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

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

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

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



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2) 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.

**Q: Building Code-Required Solar Installations**

~~–Customers who are required to add solar in accordance with building code (Title 24) requirements are not eligible to receive the additional export credit (ACC Plus). Customer –acknowledges that information relating to building code-required solar installations collected in form 79-1151B-03 impacts may impact eligibility for the additional export credits (ACC Plus). (ACC Plus) and that misrepresentation could result in loss of eligibility to export compensation.~~

**Part V – Signature**

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

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

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

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

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

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 4)5) I understand that the NBT tariff allows for oversizing, and I have completed and reviewed Part IV, section G, the NBT Oversized Generating Facility Attestation, if my system-Generating Facility is oversized.
- 5)6) 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.



**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less**

\_\_\_\_\_  
(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 NBTEM2 requirements.



# APPLICATION

## Net Energy Metering (NEM/NEM2) and Net Billing Tariff (NBT) Interconnection

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

**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- For a non-exporting Generating Facility, RES-BCT facility, or NEM/NEM2/NBT Generating technologies other than 30 kW or less solar or wind, Customers must submit the online Form 79-1174-032 available at [www.pge.com/gen](http://www.pge.com/gen).

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

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

\_\_\_\_\_  
Electric Service Agreement ID\*                      Meter Number\*

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

- New NBTEM2 Generating Facility interconnection at an existing PG&E service.
- Modify existing PG&E approved Generating Facility interconnection (adding/removing/replacing equipment).
  - Must provide a Custom Single-Line Drawing (SLD) showing the original system and the modified system.

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

- PG&E Customer Owned

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

Property Assessed Clean Energy (PACE) Financed?       Yes       No

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

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

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

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

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

- Third Party Owned

If Third Party Owned, please answer the following:

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

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

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

**D. Rebate Information:**

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

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

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

**E. Title 24 Building Code-Required Solar Installations:**

**Please complete this agreement in its entirety**

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



**APPLICATION**  
**Net Energy Metering (NEM/NEM2) and Net Billing**  
**Tariff (NBT) Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less**

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Does this generating facility contain a solar PV system required by Title 24 or other building code? Misrepresentation could result in loss of Net Billing tariff eligibility.

Yes       No



# APPLICATION

## Net Energy Metering (NEM/NEM2) and Net Billing Tariff (NBT) Interconnection

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

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

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

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

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

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

Yes       No

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

If you checked “Yes” above:

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

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

**F.G. Preparer of this Application** (if not the PG&E Customer, the Preparer must be authorized to act on behalf of the Customer on the Interconnection Agreement and Customer Authorization, corresponding Form 79-1151A-03):

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

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

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

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

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

To avoid application processing delays, the manufacturer and model numbers provided should be the same as they appear on the Go Solar California website: <https://www.energy.ca.gov/programs-and-topics/programs/solar-equipment-lists>.

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

**Please complete this agreement in its entirety**



**APPLICATION**  
**Net Energy Metering (NEM/NEM2) and Net Billing**  
**Tariff (NBT) Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less**

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

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

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

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



# APPLICATION

## Net Energy Metering (NEM/NEM2) and Net Billing Tariff (NBT) Interconnection

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

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

**B.4 Photovoltaic Generator 1:**

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

**B.4 Photovoltaic Generator 2:**

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

**C. Wind Turbine Generating Facility Information**

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

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

**D. AC Disconnect Switch**

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

AC Disconnect Manufacturer	Model Number	Rating (amps)	Qty

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

Note: PG&E's Electric and Gas Service Requirements, also known as the "Greenbook" requires the AC Disconnect Switch to be located 10 feet or less from PG&E's electric revenue meter at the point of common coupling or interconnection and easily seen

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

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

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM/NEM2) and Net Billing Tariff (NBT) Interconnection

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

from the panel. If the AC Disconnect Switch is greater than 10 feet or there is more than one AC Disconnect, a variance request must be submitted as outlined in Part II, Section A.

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

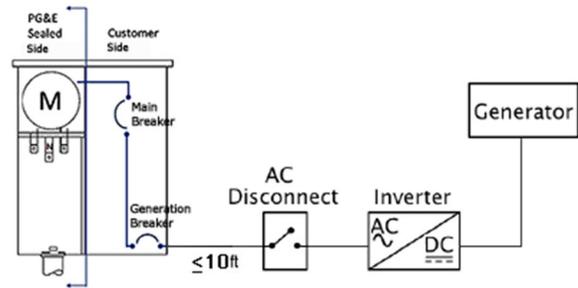
**E. Basic Single-Line Diagram (SLD) for Solar Projects** (check one):

I certify -the following:

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

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

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



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

**F. Customer Impacted by a Natural or HumanMan-Made Disaster**

Customers who were taking service on the NEM/NEM-2/NBT tariffs prior to the total or partial destruction of their system have the option to resume service on **the same NEM/NEM2/NBT/NBTEM tariffs** if a request for reapplication is received for NEM/NEM2 customers within two years, and for NBT customers within four years, from the date of destruction (i.e., if a customer before destruction was on the NEM2 tariff, the customer can only return to the same NEM2 tariff after the rebuild with proper documentation). 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 primarily to offset your own annual electrical requirements (your most recent 12 months usage, or estimated usage that is determined by building size<sup>C</sup> (if applicable)), unless you are applying for NBT tariff which allows oversizing for future load (i.e., electric vehicle, or other electrical appliances to support electrification) by executing the NBT Oversized Generating Facility Attestation within the applicable NBT Interconnection Agreement. to your most recent 12 months usage, or estimated usage that is determined by building size<sup>D</sup> (if applicable)
3. You are not operating the new (either completely new or partially new) system without written permission from PG&E
4. Your NEM/NEM2/NBT Transition-Legacy Period has not expired at the time of reapplication (~~see NEM-2 Tariff~~)

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

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

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM/NEM2) and Net Billing Tariff (NBT) Interconnection

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

Based on the above, select the appropriate box:

- I am a Customer who was impacted by a Natural or Human-Made Disaster as described in the NEM/NEM2/NBT Tariffs and the above statements are true. I will submit my application online at [yourprojects.pge.com](http://yourprojects.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 [yourprojects.pge.com](http://yourprojects.pge.com).

### Part III – Interconnection Guidelines and Document Information

Note: Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM/NEM2/NBT customers. If the proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland where the zip code is 94607 or 94612, please see [www.pge.com/standardnem](http://www.pge.com/standardnem), under the labeled section "Which Customers Are Not Eligible For Standard NEM/NEM2/NBT Interconnection" and the bullet "Secondary Network Areas In San Francisco and Oakland,".

#### A. Documents

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

##### Required Documents

- Net Energy Metering (NEM/NEM2) or Net Billing Tariff (NBT) Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less and Customer Authorization, corresponding Form 79-1151A-03.
- Copy of the final, signed, jurisdiction approval (building permit) for Customer's Generating Facility.

##### Additional Documents (if applicable)

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

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

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

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

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

#### C. AC Disconnect Switch Guidelines

PG&E recommends that customers installing an inverter-based generator consider also installing an AC Disconnect Switch to facilitate maintenance of the Customer's equipment (i.e. inverter, PV arrays, etc.). The AC Disconnect Switch

**Please complete this agreement in its entirety**



# APPLICATION

## Net Energy Metering (NEM/NEM2) and Net Billing Tariff (NBT) Interconnection

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

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

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

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

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

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

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

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

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

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

#### E. Governing Authority.

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

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

# RULE 21 GENERATOR INTERCONNECTION APPLICATION (Form 79-1174-032)

## 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 following<sup>1</sup> tariffs:

- (1) Non-Exporting Generating Facilities;
- (2) NEM/NEM2/NBT Solar (PV) (other than PV 30 KW or less)<sup>2</sup>; or RPS Generating Facilities
- (3) NEM/NEM2/NBT California Dept. of Corrections & Rehabilitation
- (4) NEMA/NEM2A—NEM/NEM2 Load Aggregation (under Schedule NEM/NEM2)
- (5) NEM-MT/NEM2MT/NBT-MT- 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) NEMV/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 and NetET Billing Tariff 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](http://www.energy.ca.gov) and [www.cpuc.ca.gov](http://www.cpuc.ca.gov).

<sup>1</sup> Also when included with Energy Storage (e.g., batteries), or when operating under the provisions of PU Code 218, where permitted.

<sup>2</sup> For Net Billing Tariff~~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-~~A02-03 A~~ and 79-1151-B-03). These forms are available on PG&E's website at <http://www.pge.com/gen>.

**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 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 makes 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.

4. **Variance Request** - A variance request will be required for anything outside Electric Rule 21<sup>3</sup>, PG&E's Greenbook<sup>4</sup>, or PG&E's Distribution or Transmission Interconnection Handbooks<sup>5,6</sup> 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.
8. **NBT Oversized Generating Facility Attestation**

The total annual output of the Generating Facility should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).

Customer is allowed to oversize their Generating Facility. To do so, Customer must check the box below indicating that they have read and attest to the four bullet points listed:

I (Customer) attest as follows:

- My Generating Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);
- The Generating Facility's estimated annual production in kWh is no larger than: (a) 150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). OR, My electrical usage has recently increased and the Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.
- I expect to increase my electrical usage to correspond with the size of my Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).
- I understand that PG&E reserves the right to further validate that my Generating Facility is sized in accordance with the NBT.

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<sup>3</sup> Rule 21 can be found at: [https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC\\_RULES\\_21.pdf](https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_RULES_21.pdf)

<sup>4</sup> PG&E's Greenbook can be found at: <http://www.pge.com/greenbook/>

<sup>5</sup> Distribution Interconnection Handbook (DIH) can be found at: [https://www.pge.com/en\\_US/large-business/services/alternatives-to-pge/distribution-handbook.page](https://www.pge.com/en_US/large-business/services/alternatives-to-pge/distribution-handbook.page)

<sup>6</sup> 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](https://www.pge.com/en_US/large-business/services/alternatives-to-pge/third-party-electric-options/electric-transmission-services/transmission-interconnection-handbooks.page)

**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](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 ~~Grideneration~~ Interconnection Department at [Rrule21Gen@pge.com](mailto:Rrule21Gen@pge.com) or an electronic application may be submitted on <https://yourprojects-pge.com>.

For each new generating facility you are applying to interconnect, please complete and submit the applicable appendices.

**Part IV Attachments / On-Line Form - Overview**

Table 1 - Summary of the attachment to this form.

		Attachment	Project Type
	1	A	Customer Project Information
EXPORT	2	B	Non Export
	3	C	Export
TECHNOLOGY	4	D	Solar (PV) Only
	5	E	Wind Only
	6	F	Machine-Based Only
	7	G	Fuel Cell
	8	H	Energy Storage Only
TARIFF PROGRAM	9	I	RES-BCT
	10	J	<u>NEMA/NEM2A</u>
	11	K	NEMFC
	12	L	<u>NEMV/NEM2V</u>
	13	M	NEMVMASH/ <u>NEM2VMSH</u>
	14	N	NEMVMASH/ <u>NEM2VMSH</u> Development

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/NEM2 EXP/NBT-EXP	RES-BCT	NEMA/NEM2A	NEMFC	NEMV/NEM2V	NEMVMASH/ NEM2VMSH
	Main (79-1174-032)	Customer info							
	A	Customer & Project info							
Rule 21 - must complete one of these Attachments	B	Non-export							
	C	Export							
Each generating facility must complete one corresponding to technology	D	Solar							
	E	Wind							
	F	Machine		(1)	(1)	(1)		(1)	
	G	Fuel Cell		(1)	(1)	(1)	(2)	(1)	
	H	Storage		(3)	(3)	(3)	(3)		
Complete Attachment that corresponds to tariff program for a generating facility	I	RES-BCT							
	J	NEMA/NEM2A							
	K	Fuel Cell Aggregation							
	L	NEMV/NEM2V							
	M	NEMVMASH/ NEM2VMSH Single building							
N	NEMVMASH/ NEM2VMSH 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/NEM2/NBT 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 NEMMT/NEM2MT/NBT-MT).



# INTERCONNECTION APPLICATION (Form 79-1174-032) ATTACHMENT A CUSTOMER AND PROJECT INFORMATION

## Part I - Selecting the Study Process

Please check one:

- Fast Track Process<sup>1</sup>.
- Detailed Study
  - 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

<i>Project Name:</i>

**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
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**Please check all that apply:**

- A New Generating Facility interconnection (at an existing service).
- Upgrade existing 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 Generating Facility and New Load 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](mailto:Rule21Gen@pge.com) or [an electronic application may be submitted onat https://yourprojects-pge.com](https://yourprojects-pge.com).-
- A New Generating Facility with no existing electric service and no load.
- 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.

<sup>1</sup> See Electric Rule 21 for FAST TRACK requirements.



# INTERCONNECTION APPLICATION (Form 79-1174-032) ATTACHMENT A 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.

**Does this generating facility contain a solar PV system required by Title 24 or other building code?**

Yes       No

**For new generating facilities with no existing electric service (greenfield) Projects:**

[Visit the ICA Map here](#)

Have you checked the ICA map for capacities in your project       Yes       No

- *If you checked "No":*  
Check here to confirm you do not want to look at the values but still proceed with the application:

- *If you checked "Yes":*

Field	Value or Capacity
CSV Line Section Value	
Generation Hosting Capacity (OP Flex)	
Generic PV Hosting Capacity (OP Flex)	
Generation Hosting Capacity (SG)	
Generic PV Hosting Capacity (SG)	
ICA Protection Value	

**B. Customer Account Contact Information -**

Mailing Address			
City	State	Zip - 5-digits	
( ) - _____ Business Phone	( ) - _____ Home Phone	Fax	Email



# INTERCONNECTION APPLICATION (Form 79-1174-032) ATTACHMENT A CUSTOMER AND PROJECT INFORMATION

**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	
<input type="checkbox"/> Yes <input type="checkbox"/> 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			
City		State	Zip - 5-digits
( ) -	( ) -		
Business Phone	Fax	Email	

What is the <b>maximum 3-phase fault current</b> 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 <b>short circuit interrupting rating</b> of the host Customer facility's service panel:	_____ Amps  _____ 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 Electric System, please describe the assumptions used in calculating



# INTERCONNECTION APPLICATION (Form 79-1174-032) ATTACHMENT A CUSTOMER AND PROJECT INFORMATION

the maximum fault current contribution value.

For Customer applying for interconnection under Schedules

- i) NEM/NEM2/NBT – Net Energy Metering ~~and Net Billing Tariff~~ Service (including NEMA/NEM2A – Load Aggregation, Or NEMMT/NEM2MT/NBT-MT- Multiple Tariff- with a NEM/NEM2/NBT eligible generator), or
  - ii) NEMV/NEM2V – Virtual Net Energy Metering Service, or
  - iii) NEMVMASH/NEM2VMASH- 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/Rule 21 Certified/Non-Certified Interconnection Equipment**

In order to promote the safety and reliability of the customer's Generating Facility, the applicant certifies that as a part its request for NEM/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. Net Billing Tariff customers shall comply with Electric Rule No. 21 (Rule 21) Sections L.2-L.4 and Section L.7 for interconnecting to electrical grid. For Net Billing Tariff the utilities shall use the aforementioned sections of Rule 21 to establish the certified and non-certified connection criteria for the Net Billing Tariff eligibility in place of the CEC's verified equipment list. ~~Net Billing Tariff customers shall comply with Electric Rule No. 21 (Rule 21) Sections L.2-L.4 and Section L.7 for interconnecting to electrical grid.~~

### **Warranties or Service Agreements**

Applicant certifies as a part of its interconnection request for NEM/NEM2/NBT 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 79-1174-0302)

## ATTACHMENT B

### NON-EXPORT

#### Operating Mode

Please select one option below:

- Parallel Operation (no export):** 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.

- 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.

- Momentary Parallel Operation (Make Before Break):** 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 (Break Before Make):** 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.

Note: There is no application fee for Generating Facilities employing Isolated Operation mode, however, an application is needed to satisfy PG&E’s notice requirements for operating an isolated Generating Facility as per California Health and Safety Code Section 119085 (b)

# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT B

### NON-EXPORT

#### Protection Options

##### Parallel Only:

Please select one Rule 21 Screen I option below:

- Reverse Power (Option 1): A **reverse-power protection device** will be installed to measure any export of power and trip the Generating Facility or open an intertie breaker to isolate the Generating Facility if limits are exceeded.
- Under Power (Option 2): An **under-power protection device** will be installed to measure the inflow of power and trip or reduce the output of the Generating Facility if limits are not maintained.
- Non-Islanding (Option 3): The Generating Facility Interconnection Facility equipment has been **certified as non-islanding and the incidental export of power will be limited by the design of the interconnection**. If this option is to be used, the nominal ampere rating of the service entrance equipment (service panel rating) that is used by the host Customer facility is:  
\_\_\_\_\_.
- Gross Nameplate 50% or Less (Option 4): 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.
- AC/DC Converter (Option 7): An AC/DC Converter is employed to prevent export by only allowing one way power flow.
- Certified Power Control System (PCS) Non-Export (Option 8): A PCS is employed to prevent export. For this option, the open loop response time of the PCS must be less than 2 seconds.

Please indicate:

- 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 79-1174-0302)

## ATTACHMENT B

### NON-EXPORT

#### Inadvertent Export:

The Generating Facility **completely offsets 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.

Please select one Rule 21 Screen I option below:

- Reverse Power (Option 5): Two **reverse-power protection devices** 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.
- Under Power (Option 5): A **reverse-power protection devices** 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; AND 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.
- Non-islanding Inverters (Option 6): Designed to detect and disconnect from a stable Unintended Island with matched load and generation.
- Certified Power Control System (PCS) Inadvertent (Option 10): A PCS is employed to allow inadvertent export. For this option, the open loop response time of the PCS must be greater than 2 seconds and no more than 10 seconds.
- Certified Power Control System (PCS) Inadvertent/Limited Export (Option 11): A PCS is employed to allow inadvertent limited export. For this option, the open loop response time of the PCS must be greater than 2 seconds and no more than 10 seconds.

Please indicate:

- 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.

#### Uncompensated Export:

Please provide Maximum Expected Facility Net Export (kW): \_\_\_\_\_

-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.



# INTERCONNECTION APPLICATION (Form 79-1174-032)

## ATTACHMENT C

### 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)  
NEM2VMASH 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 Nameplate<sup>1</sup> 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 Net Energy Metering and Net Billing Tariff 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?

<sup>1</sup> 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 79-1174-032) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

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

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

Instructions				
Inverter	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>Please indicate the number of each <b>"type"</b> and <b>quantity</b> of Generator being installed</p> <p>Be sure all Generators classified as one "type" are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p>				
<p>A - Generator/Inverter Manufacturer</p> <p>Enter the brand name of the Generator.</p>				
<p>B - Generator/Inverter Model</p> <p>Enter the model name or number assigned by the manufacturer of the Generator.</p>				
<p>C - Generator/Inverter Software Version</p> <p>If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.</p>				
<p>D - Is the Generator/Inverter certified?</p> <p>Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&amp;E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory.</p> <p><u>See PG&amp;E's Rule 21, Section L for additional information regarding Generator certification.</u></p> <p><u>For Net Billing Customers all major solar system components shall comply with Electric Rule 21 Section L.2-L.4 and Section L.7</u></p>	<p>___ Yes</p> <p>___ No</p>			



# INTERCONNECTION APPLICATION (Form 79-1174-032) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><u>E – Anti-Islanding Detection Method</u></p> <p><u>Please select an Anti-Islanding Detection Method</u></p> <p><u>Group 1 – Frequency Shift with continuous positive frequency feedback</u></p> <p><u>Group 2A – Frequency Shift with discontinuous or stepped positive frequency feedback</u></p> <p><u>Group 2B – Frequency Shift similar to Group 2A except with a dead zone around 60Hz</u></p> <p><u>Group 2C – Frequency shift with unidirectional frequency feedback</u></p> <p><u>Group 3 – Monitors change of impedance</u></p> <p><u>Group 4 – Monitors shift at a harmonic frequency (multiple of the fundamental)</u></p> <p><u>Group 5 – Passive methods like rate of change of frequency, vector shift</u></p> <p><u>Group 6 – Produces negative sequence current and monitor voltage</u></p>	<p><u>Group 1</u></p> <p><u>Group 2A</u></p> <p><u>Group 2B</u></p> <p><u>Group 2C</u></p> <p><u>Group 3</u></p> <p><u>Group 4</u></p> <p><u>Group 5</u></p> <p><u>Group 6</u></p>	<p><u>Group 1</u></p> <p><u>Group 2A</u></p> <p><u>Group 2B</u></p> <p><u>Group 2C</u></p> <p><u>Group 3</u></p> <p><u>Group 4</u></p> <p><u>Group 5</u></p> <p><u>Group 6</u></p>	<p><u>Group 1</u></p> <p><u>Group 2A</u></p> <p><u>Group 2B</u></p> <p><u>Group 2C</u></p> <p><u>Group 3</u></p> <p><u>Group 4</u></p> <p><u>Group 5</u></p> <p><u>Group 6</u></p>	<p><u>Group 1</u></p> <p><u>Group 2A</u></p> <p><u>Group 2B</u></p> <p><u>Group 2C</u></p> <p><u>Group 3</u></p> <p><u>Group 4</u></p> <p><u>Group 5</u></p> <p><u>Group 6</u></p>
<p><u>E-F – Volt-Var Smart Inverter Setting</u></p> <p><i>If proposing non-default inverter settings, please provide:</i></p> <p>Power Factor Value</p> <p>Inverter Power Factor</p> <p>Volt-Var Voltage Values</p> <p>Volt-Var Reactive Values</p> <p>Volt-Watt Real Power Values</p>	<p>V1 _____</p> <p>Q1 _____</p> <p>V1 _____</p> <p>Q1 _____</p> <p>P1 _____</p>	<p>V2 _____</p> <p>Q2 _____</p> <p>V2 _____</p> <p>Q2 _____</p> <p>P2 _____</p>	<p>V3 _____</p> <p>Q3 _____</p> <p>V3 _____</p> <p>Q3 _____</p> <p>P3 _____</p>	<p>V4 _____</p> <p>Q4 _____</p> <p>V4 _____</p> <p>Q4 _____</p> <p>P4 _____</p>



# INTERCONNECTION APPLICATION (Form 79-1174-032) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

<u>Generator Information</u>	<u>Existing Generator type 1</u>	<u>Existing Generator type 2</u>	<u>New Generator type 1</u>	<u>New Generator type 2</u>
<u>GF</u> - Modules.	_____ Manufacturer  _____ Model #.  _____ Quantity	_____ Manufacturer  _____ Model #.  _____ Quantity	_____ Manufacturer  _____ Model #.  _____ Quantity	_____ Manufacturer  _____ Model #.  _____ Quantity
<u>HG</u> - 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.				
<u>IH</u> - 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 79-1174-032) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>JJ</b> - Power Factor Rating</p> <p>This value should be the nominal power factor rating designated by the manufacturer for the Generator.</p> <p>See PG&amp;E's Rule 21, Section H.2.i. for additional information.</p>				
<p><b>KJ</b> - PF Adjustment Range</p> <p>Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values.</p> <p>See PG&amp;E's Rule 21, Section H.2.i.</p>				
<p><b>LK</b> - Wiring Configuration</p> <p>Please indicate whether the Generator is a single-phase or three-phase device. See PG&amp;E's Rule 21, Section H.3.</p>				
<p><b>ML</b> - AC Disconnect</p> <p>For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.</p> <p>See PG&amp;E's Rule 21, Section H.1.d</p> <p>Located within 10 feet of the PG&amp;E meter?</p>	<p>____ Manufacturer</p> <p>____ Model #</p> <p>____ Rating (amps)</p> <p>____ Yes ____ No</p>	<p>____ Manufacturer</p> <p>____ Model #</p> <p>____ Rating (amps)</p> <p>____ Yes ____ No</p>	<p>____ Manufacturer</p> <p>____ Model #</p> <p>____ Rating (amps)</p> <p>____ Yes ____ No</p>	<p>____ Manufacturer</p> <p>____ Model #</p> <p>____ Rating (amps)</p> <p>____ Yes ____ No</p>
<p><b>NM</b> - Lineside Tap</p> <p>Where is the point of interconnection in relation to the main breaker?</p> <p>PG&amp;E has special requirements for a lineside tap.</p> <p>Contact PG&amp;E at: <a href="mailto:Rule21Gen@PGE.com">Rule21Gen@PGE.com</a> for more information.</p>	<p>____ Customer side</p> <p>____ PG&amp;E side</p>			
<p><b>ON</b> - Warranty or Service Agreement</p> <p>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.</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>

### SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>PQ</b> - Solar Ready Electric Panel</p> <p>Is the Generating Facility connecting to a circuit breaker on the supply side of the main breaker?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<p><b>QP</b> - Green Meter Adapter (GMA)</p> <p>Will a GMA be installed?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<p><b>RQ</b> - Distribution Interconnect Handbook (DIH) and Greenbook Requirements</p> <p>Does this interconnection meet the DIH and Greenbook Requirements</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<p><b>SR</b> - Gas Clearance Requirements</p> <p>Certify that this interconnection meets Greenbook Gas Clearance Requirements?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<p><b>IS</b> - Basic Single Line Diagram (SLD)</p> <p>If the interconnection is eligible to use a Basic SLD, please include the requested information.</p>	<hr style="width: 100%;"/> Panel Voltage (Volts)			
	<hr style="width: 100%;"/> Main Breaker (Amps)			
	<hr style="width: 100%;"/> PV Breaker Size (Amps)			
<p><b>UT</b> - Back-up Generator Operation</p> <p>Will the generator be operated as a back-up?</p> <p>If yes, please indicate the control device that will be used.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch  <input type="checkbox"/> Contactor  <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch  <input type="checkbox"/> Contactor  <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch  <input type="checkbox"/> Contactor  <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch  <input type="checkbox"/> Contactor  <input type="checkbox"/> Breaker
<p><b>VU</b> - Limited Export</p> <p>Will the generator export be limited?</p> <p>If yes, please indicate how export will be</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System



# INTERCONNECTION APPLICATION (Form 79-1174-032) ATTACHMENT D

## SOLAR (PV) TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
limited.	(PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter	(PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter	(PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter	(PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter
<p><del>WV</del> – Telemetry</p> <p>Will the Generating Facility Gross Nameplate Rating exceed 1 MW?</p> <p>If yes, please select a Telemetry Option.</p> <p>If one of the Customer-owned Telemetry options is selected, please identify the preferred Site Metering Arrangement.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Customer-owned Telemetry - Gateway <input type="checkbox"/> Customer-owned Telemetry - Aggregator <input type="checkbox"/> Mini RTU</p> <p><input type="checkbox"/> Customer-side net load metering <input type="checkbox"/> Replace PG&amp;E meter with a Mark V meter and terminal block <input type="checkbox"/> Add terminal block to existing PG&amp;E Mark V meter <input type="checkbox"/> Replace meter socket with dual-socket meter cabinet for installation of customer-owned meter <input type="checkbox"/> Install customer-owned meter in existing dual socket meter cabinet.</p>			

**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/NEM2) or NetET Billing Tariff (NBT) arrangement.-*

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

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



INTERCONNECTION APPLICATION (Form 79-1174-032)
ATTACHMENT D

SOLAR (PV) TECHNOLOGY

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

Yes No

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

- Customer
3rd Party (list name)

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

Yes No

If yes, please indicate how many electric vehicles

D. System Ownership and Financing

i. System Owner (check one):

PG&E Customer Owned

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

Indicate the System Cost paid by Customer: \$

Property Assessed Clean Energy (PACE) Financed?

Yes No

If Yes, PACE financed by which entity?

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

Financial Institution/Lessor Name

Financial Institution/Lessor Address City State Zip

Third Party Owned

If Third Party Owned, please answer the following:

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

Name of Developer at the time of sale:

Contract Type: PPA Lease Pre-Paid Lease Other

ii. Rebate Information:

Did you participate in a California rebate program? Yes No

Please indicate the rebate program that you participated in:

Rebate Amount: \$

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



INTERCONNECTION APPLICATION (Form 79-1174-032)  
ATTACHMENT D

**SOLAR (PV) TECHNOLOGY**

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

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

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

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

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

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

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

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

Yes     No

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

If you checked "Yes" above:

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

Home Improvement Salesperson (HIS) registration number:

\_\_\_\_\_



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT E

### 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 <b>“type” and quantity</b> 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.: _____
<b>A - Generator/Inverter Manufacturer</b> Enter the brand name of the Generator.				
<b>B - Generator/Inverter Model</b> Enter the model name or number assigned by the manufacturer of the Generator.				
<b>C - Generator/Inverter Software Version</b> 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.				
<b>D - Is the Inverter certified?</b>  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



**ATTACHMENT E**

**WIND TURBINE TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>E – Anti-Islanding Detection Method</p> <p>Please select an Anti-Islanding Detection Method</p> <p>Group 1 – Frequency Shift with continuous positive frequency feedback</p> <p>Group 2A – Frequency Shift with discontinuous or stepped positive frequency feedback</p> <p>Group 2B – Frequency Shift similar to Group 2A except with a dead zone around 60Hz</p> <p>Group 2C – Frequency shift with unidirectional frequency feedback</p> <p>Group 3 – Monitors change of impedance</p> <p>Group 4 – Monitors shift at a harmonic frequency (multiple of the fundamental)</p> <p>Group 5 – Passive methods like rate of change of frequency, vector shift</p> <p>Group 6 – Produces negative sequence current and monitor voltage</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>
<p>F –Volt-Var Smart Inverter Setting</p> <p><i>If proposing non-default inverter settings, please provide:</i></p> <p>Power Factor Value</p> <p>Inverter Power Factor</p> <p>Volt-Var Voltage Values</p> <p>Volt-Var Reactive Values</p> <p>Volt-Watt Real Power Values</p>	<p>V1 _____</p> <p>Q1 _____</p> <p>V1 _____</p> <p>Q1 _____</p> <p>P1 _____</p>	<p>V2 _____</p> <p>Q2 _____</p> <p>V2 _____</p> <p>Q2 _____</p> <p>P2 _____</p>	<p>V3 _____</p> <p>Q3 _____</p> <p>V3 _____</p> <p>Q3 _____</p> <p>P3 _____</p>	<p>V4 _____</p> <p>Q4 _____</p> <p>V4 _____</p> <p>Q4 _____</p> <p>P4 _____</p>



**ATTACHMENT E**

**WIND TURBINE TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>G - Generator Design</b></p> <p>Please indicate the design of each Generator.</p> <p>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.</p>	<p>___ Synch</p> <p>___ Induct.</p> <p>___ Inverter</p>			
<p><b>H - Gross Nameplate Rating (kVA)</b></p> <p>This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate.</p> <p>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.</p>				
<p><b>I - Operating Voltage</b></p> <p>This value should be the voltage rating designated by the manufacturer and used in this Generating Facility.</p> <p>Please indicate phase-to-phase voltages for 3-phase installations.</p> <p>See PG&amp;E's Rule 21, Section H.2.b. and Table H.1., for additional information.</p>				
<p><b>J - Power Factor Rating</b></p> <p>This value should be the nominal power factor rating designated by the manufacturer for the Generator.</p> <p>See PG&amp;E's Rule 21, Section H.2.i. for additional information.</p>				
<p><b>K - PF Adjustment Range</b></p> <p>Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values.</p> <p>See PG&amp;E's Rule 21, Section H.2.i.</p>				
<p><b>L - Wiring Configuration</b></p> <p>Please indicate whether the Generator is a single-phase or three-phase device. See PG&amp;E's Rule 21, Section H.3.</p>				



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT E

### WIND TURBINE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>M - (MP) 3-Phase Winding Configuration</p> <p>(Choose One)</p> <p>For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>
<p>N - (MP) Neutral Grounding System Used</p> <p>(Choose One)</p> <p>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.</p> <p>If the grounding method used at this facility is not listed, please attach additional descriptive information.</p>	<p><input type="checkbox"/> Ungrounded</p> <p><input type="checkbox"/> Solidly Grounded</p> <p><input type="checkbox"/> Ground Resistor</p> <p><input type="checkbox"/> Ohms</p>	<p><input type="checkbox"/> Ungrounded</p> <p><input type="checkbox"/> Solidly Grounded</p> <p><input type="checkbox"/> Ground Resistor</p> <p><input type="checkbox"/> Ohms</p>	<p><input type="checkbox"/> Ungrounded</p> <p><input type="checkbox"/> Solidly Grounded</p> <p><input type="checkbox"/> Ground Resistor</p> <p><input type="checkbox"/> Ohms</p>	<p><input type="checkbox"/> Ungrounded</p> <p><input type="checkbox"/> Solidly Grounded</p> <p><input type="checkbox"/> Ground Resistor</p> <p><input type="checkbox"/> Ohms</p>
<p>O - Induction Generators Only:</p> <p style="padding-left: 40px;">Locked Rotor Current: _____ (Amps)</p> <p style="padding-left: 40px;"><b>Stator Resistance:</b> _____ (%)</p> <p style="padding-left: 40px;">Stator Leakage Reactance: _____ (%)</p> <p style="padding-left: 40px;">Rotor Resistance: _____ (%)</p> <p style="padding-left: 40px;">Rotor Leakage Reactance: _____ (%)</p> <p>If the Generator is of an induction design, please provide the "locked rotor current" value supplied by the manufacturer.</p> <p>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.</p> <p>If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&amp;E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System.</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>
<p>P - Short Circuit Current Produced by Generator</p>	<p>_____ (Amps)</p>	<p>_____ (Amps)</p>	<p>_____ (Amps)</p>	<p>_____ (Amps)</p>
<p>Q - AC Disconnect</p> <p>For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.</p> <p>See PG&amp;E's Rule 21, Section H.1.d</p> <p>Located within 10 feet of the PG&amp;E meter?</p>	<p>Manufacturer _____</p> <p>Model # _____</p> <p>Rating (amps) _____</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Manufacturer _____</p> <p>Model # _____</p> <p>Rating (amps) _____</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Manufacturer _____</p> <p>Model # _____</p> <p>Rating (amps) _____</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Manufacturer _____</p> <p>Model # _____</p> <p>Rating (amps) _____</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT E

### WIND TURBINE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>R - Lineside Tap</b></p> <p>Where is the point of interconnection in relation to the main breaker?</p> <p>PG&amp;E has special requirements for a lineside tap.</p> <p>Contact PG&amp;E at: <a href="mailto:Rule21Gen@PGE.com">Rule21Gen@PGE.com</a> for more information.</p>	<p>____ Customer side</p> <p>____ PG&amp;E side</p>			
<p><b>S – Warranty or Service Agreement</b></p> <p>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.</p>	<p>____ Yes</p> <p>____ No</p>			
<p><b>T - Distribution Interconnect Handbook (DIH) and Greenbook Requirements</b></p> <p>Does this interconnection meet the DIH and Greenbook Requirements</p>	<p>____ Yes</p> <p>____ No</p>			
<p><b>U - Gas Clearance Requirements</b></p> <p>Certify that this interconnection meets Greenbook Gas Clearance Requirements?</p>	<p>____ Yes</p> <p>____ No</p>			
<p><b>V - Back-up Generator Operation</b></p> <p>Will the generator be operated as a back-up?</p> <p>If yes, please indicate control device.</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor</p> <p><input type="checkbox"/> Breaker</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor</p> <p><input type="checkbox"/> Breaker</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor</p> <p><input type="checkbox"/> Breaker</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor</p> <p><input type="checkbox"/> Breaker</p>
<p><b>W - Limited Export</b></p> <p>Will the generator export be limited?</p> <p>If yes, please indicate how export will be limited.</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Power Control System (PCS – Option 9)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Power Control System (PCS – Option 9)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Power Control System (PCS - Option 9)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p>	<p>____ Yes</p> <p>____ No</p> <p><input type="checkbox"/> Power Control System (PCS – Option 9)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p>





# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT F

### 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
<p>Please indicate the number of each <b>“type” and quantity</b> of Generator being installed.</p> <p>Be sure all Generators classified as one “type” are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p>				
<p>A - Generator/Inverter Manufacturer Enter the brand name of the Generator.</p>				
<p>B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.</p>				
<p>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.</p>				
<p>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&amp;E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory.  See PG&amp;E’s Rule 21, Section L for additional information regarding Generator certification.</p>	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No



**ATTACHMENT F**

**MACHINE-BASED TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>E – Anti-Islanding Detection Method</b></p> <p>Please select an Anti-Islanding Detection Method</p> <p>Group 1 – Frequency Shift with continuous positive frequency feedback</p> <p>Group 2A – Frequency Shift with discontinuous or stepped positive frequency feedback</p> <p>Group 2B – Frequency Shift similar to Group 2A except with a dead zone around 60Hz</p> <p>Group 2C – Frequency shift with unidirectional frequency feedback</p> <p>Group 3 – Monitors change of impedance</p> <p>Group 4 – Monitors shift at a harmonic frequency (multiple of the fundamental)</p> <p>Group 5 – Passive methods like rate of change of frequency, vector shift</p> <p>Group 6 – Produces negative sequence current and monitor voltage</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>
<p><b>F –Volt-Var Smart Inverter Setting</b></p> <p><i>If proposing non-default inverter settings, please provide:</i></p> <p>Power Factor Value</p> <p>Inverter Power Factor</p> <p>Volt-Var Voltage Values</p> <p>Volt-Var Reactive Values</p> <p>Volt-Watt Real Power Values</p>	<p>V1 _____</p> <p>Q1 _____</p> <p>V1 _____</p> <p>Q1 _____</p> <p>P1 _____</p>	<p>V2 _____</p> <p>Q2 _____</p> <p>V2 _____</p> <p>Q2 _____</p> <p>P2 _____</p>	<p>V3 _____</p> <p>Q3 _____</p> <p>V3 _____</p> <p>Q3 _____</p> <p>P3 _____</p>	<p>V4 _____</p> <p>Q4 _____</p> <p>V4 _____</p> <p>Q4 _____</p> <p>P4 _____</p>



**ATTACHMENT F**

**MACHINE-BASED TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>G - Gross Nameplate Rating (kVA)</b></p> <p>This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate.</p> <p>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.</p>				
<p><b>H - Operating Voltage</b></p> <p>This value should be the voltage rating designated by the manufacturer and used in this Generating Facility.</p> <p>Please indicate phase-to-phase voltages for 3-phase installations.</p> <p>See PG&amp;E's Rule 21, Section H.2.b. and Table H.1., for additional information.</p>				
<p><b>I - Power Factor Rating</b></p> <p>This value should be the nominal power factor rating designated by the manufacturer for the Generator.</p> <p>See PG&amp;E's Rule 21, Section H.2.i. for additional information.</p>				
<p><b>J - PF Adjustment Range</b></p> <p>Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values.</p> <p>See PG&amp;E's Rule 21, Section H.2.i.</p>				
<p><b>K - Wiring Configuration</b></p> <p>Please indicate whether the Generator is a single-phase or three-phase device. See PG&amp;E's Rule 21, Section H.3.</p>				
<p><b>L - (MP) 3-Phase Winding Configuration</b> (Choose One)</p> <p>For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.</p>	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye



**ATTACHMENT F**

**MACHINE-BASED TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>M - (MP) Neutral Grounding System Used (Choose One)</p> <p>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.</p> <p>If the grounding method used at this facility is not listed, please attach additional descriptive information.</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor ___ Ohms</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor ___ Ohms</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor ___ Ohms</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor ___ Ohms</p>
<p>N – <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&amp;E's Electric System. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&amp;E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System.</p>				
<p>Synchronous Reactance: _____ (Xd %)</p> <p>Transient Reactance: _____ (Xd %)</p> <p>Subtransient Reactance: _____ (Xd %)</p>	<p>_____ (Xd %)</p> <p>_____ (Xd %)</p> <p>_____ (Xd %)</p>	<p>_____ (Xd %)</p> <p>_____ (Xd %)</p> <p>_____ (Xd %)</p>	<p>_____ (Xd %)</p> <p>_____ (Xd %)</p> <p>_____ (Xd %)</p>	<p>_____ (Xd %)</p> <p>_____ (Xd %)</p> <p>_____ (Xd %)</p>
<p>O - <i>Induction Generators Only</i>:</p> <p>Locked Rotor Current: _____ (Amps)</p> <p><b>Stator Resistance:</b> _____ (%)</p> <p>Stator Leakage Reactance: _____ (%)</p> <p>Rotor Resistance: _____ (%)</p> <p>Rotor Leakage Reactance: _____ (%)</p> <p>If the Generator is of an induction design, please provide the "locked rotor current" value supplied by the manufacturer.</p> <p>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.</p> <p>If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&amp;E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System.</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>	<p>_____ (Amps)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p> <p>_____ (%)</p>



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT F

### MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>P - Short Circuit Current Produced by Generator:</p>	_____	_____	_____	_____
	(Amps)	(Amps)	(Amps)	(Amps)
<p>Q – For Generators that are Started as a “Motor” Only: This information is needed only for Generators that are started by “motoring” the generator.</p> <p>See PG&amp;E’s Rule 21, Sections L.3.d. and L.7.b. for significance and additional information.</p> <p>If this question was answered in Part IV, question C of this Application, it need not be answered here.</p> <p>1. In-Rush Current:</p> <p>2. Host Customer’s Service Entrance Panel (Main Panel) Continuous Current Rating:</p>	_____	_____	_____	_____
	(Amps)	(Amps)	(Amps)	(Amps)
	_____	_____	_____	_____
	(Amps)	(Amps)	(Amps)	(Amps)
<p>R – Prime Mover Type</p> <p>Please indicate the type and fuel used as the prime mover or source of energy for the Generator.</p> <p>1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel</p>	1   2   3	1   2   3	1   2   3	1   2   3
<p>S - AC Disconnect</p> <p>For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.</p> <p>See PG&amp;E’s Rule 21, Section H.1.d</p> <p>Located within 10 feet of the PG&amp;E meter?</p>	_____	_____	_____	_____
	Manufacturer	Manufacturer	Manufacturer	Manufacturer
	_____	_____	_____	_____
	Model #	Model #	Model #	Model #
	_____	_____	_____	_____
	Rating (amps)	Rating (amps)	Rating (amps)	Rating (amps)
	_____	_____	_____	_____
	Yes	Yes	Yes	Yes
	No	No	No	No
<p>T - Lineside Tap</p> <p>Where is the point of interconnection in relation to the main breaker?</p> <p>PG&amp;E has special requirements for a lineside tap.</p> <p>Contact PG&amp;E at: <a href="mailto:Rule21Gen@PGE.com">Rule21Gen@PGE.com</a> for more information.</p>	_____	_____	_____	_____
	Customer side	Customer side	Customer side	Customer side
	_____	_____	_____	_____
	PG&E side	PG&E side	PG&E side	PG&E side



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT F

### MACHINE-BASED TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<b>U – Warranty or Service Agreement</b> Applicant has verified that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed “agreement” ensuring proper maintenance and continued system performance.	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>V - Cogeneration</b> Please indicate whether this Generating Facility meets the definition of cogeneration in PUC 216.6 (5% useful thermal and 42.5% efficient):	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>W - Distribution Interconnect Handbook (DIH) and Greenbook Requirements</b> Does this interconnection meet the DIH and Greenbook Requirements	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>X - Gas Clearance Requirements</b> Certify that this interconnection meets Greenbook Gas Clearance Requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Y - Back-up Generator Operation</b> Will the generator be operated as a back-up?  If yes, please indicate control device.	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker
<b>Z - Limited Export</b> Will the generator export be limited?  If yes, please indicate how export will be limited.	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter



INTERCONNECTION APPLICATION (Form 79-1174-0302)

**ATTACHMENT F**

**MACHINE-BASED TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>AA - Telemetry</p> <p>Will the Generating Facility Gross Nameplate Rating exceed 1 MW?</p> <p>If yes, please select a Telemetry Option.</p> <p>If one of the Customer-owned Telemetry options is selected, please identify the preferred Site Metering Arrangement.</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>			<p><input type="checkbox"/> Customer-owned Telemetry - Gateway</p> <p><input type="checkbox"/> Customer-owned Telemetry - Aggregator</p> <p><input type="checkbox"/> Mini RTU</p> <p><input type="checkbox"/> Customer-side net load metering</p> <p><input type="checkbox"/> Replace PG&amp;E meter with a Mark V meter and terminal block</p> <p><input type="checkbox"/> Add terminal block to existing PG&amp;E Mark V meter</p> <p><input type="checkbox"/> Replace meter socket with dual-socket meter cabinet for installation of customer-owned meter</p> <p><input type="checkbox"/> Install customer-owned meter in existing dual socket meter cabinet.</p>



INTERCONNECTION APPLICATION (Form 79-1174-0302)

**ATTACHMENT G**

**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
<p>Please indicate the number of each <b>“type” and quantity</b> of Generator being installed.</p> <p>Be sure all Generators classified as one “type” are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p>				
<p>A - Generator/Inverter Manufacturer</p> <p>Enter the brand name of the Generator.</p>				
<p>B - Generator/Inverter Model</p> <p>Enter the model name or number assigned by the manufacturer of the Generator.</p>				
<p>C - Generator/Inverter Software Version</p> <p>If this Generator’s control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.</p>				
<p>D - Is the Generator/Inverter certified?</p> <p>Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&amp;E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory.</p> <p>See PG&amp;E’s Rule 21, Section L for additional information regarding Generator certification.</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>			



INTERCONNECTION APPLICATION (Form 79-1174-0302)

**ATTACHMENT G**

**FUEL CELL TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>E – Anti-Islanding Detection Method</b></p> <p>Please select an Anti-Islanding Detection Method</p> <p>Group 1 – Frequency Shift with continuous positive frequency feedback</p> <p>Group 2A – Frequency Shift with discontinuous or stepped positive frequency feedback</p> <p>Group 2B – Frequency Shift similar to Group 2A except with a dead zone around 60Hz</p> <p>Group 2C – Frequency shift with unidirectional frequency feedback</p> <p>Group 3 – Monitors change of impedance</p> <p>Group 4 – Monitors shift at a harmonic frequency (multiple of the fundamental)</p> <p>Group 5 – Passive methods like rate of change of frequency, vector shift</p> <p>Group 6 – Produces negative sequence current and monitor voltage</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>	<p>Group 1 ____</p> <p>Group 2A ____</p> <p>Group 2B ____</p> <p>Group 2C ____</p> <p>Group 3 ____</p> <p>Group 4 ____</p> <p>Group 5 ____</p> <p>Group 6 ____</p>
<p><b>F –Volt-Var Smart Inverter Setting</b></p> <p><i>If proposing non-default inverter settings, please provide:</i></p> <p>Power Factor Value</p> <p>Inverter Power Factor</p> <p>Volt-Var Voltage Values</p> <p>Volt-Var Reactive Values</p> <p>Volt-Watt Real Power Values</p>	<p>V1 _____</p> <p>Q1 _____</p> <p>V1 _____</p> <p>Q1 _____</p> <p>P1 _____</p>	<p>V2 _____</p> <p>Q2 _____</p> <p>V2 _____</p> <p>Q2 _____</p> <p>P2 _____</p>	<p>V3 _____</p> <p>Q3 _____</p> <p>V3 _____</p> <p>Q3 _____</p> <p>P3 _____</p>	<p>V4 _____</p> <p>Q4 _____</p> <p>V4 _____</p> <p>Q4 _____</p> <p>P4 _____</p>
<p><b>G - Generator Design</b></p> <p>Please indicate the design of each Generator.</p> <p>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.</p>	<p>____ Synch</p> <p>____ Induct.</p> <p>____ Inverter</p>			



**ATTACHMENT G**

**FUEL CELL TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>H - Gross Nameplate Rating (kVA)</b></p> <p>This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate.</p> <p>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.</p>				
<p><b>I - Operating Voltage</b></p> <p>This value should be the voltage rating designated by the manufacturer and used in this Generating Facility.</p> <p>Please indicate phase-to-phase voltages for 3-phase installations.</p> <p>See PG&amp;E's Rule 21, Section H.2.b. and Table H.1., for additional information.</p>				
<p><b>J - Power Factor Rating</b></p> <p>This value should be the nominal power factor rating designated by the manufacturer for the Generator.</p> <p>See PG&amp;E's Rule 21, Section H.2.i. for additional information.</p>				
<p><b>K - PF Adjustment Range</b></p> <p>Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values.</p> <p>See PG&amp;E's Rule 21, Section H.2.i.</p>				
<p><b>L - Wiring Configuration</b></p> <p>Please indicate whether the Generator is a single-phase or three-phase device. See PG&amp;E's Rule 21, Section H.3.</p>				
<p><b>M - (MP) 3-Phase Winding Configuration (Choose One)</b></p> <p>For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>	<p><input type="checkbox"/> 3 Wire Delta</p> <p><input type="checkbox"/> 3 Wire Wye</p> <p><input type="checkbox"/> 4 Wire Wye</p>



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT G

### FUEL CELL TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>N - (MP) Neutral Grounding System Used (Choose One)</p> <p>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.</p> <p>If the grounding method used at this facility is not listed, please attach additional descriptive information.</p>	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms
<p>O - Short Circuit Current Produced by Generator</p>	<u>          </u> (Amps)	<u>          </u> (Amps)	<u>          </u> (Amps)	<u>          </u> (Amps)
<p>P – Prime Mover Type</p> <p>Please indicate the type and fuel used as the prime mover or source of energy for the Generator.</p> <p>1 = Natural Gas            2 = Diesel Fueled            3 = Other Fuel</p>	1   2   3	1   2   3	1   2   3	1   2   3
<p>Q - AC Disconnect</p> <p>For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.</p> <p>See PG&amp;E's Rule 21, Section H.1.d</p> <p>Located within 10 feet of the PG&amp;E meter?</p>	<u>          </u> Manufacturer  <u>          </u> Model #  <u>          </u> Rating (amps)			
<p>R - Lineside Tap</p> <p>Where is the point of interconnection in relation to the main breaker?</p> <p>PG&amp;E has special requirements for a lineside tap.</p> <p>Contact PG&amp;E at: <a href="mailto:Rule21Gen@PGE.com">Rule21Gen@PGE.com</a> for more information.</p>	<u>          </u> Customer side  <input type="checkbox"/> PG&E side			
<p>S – Warranty or Service Agreement</p> <p>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.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No			



**INTERCONNECTION APPLICATION (Form 79-1174-0302)**

**ATTACHMENT G**

**FUEL CELL TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<b>T - Cogeneration</b> Please indicate whether this Generating Facility meets the definition of cogeneration in PUC 216.6 (5% useful thermal and 42.5% efficient):	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>U - Distribution Interconnect Handbook (DIH) and Greenbook Requirements</b> Does this interconnection meet the DIH and Greenbook Requirements	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>V - Gas Clearance Requirements</b> Certify that this interconnection meets Greenbook Gas Clearance Requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>W - Back-up Generator Operation</b> Will the generator be operated as a back-up?  If yes, please indicate control device.	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker
<b>X - Limited Export</b> Will the generator export be limited?  If yes, please indicate how export will be limited.	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter	<input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> Power Control System (PCS – Option 9)  <input type="checkbox"/> Relay  <input type="checkbox"/> Derated Inverter



INTERCONNECTION APPLICATION (Form 79-1174-~~0302~~)

**ATTACHMENT G**

**FUEL CELL TECHNOLOGY**

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>Y - Telemetry</p> <p>Will the Generating Facility Gross Nameplate Rating exceed 1 MW?</p> <p>If yes, please select a Telemetry Option.</p> <p>If one of the Customer-owned Telemetry options is selected, please identify the preferred Site Metering Arrangement.</p>				<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Customer-owned Telemetry - Gateway</p> <p><input type="checkbox"/> Customer-owned Telemetry - Aggregator</p> <p><input type="checkbox"/> Mini RTU</p> <p><input type="checkbox"/> Customer-side net load metering</p> <p><input type="checkbox"/> Replace PG&amp;E meter with a Mark V meter and terminal block</p> <p><input type="checkbox"/> Add terminal block to existing PG&amp;E Mark V meter</p> <p><input type="checkbox"/> Replace meter socket with dual-socket meter cabinet for installation of customer-owned meter</p> <p><input type="checkbox"/> Install customer-owned meter in existing dual socket meter cabinet.</p>



# INTERCONNECTION APPLICATION (Form 79-1174-03)

## ATTACHMENT H

### **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
<p>Please indicate the number of each <b>“type” and quantity</b> of Generator being installed.</p> <p>Be sure all Generators classified as one “type” are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p>				
<p>A - Generator/Inverter Manufacturer</p> <p>Enter the brand name of the Generator.</p>				
<p>B - Generator/Inverter Model</p> <p>Enter the model name or number assigned by the manufacturer of the Generator.</p>				
<p>C - Generator/Inverter Software Version</p> <p>If this Generator’s control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.</p>				
<p>D - Is the Generator/Inverter certified?</p> <p>Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&amp;E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory.</p> <p>See PG&amp;E’s Rule 21, Section L for additional information regarding Generator certification.</p> <p><u>For Net Billing Customers all major solar system components shall comply with Electric Rule 21 Section L.2-L.4 and Section L.7</u></p>	<p>___ Yes</p> <p>___ No</p>			





# INTERCONNECTION APPLICATION (Form 79-1174-03)

## ATTACHMENT H

### ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b>GF</b> - Generator Design</p> <p>Please indicate the design of each Generator.</p> <p>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.</p>	<p>___ Synch</p> <p>___ Induct.</p> <p>___ Inverter</p>			
<p><b>HG</b> - Gross Nameplate Rating (kVA)</p> <p>This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate.</p> <p>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.</p>				
<p><b>IH</b> - Energy Storage Electrical Source Function (in addition, please complete section: "Additional Information Required for Energy Storage")</p>	<p>Max kWh Capacity:</p> <hr/> <p>Rated kW Discharge:</p> <p>_____</p>	<p>Max kWh Capacity:</p> <hr/> <p>Rated kW Discharge:</p> <p>_____</p>	<p>Max kWh Capacity:</p> <hr/> <p>Rated kW Discharge:</p> <p>_____</p>	<p>Max kWh Capacity:</p> <hr/> <p>Rated kW Discharge:</p> <p>_____</p>
<p><b>JJ</b> - Operating Voltage</p> <p>This value should be the voltage rating designated by the manufacturer and used in this Generating Facility.</p> <p>Please indicate phase-to-phase voltages for 3-phase installations.</p> <p>See PG&amp;E's Rule 21, Section H.2.b. and Table H.1., for additional information.</p>				
<del>Generator Information</del>	<del>Existing Generator type 1</del>	<del>Existing Generator type 2</del>	<del>New Generator type 1</del>	<del>New Generator type 2</del>
<p><b>KJ</b> - Power Factor Rating</p> <p>This value should be the nominal power factor rating designated by the manufacturer for the Generator.</p> <p>See PG&amp;E's Rule 21, Section H.2.i. for additional information.</p>				
<p><b>LK</b> - PF Adjustment Range</p> <p>Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values.</p> <p>See PG&amp;E's Rule 21, Section H.2.i.</p>				



# INTERCONNECTION APPLICATION (Form 79-1174-03)

## ATTACHMENT H

### ENERGY STORAGE TECHNOLOGY

<u>Generator Information</u>	<u>Existing Generator type 1</u>	<u>Existing Generator type 2</u>	<u>New Generator type 1</u>	<u>New Generator type 2</u>
<p><b><u>ML</u></b> - Wiring Configuration</p> <p>Please indicate whether the Generator is a single-phase or three-phase device. See PG&amp;E's Rule 21, Section H.3.</p>				
<p><b><u>NM</u></b> - (MP) 3-Phase Winding Configuration (Choose One)</p> <p>For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.</p>	___ 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
<p><b><u>ON</u></b> - (MP) Neutral Grounding System Used (Choose One)</p> <p>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.</p> <p>If the grounding method used at this facility is not listed, please attach additional descriptive information.</p>	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms			
<p><b><u>PQ</u></b> - Short Circuit Current Produced by Generator:</p>	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
<p><b><u>QP</u></b> – Prime Mover Type</p> <p>Please indicate the type and fuel used as the prime mover or source of energy for the Generator.</p> <p>1 = Natural Gas            2 = Diesel Fueled            3 = Other Fuel</p>	1   2   3	1   2   3	1   2   3	1   2   3



# INTERCONNECTION APPLICATION (Form 79-1174-03)

## ATTACHMENT H

### ENERGY STORAGE TECHNOLOGY

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p><b><u>RQ</u></b> - AC Disconnect</p> <p>For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.</p> <p>See PG&amp;E's Rule 21, Section H.1.d</p> <p>Located within 10 feet of the PG&amp;E meter?</p>	<p>_____ Manufacturer</p> <p>_____ Model #</p> <p>_____ Rating (amps)</p> <p>____ Yes ____ No</p>	<p>_____ Manufacturer</p> <p>_____ Model #</p> <p>_____ Rating (amps)</p> <p>____ Yes ____ No</p>	<p>_____ Manufacturer</p> <p>_____ Model #</p> <p>_____ Rating (amps)</p> <p>____ Yes ____ No</p>	<p>_____ Manufacturer</p> <p>_____ Model #</p> <p>_____ Rating (amps)</p> <p>____ Yes ____ No</p>
<p><b><u>SR</u></b> - Energy Storage (ES) System</p> <p>(For important sizing information related to DC-Coupled configurations, see sizing note below).</p>	<p>_____ Manufacturer</p> <p>_____ Model #</p> <p>_____ Quantity of Units</p>			
<p><b><u>IS</u></b> - Lineside Tap</p> <p>Where is the point of interconnection in relation to the main breaker?</p> <p>PG&amp;E has special requirements for a lineside tap.</p> <p>Contact PG&amp;E at: <a href="mailto:Rule21Gen@PGE.com">Rule21Gen@PGE.com</a> for more information.</p>	<p>_____ Customer side</p> <p>____ PG&amp;E side</p>			
<p><b><u>UT</u></b> - Warranty or Service Agreement</p> <p>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.</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>
<p><b><u>VU</u></b> - Distribution Interconnect Handbook (DIH) and Greenbook Requirements</p> <p>Does this interconnection meet the DIH and Greenbook Requirements</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>
<p><b><u>WV</u></b> - Gas Clearance Requirements</p> <p>Certify that this interconnection meets Greenbook Gas Clearance Requirements?</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>	<p>____ Yes ____ No</p>







# INTERCONNECTION APPLICATION (Form 79-1174-03)

## ATTACHMENT H

### 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 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:

\_\_\_\_\_

#### **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/NEM2/NBT-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.



# INTERCONNECTION APPLICATION (Form 79-1174-03)

## ATTACHMENT H

### ENERGY STORAGE TECHNOLOGY

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 79-1174-0302)

## ATTACHMENT I

### 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:

- 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 79-1174-0302)

## ATTACHMENT I

### 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 79-1174-0302)**  
**ATTACHMENT I**  
**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 <b>Name</b> on Account,	(Required field for All Accounts)  PG&E Service Agreement Number	(Required field for All Accounts)  Otherwise Applicable Rate Schedule (OAS) under RES-BCT	(Required Field for All Accounts)  Bill Credit Allocation Percentage (to the nearest whole percentage)
	Generator Account	Benefiting Account	Designated Account Check <i>only one</i> account Must not be a generator account					
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
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 79-1174-032) ATTACHMENT J

## NEM/NEM2 LOAD AGGREGATION

### Part I

This is an appendix to Form 79-1151A-032A, ~~79-1220-023~~, ~~79-978-02~~, ~~79-1137-02~~ or 79-1069-02-03 as applicable. As governed by Schedule NEM/NEM2 Special Condition "Load Aggregation" ~~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 the Special Condition "Load Aggregation" ~~7~~ of PG&E's NEM/NEM2 tariffs as outlined in the Customer Declaration below.

In accordance with this appendix:

- (i) Pursuant to Schedule NEM/NEM2 Special Condition "Load Aggregation" ~~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 accordance with NEM/NEM2 tariff billing requirements-proportion to the electrical load served by these meters, and
- (ii) One time set up fee of \$25 is assessed for each account in the NEM/NEM2 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/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 NEM/NEM2, as Customer-Generator you will be required to represent and warrant under penalty of perjury on the interconnection agreement that:

- 1) NEM/NEM2: 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 including any estimated future additional load; and

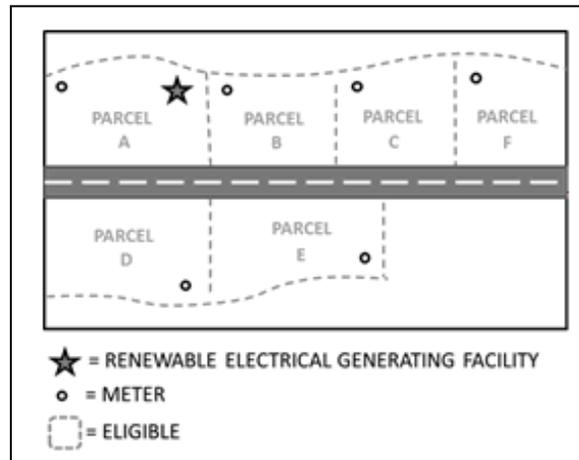
~~4)~~

## NEM/NEM2 LOAD AGGREGATION

- 2) Each of the aggregated account meters associated with this NEM/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)



INTERCONNECTION APPLICATION (Form 79-1174-032)  
ATTACHMENT J

NEM/NEM2 LOAD AGGREGATION

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/NEM2A.

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/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 79-1174-03)

## ATTACHMENT J **NEM/NEM2** LOAD AGGREGATION

<b>NEM/NEM2/NBT Load Aggregation Worksheet</b>								
Accounts	PARCEL NUMBER	ACCOUNT NAME <sup>1 2</sup>	SERVICE ADDRESS	ELECTRIC ACCOUNT NUMBER <sup>2</sup>	ELECTRIC SERVICE AGREEMENT NUMBER <sup>2</sup>	ELECTRIC METER NUMBER <sup>2</sup>	ELECTRIC RATE SCHEDULE <sup>2</sup>	ANNUAL KWH LOAD <sup>3</sup>
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 <b>NEM/NEM2</b> Solar/Wind less than 30kW) - 110% of Total Annual kWh</i>								
<b>Estimated Annual kWh Production</b>			<b>Solar</b> = CEC-AC <sup>4</sup> rating X 1,664 <sup>5</sup> <b>Wind</b> = Total Inverter Nameplate Rating X 2,190 <sup>6</sup> <b>Other Technologies</b> = Total Inverter Nameplate Rating X 7,008 <sup>7</sup>					

<sup>1</sup> If this is a new account, enter *NEW*.

<sup>2</sup> As listed on your Billing Statement

<sup>3</sup> For previous twelve months from date of signature. Please also enter the annual kWh for generator account prior to the generator being installed; if none, enter zero.

<sup>4</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

<sup>5</sup> Estimated Solar Production = 8,760 hrs/yr X 0.19 solar capacity factor = 1,664

<sup>6</sup> Estimated Wind Production = 8,760 hrs/yr X 0.25 wind capacity factor = 2,190

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

# INTERCONNECTION APPLICATION (Form 79-1174-

0302)

## ATTACHMENT K

### 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 79-1174-032)

## ATTACHMENT L

### NEMV/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 NEM/NEM2/NBT 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/NEM2V/NBTV 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/NEM2V/NBTV 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 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 79-1174-032)

## ATTACHMENT L

### NEMV/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 : \_\_\_\_\_ 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.

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

Part 2 - Designation of NEMV/NEM2V/NBT 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/NEM2V/NBTV.
- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV/NEM2V/ Arrangement or for a change to the Allocation for an existing NEMV/NEM2V/NBTV facility, as described in either NEMV/NEM2V/NBTV tariffs. ~~Special Condition 2~~ or ~~3(g)?~~
- This application is for an allocation for the initial, new NEMV/NEM2V/ Arrangement:
- This application is for a reallocation for an existing NEMV/NEM2V/NBTV 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/NEM2V/NBTV. 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 Rule21NEMVGen@pge.com or an electronic application may be submitted on https://yourprojects-pge.com” The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable tariff requirements. Service Delivery Point requirements in the NEMV/NEM2V/NBTV Applicability Section to be Eligible for Schedule NEMV/NEM2V/NBTV.

Please note for each row:

- **Account Type** – (required) – The Generator Account rows 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 the benefitting accounts.
  - **Otherwise Applicable Rate Schedule** – (required) -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- 1 Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage up 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 150% part or all of of the customer's own annual electrical requirements. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated is primarily used to offset the customer's own annual electrical requirements. NEM Oversized Generating Facility Attestation within the applicable NEM Interconnection Agreement.~~
- ~~Attestation Form.~~ - The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV/NEM2V/NBTV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV/NEM2V/NBTV 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/NEM2V/NBTV 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



# INTERCONNECTION APPLICATION (Form 79-1174-032)

## ATTACHMENT L

### NEMV/NEM2V

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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 Benefiting Account in order to verify the credit allocation, they need the Benefiting Account customer's consent. To facilitate this process, please refer to Electric Form 79-1095 "Authorization to Receive Customer Information or Act Upon a Customer's Behalf" within PG&E's Tariffs Website ~~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](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 Benefiting Account customer's billing data to the Owner.



# INTERCONNECTION APPLICATION (Form 79-1174-03)

## ATTACHMENT L

### NEMV/NEM2V

### Section 2

Account Type	Account Type Check only one box for each row (Required field)			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 Benefiting Account Allocation must total 100%. For changes to Existing NEMV/NEM2V Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefiting Account to receive unallocated credits)
	Common Area	Residential Unit	Generator Account (only 1)						
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

Is this a reallocation of an existing NEMV/NEM2V Arrangement? \_\_\_ Yes \_\_\_ No

#### 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/NEM2V/NBTV 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 79-1174-0302)

## ATTACHMENT M

### 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:

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

- No

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](http://www.pge.com/demandresponse) )

- Yes  
If yes, what program are you on? \_\_\_\_\_
- No.



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT M

### 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.

<b>Solar Allocation Percentage for All Common Area Account(s) Listed in the MASH Incentive Application (only required if applying for MASH Track 1a incentives):</b>	<b>Solar Allocation Percentage for All Residential Unit Accounts Listed in MASH Incentive Application (only required if applying for MASH Track 1b incentives):</b>	<b>Both Percentages Must Total 100%</b>
%	%	= 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 79-1174-0302) ATTACHMENT M

## 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 M**  
**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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
					Total Solar Energy Allocation Percentage for this page _____			



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT N

### 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](mailto:smarter-energy@pge.com), 1-800-933-9555 (residential) or [BusinessCustomerHelp@pge.com](mailto: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](http://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](mailto: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:

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

No

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](http://www.pge.com/demandresponse) )

- Yes  
If **yes**, what program are you on? \_\_\_\_\_
- No.

**Please complete this application in its entirety**



# INTERCONNECTION APPLICATION (Form 79-1174-0302)

## ATTACHMENT N

### 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-~~0302~~)

## ATTACHMENT N

### 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-~~0302~~)

## ATTACHMENT N

### 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	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
2	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
3	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
4	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
5	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
6	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
7	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
8	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
9	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
10	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
11	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
12	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
13	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
14	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
15	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
Total Solar Generation this page							Total Solar Energy Allocation Percentage for this page			

**Please complete this application in its entirety**

# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net ~~Billing Tariff~~ ~~Energy Metering~~ (NBTEM2) Interconnection

### for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification



**IMPORTANT NOTES:**

- Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.
- City and County of San Francisco (“CCSF”) owned generating facilities seeking Schedule NEMCCSF or participants in the Demand Response Programs below are not eligible to participate in NBTEM2.
  - 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 NBTEM2 program.

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

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

Standard ~~Net Billing Tariff~~ (NBTEM2) Agreement Type:  Single Account  ~~Multiple Aggregated~~ Accounts

~~Note: Net Billing Tariff Energy Metering Aggregation 2 (NBTEM2A) is a program that allows customers with multiple meters to use the renewable energy generated at one meter to be credited against other meters that are located on parcel(s) that is/are contiguous or adjacent to the parcel that has the renewable generator.~~

Customer Sector (check only one):

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

Account Holder Name\* (Individual or Company) \_\_\_\_\_ Electric Service Agreement ID \* \_\_\_\_\_ Meter Number\* \_\_\_\_\_

Service Address\* \_\_\_\_\_ City\* \_\_\_\_\_ State CA Zip\* \_\_\_\_\_

Customer Phone Number \_\_\_\_\_ Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record) \_\_\_\_\_

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

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

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

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

**Please complete this agreement in its entirety**

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

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**



**for Solar and/or Wind Electric Generating Facilities  
of 30 Kilowatts or Less: with Energy Storage of 10  
Kilowatts or Less, or Energy Storage with Power  
Control System Certification**

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

Company Name	Contact Person
Contact Phone Number	Email

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

**Part II – NBTEM2 Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the associated Interconnection Request. The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection. In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) a **valid Interconnection Request**, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

~~The Generating Facility should be sized such that its total annual output in kWh is primarily used to offset the customer's own annual electrical requirements. The NBT Customer NBT systems should be sized, such that the total annual output in kWh of the generator is primarily used to offset the customer's own annual electrical requirements. The customer is allowed to oversize their Generating Facility by executing the for future load (i.e., electric vehicle, or other electrical appliances to support electrification) by executing the NBT Oversized Generating Facility Attestation in Part IV, section G Attestation. All NBT customers must take service on a Time of Use rate schedule. There may be limitations on which TOU rate schedule a residential customer is allowed to be on. Please refer to the NBT tariff for more detail information.~~

~~NBTEM2 systems should be sized with an estimated annual production no larger than 1500% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. All NBTEM2 customers must take service on a Time of Use rate schedule, and sizing your system to offset 80% -85% of your average electricity usage could be an effective way to minimize your electricity bill<sup>A</sup>. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data](#)."~~

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

# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2)

### Interconnection



## for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification

### B. Generator System Sizing

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

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

Generator System Type:       Solar                       Wind                       Both

**Estimated Annual Production:**

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

**Estimated Annual Energy Usage:**

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

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

**Net Generation:**

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

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

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

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

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

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

**Please complete this agreement in its entirety**

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**



**for Solar and/or Wind Electric Generating Facilities  
of 30 Kilowatts or Less: with Energy Storage of 10  
Kilowatts or Less, or Energy Storage with Power  
Control System Certification**

If not, please provide:

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

**Part III – Rate Selection**

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

**Otherwise Applicable Rate Schedule (OAS) for NBT Account:** ~~Select one rate from the category applicable to you. All NBT customers must take service on a Time of Use rate schedule. There may be limitations on the which TOU rates schedule a available to residential customers enrolling on the NBT is allowed to be on. Please refer to the NBT tariff for more detailed information. Please make sure the rate you selected is applicable to the NBT tariff.~~ **NBTEM2 Account:** ~~Select one rate from the category applicable to you. NBTEM2 residential non-CARE customers must be on the E-Elec schedule an applicable time-of-use rate<sup>F</sup> schedule. Customers who qualify for CARE or FERA treatment may take service on any applicable Time-of-Use schedule.~~ If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

Stay on existing rate \_\_\_\_\_

Requested new rate \_\_\_\_\_

**Part IV – Interconnection Agreement Provisions**

**A. Applicability**

This Agreement applies to Electric Schedule NBTEM2 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

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

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.

# AGREEMENT AND CUSTOMER AUTHORIZATION Net Billing Tariff ~~Energy Metering~~ (NBTEM2) Interconnection



## for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification

Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, PG&E's Electric Rule 21, and other rules approved by the CPUC regarding safety and reliability. A Customer with a solar or wind-turbine electric generating system, or a hybrid system of both, that meets

those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

### D. Safe Operation of your Generating Facility

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

### E. AC Disconnect Switch

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

### F. Rate

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

### ~~G. NEM2 Billing~~

~~The Customer's meter separately measures exports and imports.~~

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

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

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

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**



**for Solar and/or Wind Electric Generating Facilities  
of 30 Kilowatts or Less: with Energy Storage of 10  
Kilowatts or Less, or Energy Storage with Power  
Control System Certification**

**H. Net Surplus Compensation (NSC)**

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

**G. Limitation of Liability NBT Oversized Generating Facility Attestation**

~~The total annual output of the Generating Facility should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).~~

~~Customer is allowed to oversize their Generating Facility. To do so, Customer must check the box below indicating that they have read and attest to the four bullet points listed:~~

I (Customer) attest as follows:

- ~~• My Generating Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);~~
- ~~• The Generating Facility's estimated annual production in kWh is no larger than: (a) 150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). OR, My electrical usage has recently increased and the Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.~~
- ~~• I expect to increase my electrical usage to correspond with the size of my Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).~~
- ~~• I understand that PG&E reserves the right to further validate that my Generating Facility is sized in accordance with the NBT.~~



**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**for Solar and/or Wind Electric Generating Facilities**  
**of 30 Kilowatts or Less: with Energy Storage of 10**  
**Kilowatts or Less, or Energy Storage with Power**  
**Control System Certification**

**I.H. Limitation of Liability**

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

**J.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.

**K.J. Governing Authority**

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

**L.K. 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 NBTEM2.

**M.L. Meter Access**

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

**M. Stale Agreements**

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

**N. Rule 21 Certified/Non-Certified Interconnection Equipment**

~~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 NBTEM2.~~

**O. Rule 21 Certified/Non-Certified Interconnection Equipment CEC Listed**

**AGREEMENT AND CUSTOMER AUTHORIZATION  
Net Billing Tariff ~~Energy Metering~~ (NBTEM2)  
Interconnection**



**for Solar and/or Wind Electric Generating Facilities  
of 30 Kilowatts or Less: with Energy Storage of 10  
Kilowatts or Less, or Energy Storage with Power  
Control System Certification**

~~P. In order to promote the safety and reliability of the Customer's Generating Facility, the applicant~~ Customer certifies that as a part of its request for NBT, that all major solar system components ~~are listed in /shall comply with Sections L.2-L.4 and Section L.7 of PG&E Electric Rule 21 No. 21 (Rule 21).~~ In order to promote the safety and reliability of the customer's Generating Facility, the applicant certifies that as a part its request for NBTEM2, 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.

**Q.O. Warranties or Service Agreements**

Applicant certifies as a part of its interconnection request for NBTEM2 that:

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

# AGREEMENT AND CUSTOMER AUTHORIZATION Net ~~Billing Tariff~~ Energy Metering (NBTEM2) Interconnection



## for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: with Energy Storage of 10 Kilowatts or Less, or Energy Storage with Power Control System Certification

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

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

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>6</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

### **S.Q. Power Control System Certification**

By signing below, customer confirms that Energy Storage ~~over~~ operating with a Power Control System (PCS) 40 kW has received UL 1741 CRD for ~~Power Control Systems (PCS)~~ certification that will comply with either No Grid Charge or No Storage Export as defined in Schedule NBTEM2.

### **R. Building Code-Required Solar Installations**

Customers who are required to add solar in accordance with building code (Title 24) requirements are not eligible to receive the additional export credit (ACC Plus). Customer acknowledges that information relating to building code-

<sup>6</sup> A complete application consists all of the following without deficiencies:

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

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.



**AGREEMENT AND CUSTOMER AUTHORIZATION  
Net ~~Billing Tariff~~ ~~Energy Metering~~ (NBTEM2)  
Interconnection**

**for Solar and/or Wind Electric Generating Facilities  
of 30 Kilowatts or Less: with Energy Storage of 10  
Kilowatts or Less, or Energy Storage with Power  
Control System Certification**

required solar installations collected in form 79-1151B-03 may impact eligibility for the additional export credits (ACC Plus).

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**



**for Solar and/or Wind Electric Generating Facilities  
of 30 Kilowatts or Less: with Energy Storage of 10  
Kilowatts or Less, or Energy Storage with Power  
Control System Certification**

**Part V – Signature**

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THE FULLY POPULATED DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY. THIS FORM MUST BE SIGNED BY THE EXISTING PG&E CUSTOMER LISTED IN PART I.**

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

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

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

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 4)5) I understand that the NBT allows for oversizing, and I have completed and reviewed Part IV, section G, the NBT Oversized Generating Facility Attestation, if my Generating Facility is oversized.
- 5)6) 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)

**Please complete this agreement in its entirety**

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**



**for Solar and/or Wind Electric Generating Facilities  
of 30 Kilowatts or Less: with Energy Storage of 10  
Kilowatts or Less, or Energy Storage with Power  
Control System Certification**

---

(e.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 NBTEM2 requirements.



# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

This Interconnection Agreement for Net Billing Tariff Energy Metering (NBTEM2) and Renewable Electrical Generating Facility Sized Greater than 1,000 kW (Agreement)<sup>1</sup> is entered into by and between \_\_\_\_\_ (Customer-Generator), and Pacific Gas and Electric Company (PG&E), a California Corporation. Customer-Generator and PG&E are sometimes also referred to in this Agreement jointly as “Parties” or individually as “Party.” In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

## 1. SCOPE AND PURPOSE

This Agreement provides for Customer-Generator to interconnect and operate a Generating Facility in parallel with PG&E’s Electric System to serve the electrical loads connected to the electric service agreement ID number that PG&E uses to interconnect Customer-Generator’s Generating Facility. ~~The Generating Facility should be sized such that its total annual output in kWh is primarily used to offset the customer’s own annual electrical requirements. The NBT customer is allowed to oversize their Generating Facility by executing the NBT Oversized Generating Facility Attestation in Appendix E of this document. Customer-Generator’s Generating Facility is intended primarily to offset part or all of the Customer-Generator’s own electrical requirements and should be no larger than 150% of the customer’s own electrical requirements. Consistent with, and in order to effectuate, the provisions of Sections 2827, and 2827.7 of the California Public Utilities Code and PG&E’s electric rate Schedule NBTEM2 (NBTEM2), Parties enter into this Agreement.~~ This Agreement applies to the Customer-Generator’s Generating Facilities identified below with the specified characteristics and generating capacity, and does not allow interconnection or operation of facilities different than those described.

## 2. SUMMARY AND DESCRIPTION OF CUSTOMER-GENERATOR’S GENERATING FACILITY AND DESIGNATION OF OTHERWISE-APPLICABLE RATE SCHEDULE

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

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

2.3 Customer-Generator’s electric service agreement ID number: \_\_\_\_\_ (Assigned by PG&E).

2.4 Name and address used by PG&E to locate the electric service agreement ID number used to interconnect the Generating Facility with PG&E’s Electric System:

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

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

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

<sup>1</sup> Additional forms are available on PG&E’s website at <http://www.pge.com/gen>.



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

- 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 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.
- 2.8 Customer-Generator’s otherwise-applicable rate schedule as of the execution of this Agreement \_\_\_\_\_. Customer-Generator accepts that there may be limitations on otherwise-applicable rate schedule under the NBT tariff which would require the customer to change their otherwise applicable rate schedule.
- 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 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 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,



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

- (c) the Customer-Generator provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>2</sup> no later than March 31, 2018, or
- (d) the Customer-Generator provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

**3. DOCUMENTS INCLUDED AND DEFINED TERMS**

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

Attachment A Additional Terms and Conditions for Projects Requiring Interconnection Facilities and/or Upgrades to PG&E’s Distribution and/or Transmission System

Attachment B Final Study Report Including Description and Costs of the Generating Facility, Interconnection Facilities, Metering Equipment, Distribution and/or Network Upgrades ~~and Cost Responsibility~~

Attachment C Expected Date of Initial Operation

Attachment D 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).

Attachment ~~DE~~ NBT Oversized Generating Facility Attestation NEM2V or NEM2VMSH Storage (when applicable)

~~Attachment EF NEM2 Load Aggregation Customer-Generator Declaration Warranting NEM2 Aggregation Is Located on Same or Adjacent or Contiguous Property to Generator Parcel (when applicable)~~

<sup>2</sup> A complete application consists all of the following without deficiencies:

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



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

Attachment ~~FF~~ ~~G~~ — Addendum for Net ~~Billing Tariff~~ ~~Energy Metering~~ Multiple Tariff (when applicable)

Attachment ~~GGH~~ Producer’s Warranty that the Generating Facility is a “Cogeneration Facility” Pursuant to Section 216.6 of the California Public Utilities Code (when applicable)

Attachment ~~HHI~~ 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 (when applicable)

Attachment ~~IJJ~~ Schedule ~~NBTEM2~~ Customer-Generator Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility ~~Pursuant to Section 2827.1 of the California Public Utilities Code (when applicable)~~

Attachment ~~JJK~~ Operating Requirements for Energy Storage Device(s) (when applicable)

Attachment ~~KK~~ NEMFC Customer Agreement Starting January 1, 2017 Until California Air Resources Board Emission Standard is Established (when applicable)

In addition, PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule ~~NBTEM2~~, 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 C.

**4. CUSTOMER BILLING AND PAYMENT**

Customer-Generator initially selected Pacific Gas and Electric Company’s electric rate schedule referenced in Section 2.~~87~~ 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 ~~NBTEM2~~.

**5. TERM AND TERMINATION**

5.1 This Agreement shall become effective as of the last date entered in Section ~~187~~ below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

- (a) The Parties agree in writing to terminate the Agreement.
- (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service agreement ID number through which Customer-Generator’s Generating Facility is interconnected to PG&E is closed or terminated.
- (c) At 12:01 A.M. on the 61<sup>st</sup> day after Customer-Generator or PG&E provides written Notice pursuant to Section 10 below to the other Party of Customer-Generator’s or PG&E’s intent to terminate this Agreement.



## INTERCONNECTION AGREEMENT FOR NET **BILLING TARIFF ENERGY METERING (NBTEM2)** AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

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- 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 completed *Generating Facility Interconnection Application for Non-Export or Certain Net Energy*



# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

~~Billing Tariff Metered~~-Generating Facilities (Form 79-1174-032), including all supporting documents and payments as described in the Application; (2) a signed and completed Interconnection Agreement for Net ~~Billing Tariff Energy Metering (NBTEM2)~~ and Renewable Generating Facility Sized Greater than 1,000 kW (Form 79-1198-0203); and (3) a copy of the Customer-Generator’s final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.

- 6.4 In order to promote the safety and reliability of the customer Generating Facility, the Customer-Generator certifies ~~that~~ as a part of ~~its this interconnection~~ request for NBTEM2, that all major solar system components comply with Sections L.2-L.4 and Section L.7 of PG&E Electric Rule 21 (Rule 21). ~~are on the verified equipment list maintained by the California Energy Commission and certifies that other equipment, as determined by PG&E, has safety certification from a nationally recognized testing laboratory.~~
- 6.5 Customer-Generator certifies as a part of this interconnection request for NBTEM2 that
  - (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
  - (ii) a 10-year service warranty or executed “agreement” has been provided ensuring proper maintenance and continued system performance.
- 6.6 Customers on this tariff must pay for the interconnection of their Generation Facilities as provided in Electric Rule 21, ~~pursuant to Decision 16-01-044.~~

## 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

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.

- 8.1 If at any time during this agreement the Customer-Generator fails to meet the requirements in Section 6 and is not self-insured under Section 89.3, the following insurance shall apply:



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

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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



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

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- (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.

8.2 If Customer-Generator's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section ~~89~~.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 ~~110~~.1, the requirements of Section ~~89~~.1 may be waived.

8.3 Customer-Generator may self-insure with approval from PG&E. Evidence of an acceptable plan to self-insure, at least thirty (30) calendar days' prior to operations shall be submitted. Customer-Generators such as state agencies that self-insure under this section are exempt from Section 9.1.

If Customer-Generator ceases to self-insure to the level required hereunder, or if Customer-Generator is unable to provide continuing evidence of Customer-Generator's ability to self-insure, Customer-Generator agrees to immediately obtain the coverage required under agreement.

8.4 All required certificates, endorsements or letters of self-insurance shall be issued and submitted via email to the following:

Pacific Gas and Electric Company  
Attn: Insurance Department  
77 Beale St.  
San Francisco, CA 94105



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

**9. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS**

- 9.1 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 910.1 is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.
- 9.2 The provisions of this Section 109 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.

**10. NOTICES**

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

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

If to Customer-Generator:

Customer-Generator Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 Phone: (\_\_\_\_) \_\_\_\_\_  
 FAX: (\_\_\_\_) \_\_\_\_\_

- 10.2 A Party may change its address for Notices at any time by providing the other Party notice of the change in accordance with Section 110.1.
- 10.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

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**11. REVIEW OF RECORDS AND DATA**

- 11.1 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.
- 11.2 Customer-Generator authorizes to release to the California Energy Commission (CEC) information regarding Customer-Generator's facility, including customer name and Generating Facility location, size, and operational characteristics, as requested from time to time pursuant to the CEC's rules and regulations.

**12. 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.

**13. 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.

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

- 14.1 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.
- 14.2 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.
- 14.3 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.
- 14.4 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.

**15. AMENDMENT AND MODIFICATION**

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



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

**16. 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.

**17. 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.

_____	<b>PACIFIC GAS AND ELECTRIC COMPANY</b>
(Customer Generator's Name)	
_____	_____
(Signature)	(Signature)
_____	_____
(Print Name)	(Print Name)
_____	_____
(Title)	(Title)
_____	_____
(Date)	(Date)



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

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ATTACHMENT A

Additional Terms and Conditions for Projects Requiring Interconnection  
Facilities and/or Upgrades to PG&E's Distribution and/or Transmission  
System

**Section 1. Cost Responsibility for Interconnection Facilities and Distribution Upgrades**

**1.1. Interconnection Facilities**

1.1.1. The Interconnection Customer shall pay for the cost of the Interconnection Facilities itemized in Attachment B of this Agreement. The Distribution Provider shall provide a best estimate cost, including overheads, for the purchase and construction of its Interconnection Facilities and provide a detailed itemization of such costs. Costs associated with Interconnection Facilities may be shared with other entities that may benefit from such facilities by agreement of the Interconnection Customer, such other entities, and the Distribution Provider.

1.1.2. The Interconnection Customer shall be responsible for its share of all reasonable expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its own Interconnection Facilities, and (2) operating, maintaining, repairing, and replacing the Distribution Provider's Interconnection Facilities.

1.1.3. 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 Attachment D.

**1.2. 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 Attachment D. The actual cost of the Distribution Upgrades, including overheads, shall be directly assigned to the Interconnection Customer.

~~The Distribution Provider shall design, procure, construct, install, and own the Distribution Upgrades described in Attachment B of this Agreement. If the Distribution Provider and the Interconnection Customer agree, the Interconnection Customer may construct Distribution Upgrades that are located on land owned by the Interconnection Customer. The actual cost of the Distribution Upgrades, including overheads, shall be directly assigned to the Interconnection Customer.~~



# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

## Section 2. Cost Responsibility for Network Upgrades

### 2.1. Applicability

No portion of this Section ~~5-2~~ shall apply unless the interconnection of the Generating Facility requires Network Upgrades.

### 2.2. Network Upgrades

The Distribution Provider or the Distribution Owner shall design, procure, construct, install, and own the Network Upgrades described in Attachment B of this Agreement. If the Distribution Provider and the Interconnection Customer agree, the Interconnection Customer may construct Network Upgrades that are located on land owned by the Interconnection Customer. 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 2.2.1 directs otherwise.

#### 2.2.1. Repayment of Amounts Advanced for Network Upgrades

To the extent that the CAISO Tariff 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 paid to the Distribution Provider and Affected System operator for Network Upgrades, and no cash repayment shall be made pursuant to this Agreement.

##### 2.2.1.1. If the Interconnection Customer is entitled to a cash repayment

pursuant to Section 2.2.1, 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



# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

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 non-usage 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.

2.2.1.2. 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 Section 2.2.1. 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.

## 2.3. Rights Under Other Agreements

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.

## ~~Section 3. Billing, Payment, Milestones, and Financial Security~~

### ~~3.1. Billing and Payment Procedures and Final Accounting~~

~~3.1.1. The Distribution Provider shall bill the Interconnection Customer for the design, engineering, construction, and procurement costs, including any applicable taxes, of Interconnection Facilities and Upgrades contemplated by this Agreement on a monthly basis, or as otherwise agreed by the Parties. The Interconnection Customer shall pay each bill within 30 calendar days of receipt, or as otherwise agreed to by the Parties.~~

~~3.1.2. Within twelve months of completing the construction and installation of the Distribution Provider's Interconnection Facilities and/or Upgrades described in the Attachments to this Agreement, the Distribution Provider shall provide the Interconnection Customer with a final accounting report of any difference between (1) the Interconnection Customer's cost responsibility for the actual cost of such facilities or Upgrades, and (2) the Interconnection Customer's previous aggregate payments to the Distribution Provider for such facilities or Upgrades. If the Interconnection Customer's cost responsibility exceeds its previous aggregate payments, the Distribution Provider shall invoice the Interconnection Customer for the amount due and the Interconnection Customer shall make~~



# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

~~payment to the Distribution Provider within 30 calendar days. If the Interconnection Customer's previous aggregate payments exceed its cost responsibility under this Agreement, the Distribution Provider shall refund to the Interconnection Customer an amount equal to the difference within 30 calendar days of the final accounting report.~~

### ~~3.2. Expected Date of Initial Operation~~

~~Interconnection Customer may request Distribution Provider to construct, and Distribution Provider shall construct, using Reasonable Efforts to accommodate Interconnection Customer's Expected Date of Initial Operation. If a Party anticipates that it will be unable to meet a milestone for any reason other than a Uncontrollable Force Event, it shall immediately notify the other Party of the reason(s) for not meeting the milestone and propose the earliest reasonable alternate date by which it can attain this and future milestones.~~

### ~~3.3. Financial Security Arrangements~~

~~For projects studied under the Fast Track Interconnection Review Process, no more than 120 Calendar Days after the Effective Date of this agreement, the Interconnection Customer shall provide the Distribution Provider, at the Interconnection Customer's option, a guarantee, a surety bond, letter of credit or other form of security that is reasonably acceptable to the Distribution Provider and is consistent with the Uniform Commercial Code of the jurisdiction where the Point of Interconnection is located.~~

~~For projects studied under the Detailed Study Interconnection Review Process, The Interconnection Customer is obligated to provide all necessary Interconnection Financial Security required under Rule 21 Section F.4.~~

~~Regardless of Review Process, such security for payment shall be in an amount sufficient to cover the costs for constructing, designing, procuring, and installing the applicable portion of the Distribution Provider's Interconnection Facilities and Upgrades and shall be reduced on a dollar-for-dollar basis for payments made to the Distribution Provider under this Agreement during its term.~~

~~In addition:~~

~~3.3.1. The guarantee must be made by an entity that meets the creditworthiness requirements of the Distribution Provider, and contain terms and conditions that guarantee payment of any amount that may be due from the Interconnection Customer, up to an agreed to maximum amount.~~

~~3.3.2. The letter of credit or surety bond must be issued by a financial institution or insurer reasonably acceptable to the Distribution Provider and must specify a reasonable expiration date.~~

## **Section 43. Taxes**

### **43.1. Applicable Tax Laws and Regulation**

The Parties agree to follow all applicable tax laws and regulations, consistent with CPUC policy and Internal Revenue Service requirements.



# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

~~43.1.1 In the application of IRS Notice 2016-36, any Income Tax Component of Contribution (ITCC) for Interconnection Facilities, Distribution Upgrades and Network Upgrades (based on the enclosed estimates) will be billed to the Interconnection Customer and collected by the Distribution Provider as per Section 3.1.1. The Distribution Provider shall true-up the final ITCC charges based on actual final costs and will either refund any excess ITCC collected by the Distribution Provider or bill the Interconnection Customer the additional ITCC charges that are required.~~

## 43.2. Maintenance of Tax Status

Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this Agreement is intended to adversely affect the Distribution Provider's tax-exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

## Section 54. Environmental Releases

Each Party shall notify the other Party, first orally and then in writing, of the release of any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall (1) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than 24 hours after such Party becomes aware of the occurrence, and (2) promptly furnish to the other Party copies of any publicly available reports filed with any governmental authorities addressing such events.

## Section 65. Subcontractors

Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

65.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall the Distribution Provider be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under this Agreement. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

65.2 The obligations under this article will not be limited in any way by any limitation of subcontractor's insurance.



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**ATTACHMENT B**

**Final Study Report Including Description and Costs of the Generating Facility, Interconnection Facilities, Metering Equipment, Distribution and/or Network Upgrades and Cost Responsibility**

Final study report includes equipment, including the Generating Facility, Interconnection Facilities, and metering equipment itemized and identified as being owned by the Interconnection Customer, the Distribution Provider, or the Distribution Owner. The Distribution Provider will provide a best estimate itemized cost, including overheads, of its Interconnection Facilities and metering equipment, and a best estimate itemized cost of the annual operation and maintenance expenses associated with its Interconnection Facilities and metering equipment. Additionally, NBT and NEM program specific information relating to the Interconnection Customer's Generating Facility and any associated arrangements (i.e. NBTEM2, NBTEM2A, NBT-EM2MT, NBTEM2V, NEM2VMSH (1 SDP), and NEMVMSH (DEV)) will be set forth in this attachment.

Final study report includes description of Upgrades and provides an itemized best estimate of the cost, including overheads, of the Upgrades and annual operation and maintenance expenses associated with such Upgrades. The Distribution Provider shall functionalize Upgrade costs and annual expenses as either transmission or distribution related.

**Total Project Costs:**

<b>Cost Category</b>	<b>Amount Subject to Cost of Ownership (\$)</b>	<b>Amount NOT Subject to Cost of Ownership (\$)</b>	<b>Total Cost Category Amount (\$)</b>
<del>Interconnection Facilities Costs (from final study Cost Estimate)</del>			
<del>Distribution Upgrade Costs (from final study Cost Estimate)</del>			
<b>Total Project Costs</b>			

~~The Interconnection Customer has elected the following by placing a check mark against it for Cost of Ownership for the applicable Interconnection Facilities and/or Distribution Upgrade. Details on the scope that is subject to Cost of Ownership are found in the Final Study Report cost table in Attachment B for Interconnection Facilities and Distribution Upgrades. These Cost of Ownership charges shall commence on the date Special Facilities are first available for Applicant's use, as such date is established in PG&E's records. PG&E will notify Applicant, in writing, of such commencement date.~~

~~A.  **Monthly Cost of Ownership Charge**~~

~~\_\_\_\_\_ \$ \_\_\_\_\_ x \_\_\_\_\_ (current percentage rate) = \$ \_\_\_\_\_~~

~~B.  **Equivalent One-Time Charge** (in lieu of recurring Monthly Cost of Ownership Charge)~~

~~\_\_\_\_\_ \$ \_\_\_\_\_ / month x 12 months x \_\_\_\_\_ (present worth factor) = \$ \_\_\_\_\_~~



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

ATTACHMENT C

Expected Date of Initial Operation

Interconnection Customer may request Distribution Provider to construct, and Distribution Provider shall construct, using Reasonable Efforts to accommodate Interconnection Customer's Expected Date of Initial Operation

Expected Date of Initial Operation: \_\_\_\_\_

For the Interconnection Customer \_\_\_\_\_ Date \_\_\_\_\_



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ATTACHMENT D

Rule 21 Special Facilities Agreement

(Formed by the Parties)



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

ATTACHMENT DE

NEM2V or NEM2VMSH Storage-NBT Oversized Generating Facility Attestation (when/When applicable)

~~Applicants adding storage pursuant to Schedules NEM2V or NEM2VMSH under the Special Condition for storage must include proper documentation per PG&E's Distribution Interconnection Handbook (DIH).~~

The total annual output of the Generating Facility should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).

Customer is allowed to oversize their Generating Facility provided Customer executes this form attesting as follows:

- My Generation Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);
- The Generating Facility's estimated annual production in kWh is no larger than: (a) 150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). OR, My electrical usage has recently increased and the Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.
- I expect to increase my electrical usage to correspond with the size of my Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).
- I understand that PG&E reserves the right to further validate that my Generating Facility is sized in accordance with the Net Billing Tariff (NBT).

By signing below, I declare under penalty of perjury under the laws of the State of California that the information provided in this Attestation is true and correct.

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

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

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

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



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Title

# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

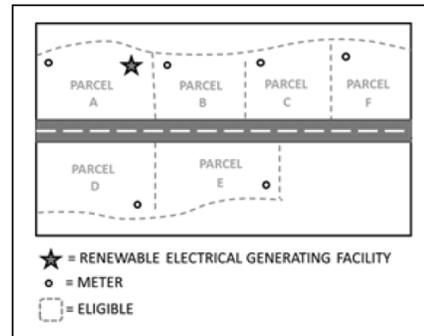
## ATTACHMENT EF

### ~~NEM NBT Load Aggregation Customer-Generator Declaration Warranting NBTEM2 Aggregation Is Located on Same or Adjacent or Contiguous Property to Generator Parcel (when applicable)~~

In accordance with Schedule NBTEM2, 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 1500% 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 NBTEM2 generator account are located either:
 
  - ~~a. on the property where the renewable electrical generation facility is located, or~~
  - ~~b. 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 item 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 Attachment 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 NBTEM2 Special Condition 6 including but not limited to parcel maps and ownership records.~~

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

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

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

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

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

**INTERCONNECTION AGREEMENT FOR NET  
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**ATTACHMENT FFG**

Addendum for Net-NetET Energy Metering Billing Tariff Multiple Tariff  
(when applicable)

This Addendum represents mutual agreement between PG&E and Customer to provide for an interim arrangement to accommodate interconnection under Interconnection Agreement for Net-NetET Billing Tariff Energy Metering (NBTEM2) and Renewable Electrical Generating Facility Sized Greater Than 1,000 kW consistent with the multiple tariff treatment provided in PG&E Schedule NBTEM, Special Condition 4 (NBTEMMT). The Parties enter into this Addendum pursuant to Rule 21 Section H.1.f.

**1. MULTIPLE TARIFF GENERATING FACILITY DESCRIPTION**

- 1.1. In addition to the requirements of Electric Rule 21 and the GIA, Customer will abide by the requirements in the interconnection and operation of its Generating Facility described below.
- 1.2. The Gross Nameplate Rating of the Generating Facility is:
  - 1.2.1. Eligible Generator(s):

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Biomass	NEM4: _____ Kw NEM2: _____ Kw <b>NBT:</b> _____ kW	Digester gas	NEM4: _____ kW NEM2: _____ Kw <b>NBT:</b> _____ kW
Solar thermal	NEM4: _____ Kw NEM2: _____ Kw <b>NBT:</b> _____ Kw	Municipal solid waste	NEM4: _____ kW NEM2: _____ Kw <b>NBT:</b> _____ kW
Photovoltaic	NEM4: _____ kW NEM2: _____ Kw <b>NBT:</b> _____ kW	Landfill gas	NEM4: _____ kW NEM2: _____ Kw <b>NBT:</b> _____ kW
Wind	NEM4: _____ kW NEM2: _____ Kw <b>NBT:</b> _____ kW	Ocean wave	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Geothermal	NEM4: _____ kW NEM2: _____ Kw <b>NBT:</b> _____ kW	Ocean thermal	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Fuel cell	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Tidal current	NEM4: _____ kW NEM2: _____ Kw <b>NBT:</b> _____ kW
Small hydroelectric generation	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Storage/Batteries (NEM/NBT eligible only) _____ amp hours _____ inverter kW	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW

1.2.2. Non-Eligible Generator(s): \_\_\_\_\_ kW

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

1.3. The Net Nameplate Rating of the Generating Facility is:

1.3.1. Eligible Generator(s):

## INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

Biomass	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Digester gas	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Solar thermal	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Municipal solid waste	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Photovoltaic	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Landfill gas	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Wind	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Ocean wave	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Geothermal	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Ocean thermal	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Fuel cell	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Tidal current	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW
Small hydroelectric generation	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW	Storage/Batteries (NEM/ <b>NBT</b> eligible only) _____ amp hours _____ inverter kW	NEM4: _____ kW NEM2: _____ kW <b>NBT:</b> _____ kW

1.3.2. Non-Eligible Generator(s): \_\_\_\_\_ kW

1.3.3. Total Net Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW

## INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

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

Biomass	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>	Digester gas	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>
Solar thermal	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>	Municipal solid waste	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>
Photovoltaic	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>	Landfill gas	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>
Wind	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>	Ocean wave	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>
Geothermal	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>	Ocean thermal	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>
Fuel cell	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>	Tidal current	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>
Small hydroelectric generation	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>	Storage/Batteries (NEM/NBT eligible only) _____ amp hours _____ inverter kW	NEM4: _____ kW NEM2: _____ kW <u>NBT: _____ kW</u>



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1.4.1. Non-Eligible Generator(s): \_\_\_\_\_ kW

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

**INTERCONNECTION AGREEMENT FOR NET  
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**ATTACHMENT GGH**

**Producer's Warranty that the Generating Facility is a "Cogeneration Facility" Pursuant to Section 216.6 of the California Public Utilities Code (when applicable)**

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 911.1 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 119.1 of this Agreement. Such Notice shall specify the effective date of the Cogeneration Status Change. This date shall be the first day of the calendar year for which PG&E determines in its reasonable discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E shall invoice the Producer's electric service account through which the Generating Facility is Interconnected with PG&E's Electric System for Competition Transition Charges (CTCs) that were not previously billed during the period between the effective date of the Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Cogeneration Requirements and therefore was eligible for the exemption from CTCs available under Section 372 of the PU Code.

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



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

---

**ATTACHMENT H/H**

**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 (when applicable)**

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 119.1 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 119.1 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.



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

ATTACHMENT HJ

Schedule NBTEM2 Customer-Generator Warranty that it Meets the Requirements for an Eligible Customer-Generator and is an Eligible Renewable Electrical Generation Facility. ~~Pursuant to Section 2827.1 of the California Public Utilities Code (when applicable)~~

(This Affidavit needs to be completed and submitted to PG&E by the Customer-Generator every time a new NBTEM2 interconnection agreement for a Renewable Electrical Generation Facility is executed or whenever there is a change in ownership of the Generating Facility).

Check Type of Renewable Electrical Generation Facility:

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

NBTEM2 Customer-Generator (Customer) declares that:

- (1) It meets the requirements to be an “Eligible Customer-Generator” and it’s Generating Facility.
- (2) (a) meets the requirements of an “Renewable Electrical Generation Facility”, ~~as defined in Section 2827(b)(5) of the California Public Utilities Code~~ and  
(b) satisfies the definitions of the renewable resource for the Renewable Electrical Generation Facility in the latest version of the California Energy Commission’s (CEC’s) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook. <sup>3</sup> (Eligibility Requirements).

<sup>3</sup> The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>



# INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW

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 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 NBTEM2 Net Billing Tariff Energy Metering Service for Eligible Customer-Generators.



**INTERCONNECTION AGREEMENT FOR NET BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

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 BILLING TARIFF ENERGY METERING (NBTEM2) AND RENEWABLE ELECTRICAL GENERATING FACILITY SIZED GREATER THAN 1,000 kW**

**ATTACHMENT JJK**

**Operating Requirements for Energy Storage Device(s)  
(when applicable)**

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.



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

**ATTACHMENT KK**

**NEMFC Customer Agreement Starting January 1, 2017 Until California Air Resources Board Emission Standard is Established (when applicable)**

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

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

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

Specifically, I will be responsible for the following:

Payment of all interconnection costs, including fees, studies, system upgrades, and any other pertinent interconnection costs.

Payment of the following nonbypassable charges on all departed load served by the fuel cell installed at my premises including but not limited to,

Public Purpose Program Charges;

Nuclear Decommissioning;

Department of Water Resources Bond Charges; and

Competition Transition Charge;

Other charges that the CPUC determines are to be charged on departed load and for which there is no exception for fuel cells pursuant to Schedule E-DCG.

I understand that I may be required to take service on standby tariff pursuant to Schedule S and pursuant to PU Code Section 2827.10(f)(2)(A).

I further understand that I will not be eligible for Rate Schedule NEMFC and will no longer receive any credit for any exports to the grid.



**INTERCONNECTION AGREEMENT FOR NET  
BILLING TARIFF ENERGY METERING (NBTEM2)  
AND RENEWABLE ELECTRICAL GENERATING  
FACILITY SIZED GREATER THAN 1,000 kW**

---

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

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

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

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

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



# NET ENERGY METERING AND NET BILLING TARIFF APPLICATION ADDENDUM FOR CONSUMER PROTECTION

Pursuant to California Public Utilities Commission (“CPUC”) Decision 21-06-026, PG&E has been directed to collect certain information as part of the ~~net-NetET Eenergy Mmetering and NetET Billing Tariff~~ interconnection application process.

## **NEMEXP/NEM2EXP/NBT-EXP and NEMMT/NEM2MT/NBT-MT Applicants Using the “YourProjects” Portal**

If you are a residential solar applicant who applied for the Expanded NEM (NEMEXP or NEM2EXP) or NEM Multiple Tariffs (NEMMT or NEM2MT) programs, or applied for Expanded NBT (NBT-EXP) or NBT Multiple Tariffs (NBT-MT), please fill out this form and upload it in the document uploads section marked “Consumer Protection NEM/NEM2/NBT Addendum.”

### Criteria

Please review PG&E’s [SOLAR NEM/NEM2/NBT CONSUMER PROTECTION REQUIREMENTS](#) to confirm whether this applies to you.

The following are *exempt* from these Consumer Protection requirements:

- Self-installers
- Non-residential
- LNEM load aggregation (NEMA/NEM2A) if all meters are non-residential
- Existing solar customers ONLY adding battery storage
- Residential solar interconnection applicants for new home construction, multi-family buildings, or for solar thermal systems
- Existing residential single-family-home applicants with a contract to install solar signed on or before September 29, 2019.

NOTE: If you do not meet the criteria outlined above, the Consumer Protection documents are mandatory.

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

**Customer and Generating Facility Information** (\*as it appears on the PG&E bill): (to associate this addendum to your application)

Account Holder Name* (Individual or Company)		Electric Service Agreement ID *	Meter Number*	
Service Address*		City*	State	Zip*
Customer Phone Number		Email		

### Part II – Signature

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

Customer Signature \_\_\_\_\_

Customer Name \_\_\_\_\_

**Please complete this agreement in its entirety**

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

The Privacy Policy is available at [pge.com/privacy](http://pge.com/privacy).  
Automated Document, Preliminary Statement, Part A.

# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net ~~Billing Tariff~~ ~~Energy Metering~~ (NBTEM2) Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification For New Residential Construction



**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 NBTEM2.
  - 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 NBTEM2 program.

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

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

Standard NBTEM2 Agreement Type:  Single Account  ~~Multiple Aggregated Accounts~~

~~Note: Net Billing Tariff Energy Metering Aggregation 2 (NBTEM2A) 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.~~

Project Number\* \_\_\_\_\_

Service Address\* \_\_\_\_\_ City\* \_\_\_\_\_ State CA Zip\* \_\_\_\_\_

Customer Phone Number \_\_\_\_\_ Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record) \_\_\_\_\_

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

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

Company Name \_\_\_\_\_ Contact Person \_\_\_\_\_

Contact Phone Number \_\_\_\_\_ Email \_\_\_\_\_

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

**Please complete this agreement in its entirety**

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

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less with Energy**  
**Storage of 10 Kilowatts Or Less or Energy Storage**  
**with Power Control System Certification**  
**For New Residential Construction**



**Part II – NBTEM2 Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the associated Interconnection Request.

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

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

~~The Generating Facility should be sized such that its total annual output in kWh is primarily used to offset the customer's own annual electrical requirements. The NBT Customer is allowed to oversize their Generating Facility by executing the NBT Oversized Generating Facility Attestation in Part IV, section G.~~

~~NBT systems should be sized, such that the total annual output in kWh of the generator is primarily used to offset the customer's own annual electrical requirements. The customer is allowed to oversize for future load (i.e., electric vehicle, or other electrical appliances to support electrification) by executing the NBT Oversized Generating Facility Attestation. All NBT customers must take service on a Time of Use rate schedule. There may be limitations on which TOU rate schedule a residential customer is allowed to be on. Please refer to the NBT tariff for more detail information. NEM2 systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. All NEM2 customers must take service on a Time of Use rate schedule and sizing your system to offset 80%–85% of your average electricity usage could be an effective way to minimize your electricity bill<sup>^</sup>. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on [www.pge.com](http://www.pge.com) on the page titled "[Access, download, or share usage data.](#)"~~

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

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net ~~Billing Tariff~~ Energy Metering (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
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**For New Residential Construction**



**B. Generator System Sizing**

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

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

Generator System Type:             Solar                             Wind                             Both

**Estimated Annual Production:**

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

**Estimated Annual Energy Usage:**

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

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

**Net Generation:**

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

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

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

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

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

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

**Please complete this agreement in its entirety**

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less with Energy**  
**Storage of 10 Kilowatts Or Less or Energy Storage**  
**with Power Control System Certification**  
**For New Residential Construction**



If not, please provide:

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

**Part III – Rate Selection**

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

**Otherwise Applicable Rate Schedule (OAS) for NBT Account:** ~~Select one rate from the category applicable to you. All NBT customers must take service on a Time of Use rate schedule. There may be limitations on the which TOU rates schedule a available to residential customers enrolling on the NBT is allowed to be on. Please refer to the NBT tariff for more detailed information. Please make sure the rate you selected is applicable to the NBT tariff.~~ **NEM2 Account:** ~~Select one rate from the category applicable to you. NEM2 residential customers must be an applicable time-of-use rate<sup>F</sup> schedule.~~ If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

Stay on existing rate \_\_\_\_\_

Requested new rate \_\_\_\_\_

**Part IV – Interconnection Agreement Provisions**

**A. Applicability**

This Agreement applies to Electric Schedule NBTEM2 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,

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

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
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**with Power Control System Certification**  
**For New Residential Construction**



where applicable, PG&E's Electric Rule 21, and other rules approved by the CPUC regarding safety and reliability. A Customer with a solar or wind-turbine electric generating system, or a hybrid system of both, that meets

those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

**D. Safe Operation of your Generating Facility**

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

**E. AC Disconnect Switch**

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

**F. Rate**

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

**NEM2 Billing**

~~The Customer's meter separately measures exports and imports. The meter is read monthly and an amount is calculated based on the net energy (kWh) and total energy(kWh) exports recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from the energy supplier in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from the energy supplier than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement. Additionally, the Customer will be billed for non-bypassable charges on all imports from the grid, as describe in Schedule NEM2 Special Condition 2. After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM2 billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).~~

**~~Net Surplus Compensation (NSC)~~**

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

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net ~~Billing Tariff~~Energy Metering (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less with Energy**  
**Storage of 10 Kilowatts Or Less or Energy Storage**  
**with Power Control System Certification**  
**For New Residential Construction**



~~[www.pge.com/nscoptout](http://www.pge.com/nscoptout) to complete Form 79-1130. Participants in NEM2A, please see provisions in NEM2 Load Aggregation Appendix (Form 79-1153).~~

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
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**G. NBT Oversized Generating Facility Attestation**

The total annual output of the Generating Facility should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).

Customer is allowed to oversize their Generating Facility. To do so, Customer must check the box below indicating that they have read and attest to the four bullet points listed:

I (Customer) attest as follows:

- My Generating Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);
- The Generating Facility's estimated annual production in kWh is no larger than: (a) 150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). OR, My electrical usage has recently increased and the Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.
- I expect to increase my electrical usage to correspond with the size of my Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).
- I understand that PG&E reserves the right to further validate that my Generating Facility is sized in accordance with the NBT.

**G.H. 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.

**H.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.

**H.J. 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.

**Please complete this agreement in its entirety**

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
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**J.K. 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 NBTEM2.

**K.L. Meter Access**

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

**M. Stale Agreements**

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

**L.N. Rule 21 Certified/Non-Certified Interconnection Equipment**

~~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 NBTEM2.~~

**CEC Listed Rule 21 Certified/Non-Certified Interconnection Equipment**

~~In order to promote the safety and reliability of the Customer's Generating Facility, the Customer applicant certifies that as a part of its request for NBT, that all major solar system components shall comply with Sections L.2-L.4 and Section L.7 of PG&E Electric Rule No. 21 (Rule 21). 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.~~

**M.O. Warranties or Service Agreements**

Applicant certifies as a part of its interconnection request for NBTEM2 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.

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

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

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Customer has submitted the interconnection application prior to September 9, 2017,
- (c) the Customer provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application<sup>6</sup> no later than March 31, 2018, or
- (d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

**O.Q. Power Control System Certification**

By signing below, customer confirms that Energy Storage over 10 kW has received UL 1741 CRD for Power Control Systems (PCS) certification that will comply with either No Grid Charge or No Storage Export as defined in Schedule NBTEM2.

**R. Building Code-Required Solar Installations**

<sup>6</sup> A complete application consists all of the following without deficiencies:

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

**Please complete this agreement in its entirety**

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
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Customers who are required to add solar in accordance with building code (Title 24) requirements are not eligible to receive the additional export credit (ACC Plus). Customer acknowledges that information relating to building code-required solar installations collected in form 79-1151B-03 may impact eligibility for the additional export credits (ACC Plus).

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**Part V – Signature**

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ THE FULLY POPULATED DOCUMENT BEFORE SIGNING – THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY. THIS FORM MUST BE SIGNED BY THE EXISTING PG&E CUSTOMER LISTED IN PART I.**

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

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

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section C, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.
- 3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 2)5) I understand that the NBT allows for oversizing, and I have completed and reviewed Part IV, section G, the NBT Oversized Generating Facility Attestation, if my Generating Facility is oversized.
- 3)6) 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)

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\_\_\_\_\_  
(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 NBTEM2 requirements.

# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net ~~Billing Tariff~~ ~~Energy Metering~~ (NBTEM2) Interconnection

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



**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 NBTEM2.
  - ~~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 NBTEM2 program.

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

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

Standard Net Billing Tariff (NBTEM2) Agreement Type:     Single Account     ~~Multiple Aggregated Accounts~~

~~Note: Net Billing Tariff Energy Metering Aggregation 2 (NBTEM2A) 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.~~

Project Number\* \_\_\_\_\_

Service Address\* \_\_\_\_\_ City\* \_\_\_\_\_ State CA Zip\* \_\_\_\_\_

Customer Phone Number \_\_\_\_\_ Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record) \_\_\_\_\_

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

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

Company Name \_\_\_\_\_ Contact Person \_\_\_\_\_

Contact Phone Number \_\_\_\_\_ Email \_\_\_\_\_

**By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit Application Form 79-1151B-032 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 – NBTEM2 Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the accompanying Application Form 79-1151B-032.

# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less For New Residential Construction



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

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) Application Form 79-1151B-032, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.

The Generating Facility should be sized such that its total annual output in kWh is primarily used to offset the customer's own annual electrical requirements. The NBT Customer is allowed to oversize their Generating Facility by executing the NBT Oversized Generating Facility Attestation in Part IV, section G.

~~NBT systems should be sized, such that the total annual output in kWh of the generator is primarily used to offset the customer's own annual electrical requirements. The customer is allowed to oversize for future load (i.e., electric vehicle, or other electrical appliances to support electrification) by executing the NBT Oversized Generating Facility Attestation. All NBT customers must take service on a Time of Use rate schedule. There may be limitations on which TOU rate schedule a residential customer is allowed to be on. Please refer to the NBT tariff for more detail information. NEM2 systems should be sized with an estimated annual production no larger than 100% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. All NEM2 customers must take service on a Time-of-Use rate schedule and sizing your system to offset 80%-85% of your average electricity usage could be an effective way to minimize your electricity bill<sup>A</sup>. Of course, individual circumstances may vary. Customers can obtain their usage data by following the instructions on www.pge.com on the page titled "[Access, download, or share usage data](#)."~~

### B. Generator System Sizing

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

Generator System Type:  Solar  Wind  Both

#### Estimated Annual Production:

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

#### Estimated Annual Energy Usage:

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

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

#### Net Generation:

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

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

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

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

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

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.

# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2) Interconnection

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



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

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

**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-NBT Account:** ~~Select one rate from the category applicable to you. All NBT customers must take service on a Time of Use rate schedule. There may be limitations on the which TOU rates schedule a available to residential customers enrolling on the NBT is allowed to be on. Please refer to the NBT tariff for more detailed information. Please make sure the rate you selected is applicable to the NBT tariff.~~ **Account:** ~~Select one rate from the category applicable to you. NEM2 residential customers must be an applicable time-of-use rate<sup>F</sup> schedule.~~ If you are currently on a rate that is no longer open to new customers and are opting to move to a different rate, by signing this Agreement and Customer Authorization you are acknowledging that you are leaving the current rate and will not be able to return to this rate in the future. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

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

**Part IV – Interconnection Agreement Provisions**

**A. Applicability**

This Agreement applies to Electric Schedule NBTEM2 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.

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

**Please complete this agreement in its entirety**

# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Billing Tariff ~~Energy Metering~~ (NBTEM2)

### Interconnection

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

### For New Residential Construction



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

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

#### E. AC Disconnect Switch

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

#### F. Rate

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

#### G. ~~NEM2 Billing~~

~~—The Customer's meter separately measures exports and imports.~~

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

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

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

#### H. ~~Net Surplus Compensation (NSC)~~

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

#### G. NBT Oversized Generating Facility Attestation ~~Limitation of Liability~~

The total annual output of the Generating Facility should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).

Customer is allowed to oversize their Generating Facility. To do so, Customer must check the box below indicating that they have read and attest to the four bullet points listed:

q | (Customer) attest as follows:

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- My Generating Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);
- The Generating Facility's estimated annual production in kWh is no larger than: (a) 150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). OR, My electrical usage has recently increased and the Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.
- I expect to increase my electrical usage to correspond with the size of my Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).
- I understand that PG&E reserves the right to further validate that my Generating Facility is sized in accordance with the NBT.

**I.H. Limitation of Liability**

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

**J.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.

**K.J. Governing Authority**

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

**L.K. 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 NBTEM2.

**M.L. Meter Access**

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

**N.M. Stale Agreements**

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NBTEM2.

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less**  
**For New Residential Construction**



**O. CEC Listed Rule 21 Certified/Non-Certified Interconnection Equipment**

~~In order to promote the safety and reliability of the customer's Generating Facility, the applicant certifies that as a part of its request for NBT, that all major solar system components shall comply with Sections L.2-L.4 and Section L.7 of Electric Rule No. 21 (Rule 21). 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.~~

**N. Warranties or Service Agreements Rule 21 Certified/Non-Certified Interconnection Equipment**

~~In order to promote the safety and reliability of Customer's Generating Facility, the Customer certifies as a part of its request for NBT, that all major solar system components comply with Sections L.2-L.4 and Section L.7 of PG&E Electric Rule 21 (Rule 21).~~

**P.O. Warranties or Service Agreements**

Customer certifies as a part of its interconnection request for NBTEM2 that:

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

**Q.P. 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/programs/solar-equipment-lists>.)

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

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

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

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

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

**Please complete this agreement in its entirety**

**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less**  
**For New Residential Construction**



(d) the Customer provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

(i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or

(ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

**Q: Building Code-Required Solar Installations**

Customers who are required to add solar in accordance with building code (Title 24) requirements are not eligible to receive the additional export credit (ACC Plus). Customer acknowledges that information relating to building code-required solar installations collected in form 79-1151B-03 may impact eligibility for the additional export credits (ACC Plus).

**Part V – Signature**

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

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

Under Pacific Gas and Electric Company’s (PG&E’s) privacy policies, which can be found at [\[http://www.pge.com/about/company/privacy/customer\]](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.
- 2)3) I authorize PG&E to release any and all information contained in this application, and addendum if applicable, for interconnection to the State Entities identified in this Part V without further notification or consent.
- 4) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 3)5) I understand that the NBT allows for oversizing, and I have completed and reviewed Part IV, section G, the NBT Oversized Generating Facility Attestation, if my Generating Facility is oversized.
- 4)6) 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.

**Please complete this agreement in its entirety**

Automated Document, Preliminary Statement, Part A.



**AGREEMENT AND CUSTOMER AUTHORIZATION**  
**Net Billing Tariff ~~Energy Metering~~ (NBTEM2)**  
**Interconnection**  
**For Solar And/Or Wind Electric Generating**  
**Facilities Of 30 Kilowatts Or Less**  
**For New Residential Construction**

\_\_\_\_\_  
(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 NBTEM2 requirements.



INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2~~  
(~~NBTEM2~~)  
OF A RENEWABLE ELECTRIC GENERATING  
FACILITY OF 1,000 KW OR LESS, EXCEPT  
~~NBTEM2~~ SOLAR OR WIND FACILITIES OF 30 KW  
OR LESS, ~~AND VIRTUAL NET ENERGY~~  
~~METERING (NEM2V) OF A RENEWABLE~~  
~~ELECTRIC GENERATING FACILITY OF 1,000 KW~~  
~~OR LESS~~

This ~~INTERCONNECTION AGREEMENT FOR NET Billing~~~~BILLING TARIFF~~~~Tariff~~~~ENERGY METERING 2 (NBTEM)~~ OF A RENEWABLE ELECTRIC GENERATING FACILITY OF 1,000 KW OR LESS, EXCEPT ~~NBTEM2~~ SOLAR OR WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL NET ENERGY METERING (NEM2V) OF A RENEWABLE ELECTRIC GENERATING FACILITY OF 1,000 KW OR LESS~~ (Agreement) <sup>1</sup> is entered into by and between \_\_\_\_\_ (Customer-Generator), and Pacific Gas and Electric Company (PG&E), a California Corporation. Customer-Generator and PG&E are sometimes also referred to in this Agreement jointly as “Parties” or individually as “Party.” In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

**1. SCOPE AND PURPOSE**

1.1 This Agreement provides for Customer-Generator to interconnect and operate a Renewable Electrical Generation Facility as defined in Schedule ~~NBTEM2~~ (if this is a ~~NBTEM2~~ Solar or Wind Generating Facility less than 30 kW, please use form 79-1151-032) (Generating Facility) in parallel with PG&E’s Electric System to serve the electrical loads connected to the electric service account that PG&E uses to interconnect Customer-Generator’s Generating Facility. ~~The Generating Facility should be sized such that its total annual output in kwh is primarily used to offset the customer’s own annual electrical requirements. The NBT customer is allowed to oversize their Generating Facility by executing the NBT Oversized Generating Facility Attestation in Appendix D of this document. 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 NBTEM2 (NEM2), Parties enter into this Agreement.~~ This Agreement applies to the Customer-Generator’s Generating Facilities identified below with the specified characteristics and generating capacity, and does not allow interconnection or operation of facilities different than those described.—

<sup>1</sup> Additional forms are available on PG&E’s website at <http://www.pge.com/gen>).

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

INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2~~  
(~~NBTEM2~~)



Pacific Gas and  
Electric Company<sup>®</sup>

OF A RENEWABLE ELECTRIC GENERATING  
FACILITY OF 1,000 KW OR LESS, EXCEPT  
~~NBTEM2~~ SOLAR OR WIND FACILITIES OF 30 KW  
OR LESS, ~~AND VIRTUAL NET ENERGY  
METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW  
OR LESS~~

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**2. SUMMARY AND DESCRIPTION OF CUSTOMER-GENERATOR'S GENERATING FACILITY  
AND DESIGNATION OF OTHERWISE-APPLICABLE RATE SCHEDULE**

- 2.1 A description of the Generating Facility, including a summary of its significant components, and a single-line diagram showing the general arrangement of how Customer-Generator's Generating Facility and loads are interconnected with PG&E's Electric System, is attached to and made a part of this Agreement. (This description is supplied by Customer-Generator as Appendix A).
- 2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by PG&E).



INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2 (NBTEM2)~~  
OF A RENEWABLE ELECTRIC GENERATING FACILITY  
OF 1,000 KW OR LESS, EXCEPT ~~NBTEM2~~ SOLAR OR  
WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

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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 Electric System:

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

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

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

2.5 The Gross Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW.

2.6 The Net Nameplate Rating of the Generating Facility: \_\_\_\_\_ kW.

2.7 The expected annual energy production of the Generating Facility is \_\_\_\_\_ kWh.

2.8 Customer-Generator's otherwise-applicable rate schedule as of the execution of this  
Agreement is \_\_\_\_\_. Customer-Generator accepts that there may be  
limitations on otherwise-applicable rate schedule under the NBT tariff which would  
require the customer to change their otherwise applicable rate schedule.

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 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](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~~ provides evidence of having applied for an electrical  
permit for the Generating Facility installation that is dated prior to September 9,



INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2 (NBTEM2)~~  
OF A RENEWABLE ELECTRIC GENERATING FACILITY  
OF 1,000 KW OR LESS, EXCEPT ~~NBTEM2~~ SOLAR OR  
WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

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2017 and submitted a complete interconnection application<sup>2</sup> no later than March 31, 2018, or

(d) the Customer-Generator provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

### 3. DOCUMENTS INCLUDED AND DEFINED TERMS

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

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

Appendix B A Copy of PG&E's Agreement for Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527), if applicable (Formed by the Parties).

Appendix C Schedule ~~NEM2 / NEM2VNBT~~ 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 (if applicable).~~

~~Appendix D — NEM2 Load Aggregation Customer-Generator Declaration Warranting NEM2 Aggregation Is Located On Same or Adjacent or Contiguous Property to Generator Parcel (if applicable)~~

~~Appendix E — Customer-Generator Affidavit Warranting That NEM2V Arrangement Is Sized to Load (if applicable)~~

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<sup>2</sup> A complete application consists all of the following without deficiencies:

1. A completed Interconnection Application including all supporting documents and required payments, (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 ~~BILLING TARIFF ENERGY METERING 2~~ (NBTEM2)  
OF A RENEWABLE ELECTRIC GENERATING FACILITY  
OF 1,000 KW OR LESS, EXCEPT NBTEM2 SOLAR OR  
WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

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Appendix ~~DF~~ ~~NEMV, NEM2V, Storage~~ NBT Oversized Generating Facility Attestation (when ~~if~~ applicable)

Appendix ~~EG~~ Operating Requirements for Energy Storage Device(s) (when applicable)

In addition, PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule ~~NBTEM2~~ (if applicable), ~~Schedule NEM2V (if applicable)~~ and Customer-Generator's otherwise-applicable rate schedule, available at PG&E's website at [www.pge.com](http://www.pge.com) or by request, are specifically incorporated herein and made part of this Agreement.

3.2 When initially capitalized, whether in the singular or in the plural, the terms used herein shall have the meanings assigned to them either in this Agreement or in PG&E's Electric Rule 21, Section C.

#### 4. CUSTOMER BILLING AND PAYMENT

Customer-Generator initially selected Pacific Gas and Electric Company's electric rate schedule referenced in Section 2.8 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 NBT.

#### 5. TERM AND TERMINATION

~~45.1~~ This Agreement shall become effective as of the last date entered in Section ~~220~~ 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.
- (c) At 12:01 A.M. on the 61<sup>st</sup> day after Customer-Generator or PG&E provides written Notice pursuant to Section ~~120~~ below to the other Party of Customer-Generator's or PG&E's intent to terminate this Agreement.

~~45.2~~ Customer-Generator may elect to terminate this Agreement pursuant to the terms of Section ~~45.1~~(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section ~~45.1~~(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,



INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2~~ (NBTEM2)  
OF A RENEWABLE ELECTRIC GENERATING FACILITY  
OF 1,000 KW OR LESS, EXCEPT NBTEM2 SOLAR OR  
WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

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- (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 65.

54.3 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.

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

**65. GENERATING FACILITY REQUIREMENTS**

65.1 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.

65.2 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 56.1, 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.

65.3 Customer-Generator shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided no later than thirty (30) business days following PG&E's receipt of: (1) a completed *Rule 21 Generator Interconnection Application* (Form 79-1174-03-02), including all supporting documents and payments as described in the Application; (2) a signed and completed *INTERCONNECTION AGREEMENT FOR A NET BILLING TARIFF ENERGY METERING (NBTEM2/NBTEM2V) OF A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1,000 KW OR LESS, EXCEPT SOLAR OR WIND; (Form 79-XXXX-02);* and (3) a copy of the Customer-Generator's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.

65.4 In order to promote the safety and reliability of the customer Generating Facility, the



INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2 (NBTEM2)~~  
OF A RENEWABLE ELECTRIC GENERATING FACILITY  
OF 1,000 KW OR LESS, EXCEPT ~~NBTEM2~~ SOLAR OR  
WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

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~~applicant Customer-Generator certifies that as a part of its request for each interconnection request for NBTEM2, that all major solar system components comply with Sections L.2-L.4 and Section L.7 of PG&E Electric Rule 21 (Rule 21) 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.~~

- ~~65.5 Applicant Customer Generator certifies as a part of each interconnection request for NBTEM2 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.~~
- ~~65.6 Customers on this tariff must pay for the interconnection of their Generation Facilities as provided in Electric Rule 21, pursuant to Decision 16-01-044.~~

**76. INTERCONNECTION FACILITIES**

- 76.1 Customer-Generator and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Electric System, personnel, and other persons from damage or injury, which may be caused by the operation of Customer-Generator's Generating Facility.
- 76.2 Customer-Generator shall be solely responsible for the costs, design, purchase, construction, permitting, operation, and maintenance of the Interconnection Facilities that Customer-Generator owns.
- 76.3 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.

**87. 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**



INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2 (NBTEM2)~~  
OF A RENEWABLE ELECTRIC GENERATING FACILITY  
OF 1,000 KW OR LESS, EXCEPT ~~NBTEM2~~ SOLAR OR  
WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

Customer-Generator Facility is required to comply with standards and rules set forth in Section ~~65~~ and provide the following for insurance policies in place.

~~(a) For NEM2V Customer Generators only, to the extent that Customer Generator has currently in force property insurance and commercial general liability or personal liability insurance, Customer Generator 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 Customer Generator meets the requirements of this Section 8.1(a), Customer Generator 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.~~

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 ~~56~~, the following insurance shall apply:

Customer-Generator shall procure and maintain a commercial general liability insurance policy at least as broad as the Insurance Services Office (ISO) commercial general liability coverage "occurrence" form; or, if Customer-Generator is an individual, then liability coverage with respect to premises and use at least as broad as the ISO homeowners' or personal liability Insurance occurrence policy form, or substitute, providing equivalent coverage no less than the following limits, based on generator size:

- (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



INTERCONNECTION AGREEMENT FOR  
NET ~~BILLING TARIFF ENERGY METERING 2 (NBTEM2)~~  
OF A RENEWABLE ELECTRIC GENERATING FACILITY  
OF 1,000 KW OR LESS, EXCEPT ~~NBTEM2~~ SOLAR OR  
WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

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- (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 108.1 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 120.1, the requirements of Section 810.1 may be waived.

9.3 Customer-Generator may self-insure with approval from PG&E. Evidence of an acceptable plan to self-insure, at least thirty (30) calendar days' prior to operations shall be submitted. Customer-Generators such as state agencies that self-insure under this section are exempt from Section 810.1.

If Customer-Generator ceases to self-insure to the level required hereunder, or if Customer-Generator is unable to provide continuing evidence of Customer-Generator's ability to self-insure, Customer-Generator agrees to immediately obtain the coverage required under agreement.

9.4 All required certificates, endorsements or letters of self-insurance shall be issued and submitted via email or fax to the following:

Pacific Gas and Electric Company  
Attn: Insurance Department  
77 Beale St.  
San Francisco, CA 94105

**109. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS**

109.1 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



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NET ~~BILLING TARIFF ENERGY METERING 2 (NBTEM2)~~  
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WIND FACILITIES OF 30 KW OR LESS, ~~AND VIRTUAL  
NET ENERGY METERING (NEM2V) OF A RENEWABLE  
ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~**

utility would have been protected had Customer-Generator complied with all such insurance provisions. The inclusion of this Section ~~119.1~~ is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.

~~109.2~~ The provisions of this Section ~~119~~ 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.

**~~110.~~ NOTICES**

~~110.1~~ Any written notice, demand, or request required or authorized in connection with this Agreement (Notice) shall be deemed properly given if delivered in person or sent by first class mail, postage prepaid, to the person specified below:

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

If to Customer-Generator:

Customer-Generator Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_  
FAX:( \_\_\_\_\_ ) \_\_\_\_\_

~~110.2~~ A Party may change its address for Notices at any time by providing the other Party notice of the change in accordance with Section ~~102.1~~.

~~110.3~~ 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.

**~~124.~~ REVIEW OF RECORDS AND DATA**

~~124.1~~ 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.

~~124.2~~ 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



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ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

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time to time pursuant to the CEC's rules and regulations.

**132. 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.

**143. 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.

**154. DISPUTES**

**154.1 Dispute Resolution**

Any dispute arising between the Parties regarding a Party's performance of its obligations under this Agreement or requirements related to the interconnection of the Generating Facility shall be resolved according to the procedures in Rule 21.

**165. REVIEW OF RECORDS AND DATA**

**165.1 Applicable Tax Laws and Regulation**

The Parties agree to follow all applicable tax laws and regulations, consistent with CPUC policy and Internal Revenue Service requirements.

**165.2 Maintenance of Tax Status**

Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this Agreement is intended to adversely affect the Distribution Provider's tax exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds

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

**176.1** 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.

**176.2** 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.

**176.3** 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



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ELECTRIC GENERATING FACILITY OF 1,000 KW OR  
LESS~~

applicable to the electric service provided by PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.

**176.4** 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.

**187. CRD POWER CONTROL SYSTEM CERTIFICATION**

When applicable, Customer-Generator confirms that the Renewable Electrical Generation Facility including Energy Storage over 10 kW that has received UL 1741 CRD for Power Control Systems (PCS) certification will comply with either No Grid Charge or No Storage Export as defined in Schedule ~~NBTEM2~~.

**1948. AMENDMENT AND MODIFICATION**

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

**2049. 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.

**219. SIGNATURES**

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

<i>(Customer-Generator’s Name)</i>	<b>PACIFIC GAS AND ELECTRIC COMPANY</b>
<i>(Signature)</i>	<i>(Signature)</i>
<i>(Print Name)</i>	<i>(Print Name)</i>
<i>(Title)</i>	<i>(Title)</i>
<i>(Date)</i>	<i>(Date)</i>



INTERCONNECTION AGREEMENT FOR  
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APPENDIX A

DESCRIPTION OF GENERATING FACILITY  
AND SINGLE-LINE DIAGRAM

(Provided by Customer-Generator)



INTERCONNECTION AGREEMENT FOR  
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LESS~~

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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)



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LESS~~

APPENDIX C

(NOT APPLICABLE TO SOLAR AND/OR WIND)

SCHEDULE NBTEM2 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 is required every time a new NBTEM2 or ~~NBTEM2V~~ interconnection agreement for a  
Renewable Electrical Generation Facility is executed or whenever there is a change in ownership of  
the Generating Facility)

Check Type of Renewable Electrical Generation Facility:

<input type="checkbox"/> biomass	<input type="checkbox"/> geothermal	<input type="checkbox"/> municipal solid waste
<input type="checkbox"/> solar thermal	<input type="checkbox"/> fuel cell	<input type="checkbox"/> landfill gas
<input type="checkbox"/> small hydroelectric generation	<input type="checkbox"/> ocean wave	<input type="checkbox"/> digester gas
<input type="checkbox"/> ocean thermal	<input type="checkbox"/> tidal current	

NBTEM2 / ~~NBTEM2V~~ Customer-Generator (Customer) declares that

- (1) it meets the requirements to be an “Eligible Customer-Generator” and its Generating Facility.
- (2) (a) meets the requirements of an “Renewable Electrical Generation Facility”, ~~as defined in Section 2827(b)(5) of the California Public Utilities Code~~ and (b) satisfies the definitions of the renewable resource for the Renewable Electrical Generation Facility in the latest version of the California Energy Commission’s (CEC’s) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook.<sup>3</sup> (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):

<sup>3</sup> The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>



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LESS~~

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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 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 120 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 120 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-Net ET Billing Tariff Energy Metering~~ provisions of PG&E's Schedule NBTEM2 or NBTEM2V, ~~Net Energy Metering~~ ~~et~~ Service for Eligible Customer-Generators.



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LESS~~

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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 ~~BILLING TARIFF ENERGY METERING 2 (NBTEM2)~~  
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LESS~~

APPENDIX D  
~~NEM2 LOAD AGGREGATION APPENDIX~~  
(If Applicable)

~~Customer-Generator Declaration Warranting NEM2 Aggregation Is  
Located on Same or Adjacent or Contiguous Property to Generator  
Parcel~~

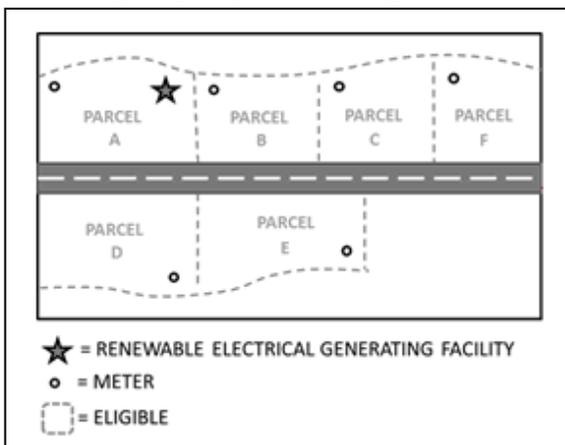
In accordance with Schedule NEM2, I, Customer-Generator represent and warrant under penalty of perjury that:

1) ~~The total annual output in kWh of the generator is less than or equal to 100% of the annual aggregated electrical load in kWh of the meters within the arrangement, including the load on the generating account itself (before being offset by the generator), and including any estimated future additional load; and 2) Each of the aggregated account meters associated with this NEM2-generator account are located either:-~~

(i) ~~on the property where the renewable electrical generation facility is located, or-~~

(ii) ~~are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an~~

~~unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator.~~



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

3) ~~PG&E reserves the right to request a parcel map to confirm the property meets the requirements of 2) above; and~~

4) ~~Customer-Generator agrees to notify PG&E if there is any change of status that makes any of the participating meters ineligible for meter aggregation to ensure that only eligible meters are participating; PG&E will require an updated Appendix and Declaration form; and~~



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LESS~~

~~5) Upon request by PG&E, I agree to provide documentation that all aggregated meters meet the requirements of Rate Schedule NEM2 Special Condition 6 including but not limited to parcel maps and ownership records.~~

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

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

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

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



INTERCONNECTION AGREEMENT FOR  
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 LESS~~

APPENDIX E  
 (If Applicable)  
~~CUSTOMER-GENERATOR AFFIDAVIT WARRANTING THAT  
 NBTEM2V ARRANGEMENT IS SIZED TO LOAD~~

In accordance with Schedule ~~NBTEM2V~~, I, Customer-Generator warrant that:-

- 1) ~~the Generator Account associated with this NBTEM2V agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts included in this NBTEM2V Arrangement, and-~~
- 2) ~~the Eligible Allocation Percentage established for each Benefitting Account is sized to offset no more than part or all of the annual usage (kWh) requirement for that specific Benefitting Account.~~

Service Address of Generator: \_\_\_\_\_  
 \_\_\_\_\_

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

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

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

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

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



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 LESS~~

APPENDIX ~~D~~F  
 (If ~~When~~ Applicable)  
NEMV, NEM2V Storage ~~NBT~~ Oversized Generating Facility

~~Applicants adding storage pursuant to Schedules NEMV, NEM2V, NBT under the Special Condition for storage must include proper documentation per PG&E's Distribution Interconnection Handbook (DIH).~~

The total annual output of the Generating Facility should primarily be used to offset the customer's own annual electrical requirements (based on the customer's most recent 12 months of usage).

Customer is allowed to oversize their Generating Facility provided Customer executes this form attesting as follows:

- My Generation Facility is oversized to meet expected increased future electrical usage (i.e., increased usage resulting from an electric vehicle or other electrical appliances to support electrification);
- The Generating Facility's estimated annual production in kWh is no larger than: (a) 150 percent of my most recent 12 months of total usage; or (b) 150 percent of my estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only). OR, My electrical usage has recently increased and the Generating Facility's estimated annual production is no larger than 150 percent of my current electrical usage projected over 12 months.
- I expect to increase my electrical usage to correspond with the size of my Generating Facility within the next year (12 months after receiving Permission to Operate (PTO)).
- I understand that PG&E reserves the right to further validate that my Generating Facility is sized in accordance with the Net Billing Tariff (NBT).

By signing below, I declare under penalty of perjury under the laws of the State of California that the information provided in this Attestation is true and correct.

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

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

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

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



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LESS~~

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*Title*

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INTERCONNECTION AGREEMENT FOR  
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 LESS~~

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APPENDIX EG

Operating Requirements for Energy Storage Device(s)  
 (when applicable)

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.



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LESS~~

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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.

**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.  
Braun Blaising Smith Wynne, P.C.  
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  
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  
Downey Brand LLP  
Dish Wireless L.L.C.

East Bay Community Energy Ellison  
Schneider & Harris LLP  
Engineers and Scientists of California

GenOn Energy, Inc.  
Green Power Institute  
Hanna & Morton  
ICF

iCommLaw  
International Power Technology  
Intertie

Intestate Gas Services, Inc.

Johnston, Kevin  
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  
McClintock IP  
McKenzie & Associates

Modesto Irrigation District  
NLine Energy, Inc.  
NRG Solar

OnGrid Solar  
Pacific Gas and Electric Company  
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority  
Regulatory & Cogeneration Service, Inc.

Resource Innovations

SCD Energy Solutions  
San Diego Gas & Electric Company

SPURR  
San Francisco Water Power and Sewer  
Sempra Utilities

Sierra Telephone Company, Inc.  
Southern California Edison Company  
Southern California Gas Company  
Spark Energy  
Sun Light & Power  
Sunshine Design  
Stoel Rives LLP

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