Pacific Gas and Electric Company

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July 6, 2021

Advice 6249-E
(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: **Modified Forms for Pacific Gas and Electric Company Plans Implementation the Notification-only Non-export Storage Pilot Pursuant to the Rulemaking 17-07-007 Phase 1, Working Group 4 Decision 21-06-002 Ordering Paragraphs 20**

Purpose

The purpose of this Tier 2 advice letter is to submit modified forms for Pacific Gas and Electric Company's (PG&E) implementation of the Notification-only Non-export Storage Pilot, pursuant to the California Public Utilities Commission ("CPUC", "Commission") Decision ("D.") 21-06-002[1] Ordering Paragraph ("OP") 20 and D. 19-03-013[2].

Background

Rulemaking 17-07-007

On July 13, 2017, the CPUC adopted Order Instituting Rulemaking (R.) 17-07-007 to consider refinements to Electric Tariff Rule 21 of Pacific Gas and Electric Company (PG&E), San Diego Gas & Electric Company (SDG&E), and Southern California Edison Company (SCE) (jointly, "Utilities") regarding the interconnection of distributed energy resources.[3]

As stated by the CPUC, the primary objective of this proceeding is to streamline the interconnection application process.[4]

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1 D. 21-06-002 - *Decision Addressing Remaining Phase I Issues* - Date of Issuance 6/4/2021

2 D.19-03-013 - *Decision Adopting Proposals from March 15, 2018 Working Group One Report* -Date of Issuance 4/5/2019, see pages 2 and 29

3 The Rule 21 tariff describes the interconnection, operating, and metering requirements for certain generating and storage facilities seeking to connect to the electric distribution system. Rule 21 provides customers access to the electric grid to install generating or storage facilities while protecting the safety and reliability of the distribution and transmission systems at the local and system levels. (R. 17-07-007 at p2.)

4 D. 21-06-002 p2.

Assigned Commissioner Ruling Scoping Memo
On October 2, 2017, the CPUC issued *Scoping Memo of Assigned Commissioner and Administrative Law Judge* (Scoping Memo), which established the initial scope, phases and schedule of the proceeding. The resolution of the various technical issues of the proceeding would be proposed and discussed at a series of working groups.[5]

This advice letter addresses issues pertaining to Working Group 4 and other remaining Phase 1 issues.

Amended Scoping Memo
Part way through. R.17-07-007 on November 16, 2018 *Assigned Commissioner's Amended Scoping Memo and Joint Administrative Law Judge Ruling* (Amended Scoping Memo) revised the scope and schedule in response to the *Motion of the California Solar & Storage Association to Update the Scope for the Proceeding and the Joint Motion of Southern California Edison Company, San Diego Gas & Electric Company and Pacific Gas and Electric Company to Revise Certain Deadlines*. With respect to WG4, the Amended Scoping Memo made the following modifications related to Issues F[6], 11[7] and 13.[8] This advice letter pertains to portions of Issue 11 not addressed in earlier working groups 2 and 3, and so relegated to WG4.[9]

Working Group 1
Working Group One and the Smart Inverter Working Group began meeting on October 16, 2017. Working Group One filed a Working Group One Final Report on March 15, 2018. This advice letter pertains to a proposal first raised in Working Group and discussed in the Working Group One Report.[10]

Working Group 4
Working Group Four ("WG 4") began meeting February 12, 2020 and subsequently held twelve meetings to address the issues identified. On August 13, 2020, the final Working Group Four Report[11] ("WG4 Report") was filed. The Administrative Law Judge held a workshop on October 16, 2020, to ask clarifying questions.

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5 The Smart Inverter Working Group ("SIWG") grew out of a collaboration between the Commission and the California Energy Commission in early 2013. The collaboration identified the development of advanced inverter functionality as an important strategy to mitigate the impact of high penetrations of distributed energy resources. [as explained in footnote 2 in D. 20-09-035]

6 Issue F is related to accounting for the ability of DERMS and aggregator commands to address flexibility

7 Issue 11 is related to the adoption of a modified notification-only approach for non-export systems

8 Issue 13 is related to distribution upgrade cost sharing among developers.

9 D. 21-06-002 p3

10 Working Group One Report see page 61 on "no notification" in Use Case 4 in the Working Group Proposals Addressing Modifications to Existing Facilities.

11 Working Group Four Report

D. 21-06-002
Based largely on the WG4 Report, on June 4, 2021, D. 21-06-002 was prepared and issued. D. 21-06-002 considers proposals recommended to resolve each of WG4's assigned issues as well as two other issues that were not included in Working Group Four. One of those other issues, Issue 11, involved the use of a notification-only approach for non-exporting storage projects notifications in lieu of an interconnection application. D. 21-06-022 Ordering Paragraphs one through 6 address the notification-only process. This advice letter submits modified forms associated with Rule 21 pursuant to OP 20.

This Advice Letter
Pursuant to D. 21-06-002, OP 20 requires:

> *20. No later than 30 days from the issuance of this decision, Pacific Gas and Electric Company, San Diego Gas & Electric Company and Southern California Edison Company shall each submit a Tier 2 Advice Letter modifying their Rule 21 tariffs consistent with this decision.*

[emphasis added]

This Tier 2 advice letter is being submitted pursuant to D. 21-06-002 OP20. While OP1.g provides the basis for this advice letter, the requirements contained in this advice letter are provided for in other parts of OP1, other ordering paragraphs and in the body of D. 21-06-002.

Proposed Revised Forms

The following forms for the Notification Only Non-Export Storage Pilot are modified from existing PG&E forms where possible (i.e., forms 1 and 3) and will be manually completed by applicants until such time as PG&E can incorporate them into its online application portals:

1. AGREEMENT AND CUSTOMER AUTHORIZATION Non-Export Generating Facility Sized 30 Kilowatts or Less (Form 79-1213)

2. NOTIFICATION-ONLY PILOT PROGRAM DEVELOPER ELIGIBILITY APPLICATION (Form 79-1214)

3. RULE 21 NON-EXPORT GENERATOR INTERCONNECTION NOTIFICATION (Form 79-1212)

Protests

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

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than July 26, 2021, which is 20 days after the date of this submittal. Protests must be submitted to:

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

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

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

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

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

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

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

Effective Date

Pursuant to General Order (GO) 96-B, Rule 5.2, and OP 20 of D.21-06-002, this advice letter is submitted with a Tier 2 designation. PG&E requests that this Tier 2 advice submittal become effective on regular notice, August 5, 2021, which is 30 calendar days after the date of submittal.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service lists for R.11-09-011 and R.17-07-007. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: http://www.pge.com/tariffs/.

/S/
Sidney Bob Dietz II
Director, Regulatory Relations

Attachments

cc: Service Lists R.11-09-011 and R.17-07-007

California Public Utilities Commission

ADVICE LETTER SUMMARY

ENERGY UTILITY

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

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

Utility type:
☑ ELC ☐ GAS ☐ WATER
☐ PLC ☐ HEAT

Contact Person: Kimberly Loo
Phone #: (415)973-4587
E-mail: PGETariffs@pge.com
E-mail Disposition Notice to: KELM@pge.com

EXPLANATION OF UTILITY TYPE
ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 6249-E

Tier Designation: 2

Subject of AL: Modified Forms for Pacific Gas and Electric Company Plans Implementation the Notification-only Non-export Storage Pilot Pursuant to the Rulemaking 17-07-007 Phase 1, Working Group 4 Decision 21-06-002 Ordering Paragraphs 20

Keywords (choose from CPUC listing): Compliance, Rule 21, Forms

AL Type: ☐ Monthly ☐ Quarterly ☐ Annual ☑ One-Time ☐ Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.21-06-002, D.19-03-013

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

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

Confidential treatment requested? ☐ Yes ☑ No

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

Resolution required? ☐ Yes ☑ No

Requested effective date: 8/5/21

No. of tariff sheets: 5

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

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

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

Tariff schedules affected: See Attachment 1

Service affected and changes proposed[1]: N/A

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

[1]Discuss in AL if more space is needed.

Clear Form

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

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

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

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

Clear Form

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
50557-E	Electric Sample Form No. 79-1212 Rule 21 Non-Export Generator Interconnection Notification Sheet 1	
50558-E	Electric Sample Form No. 79-1213 Agreement and Customer Authorization Non-Export Generating Facility Sized 30 Kilowatts or Less Sheet 1	
50559-E	Electric Sample Form No. 79-1214 Notification-Only Pilot Program Developer Eligibility Application Sheet 1	
50560-E	ELECTRIC TABLE OF CONTENTS Sheet 1	50547-E
50561-E	ELECTRIC TABLE OF CONTENTS Sheet 25	50318-E

Electric Sample Form No. 79-1212 Sheet 1 (N)
Rule 21 Non-Export Generator Interconnection Notification (N)

Please Refer to Attached Sample Form

(Continued)

RULE 21 NON-EXPORT GENERATOR INTERCONNECTION NOTIFICATION (Form 79-1212)

Part I - Introduction and Overview

A. Applicability: This Non-Export Generating Facility Interconnection Notification (Notification Form) is used to notify Pacific Gas and Electric Company (PG&E) of a new Non-Export interconnection to its Electric System (over which the California Public Utilities Commission (CPUC) has jurisdiction).

This application only applies to a Generating Facility that meets all of the following requirements:

1. Total system size less than or equal to 30 kilovolt-amps (kVA) and consisting of one of the following:
    a. One new non-export energy storage system; or
    b. One new non-export system including energy storage and solar PV; or
    c. One new non-export energy storage system added to an existing non-export Generating Facility.
2. Represents one of no more than ten (10) non-export notification-only projects connected to the circuit by the eligible developer; and
3. Generating Facility includes a Underwriter Laboratories (UL) certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode; and
4. Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter; and
5. Not located on a networked secondary portion of PG&E's electric system; and
6. Operating in a manner that does not increase customer's peak load; and
7. Includes inverters pre-approved by PG&E; and
8. Installed such that when connected to a single-phase transformer with 120/240 Volts secondary voltage the aggregated gross output is balanced as practicable between the two phases of the 240 Volt service; and
9. Installed by an eligible developer previously approved by PG&E.

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 Notification Form, and not otherwise defined herein, shall have the same meanings as defined in PG&E's Rule 21 and Rule 1.

B. Guidelines and Steps for Interconnection: This Notification Form must be completed and sent to PG&E at Rule21gen@pge.com along with the additional information indicated in Part II below to initiate PG&E's review of the submitted Notification-Only Non-Export Generating Facility and receive written authorization to operate in parallel. 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.

Upon receipt of this Application, PG&E will review submitted documentation for accuracy and completeness and to confirm eligibility. If deficiencies are identified or the Generating Facility is found to be ineligible, PG&E will issue a deficiency notice within fifteen (15) days of Notification Form submittal.

Please note, other approvals may need to be acquired, and/or other agreements may need to be formed with other regulatory agencies, such as 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** with this Notification Form in order to be eligible for the Notification-Only process. Drawings must conform to accepted engineering standards and must be legible. Electronic documents are required.

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. A Simplified Single-line Diagram Template may be used if the Generating Facility meets the stated requirements.
2. **Authority Having Jurisdiction Electrical Release** - Evidence of final electric inspection clearance from the Governmental Authority having jurisdiction over the Generating Facility. Evidence must display the same service address as the PG&E account where the Generating Facility is interconnected.
3. **Developer Attestation** - Attestation confirming:
   a. Generating Facility, when deployed on a 240-volt service, is deployed across the entire 240-volt service; and
   b. If Generating Facility is found to be noncompliant, developer will work with the utility and customer to bring the Generating Facility into compliance and will pursue authorization to operate in parallel through the standard Rule 21 Interconnection Application process.
4. **Developer and Customer Attestations** - Attestation confirming:
   a. Generating Facility meets each of the eligibility criteria indicated in Part I Section A of this Notification Form; and
   b. Recognition and understanding of the Notification-Only process auditing conditions.

Part III Application Appendices

Application Instructions: Complete this application for the complete Generating Facility or enter this information into PG&E's web-based form, when available. (PG&E strongly recommends preparing all information and materials before starting the online application.) Once available, the online web-based form can be found at: www.egi-pge.com

Questions concerning PG&E's Notification For or Online Application process can be directed to the Electric Grid Interconnection Department at rule21gen@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
2	B	Non-Export
3	C	Energy Storage
4	D	Solar (PV)
5	E	Wind (existing only)
6	F	Machine-Based (existing only)
7	G	Fuel Cell (existing only)

ATTACHMENT A
CUSTOMER AND PROJECT INFORMATION

Part I – Identifying the Generating Facility Location and Responsible Parties

Project Name:

A. Generating Facility Account Information (What electric service will the Generating Facility be interconnected for parallel operation with PG&E? For aggregated electric accounts provide the primary account and meter information).

Name shown on PG&E service account	Electric Service Agreement ID number - 10-digits	Electric Badge (Meter) Number - 6-10 digits (alpha numeric)

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

		CA	
Meter Location Street Address	City	State	Zip - 5-digits

Please check all that apply:

- ❑ A New Generating Facility interconnection (at an existing service).
- ❑ Adding Energy Storage to an existing Non-Export Generating Facility with previous approval by PG&E.

B. Customer Account Contact Information -

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

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

Contact		Company Name	
Mailing Address			
City		State	Zip - 5-digits
( ) -	( ) -		
Business Phone	Fax	Email	
☐ Yes ☐ No			
Does Contractor have Contractors State License Board (CSLB) Number?	Contractors State License Board Number		

D. Authorized Project Contact Information (Who is the interconnection project manager for this Generating Facility?)

Contact		Company Name	
Mailing Address			
City		State	Zip - 5-digits
( ) -	( ) -		
Business Phone	Fax	Email	

ATTACHMENT B
NON-EXPORT

Operating Mode

Please confirm by selecting 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.

Protection Options

Please confirm by selecting below:

❑ **Power Control System (PCS) Non-Export**: A PCS is employed to prevent export. For this option, the open loop response time of the PCS must be less than 2 seconds.

ATTACHMENT C
ENERGY STORAGE TECHNOLOGY

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

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "**type" and quantity** of Generator being installed. Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	__ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
F - Gross Nameplate Rating (kVA) This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate. Total Generating Facility Gross Nameplate Rating must be 30 kVA or less. This value is not required where the manufacturer provides only a kW rating. However, where both kVA and kW values are available, please indicate both.				
G - Energy Storage Electrical Source Function (in addition, please complete section: "Additional Information Required for Energy Storage")	Max kWh Capacity: _____ Rated kW Discharge: _____	Max kWh Capacity: _____ Rated kW Discharge: _____	Max kWh Capacity: _____ Rated kW Discharge: _____	Max kWh Capacity: _____ Rated kW Discharge: _____
H - Operating Voltage This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See PG&E's Rule 21, Section H.2.b. and Table H.1., for additional information.				
I - Power Factor Rating This value should be the nominal power factor rating designated by the manufacturer for the Generator. See PG&E's Rule 21, Section H.2.i. for additional information.				
J - PF Adjustment Range Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See PG&E's Rule 21, Section H.2.i.				
K - Wiring Configuration Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.				

RULE 21 NON-EXPORT GENERATOR INTERCONNECTION NOTIFICATION (Form 79-1212)

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
L - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	__3 Wire Delta __3 Wire Wye __4 Wire Wye	__3 Wire Delta __3 Wire Wye __4 Wire Wye	__3 Wire Delta __3 Wire Wye __4 Wire Wye	__3 Wire Delta __3 Wire Wye __4 Wire Wye
M - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms
N - Short Circuit Current Produced by Generator:	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
O – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3	1 2 3	1 2 3
P - AC Disconnect For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect. See PG&E's Rule 21, Section H.1.d Located within 10 feet of the PG&E meter?	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No

RULE 21 NON-EXPORT GENERATOR INTERCONNECTION NOTIFICATION (Form 79-1212)

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Q - Energy Storage (ES) System (For important sizing information related to DC-Coupled configurations, see sizing note below).	____________ Manufacturer ____________ Model # ____________ Quantity of Units	____________ Manufacturer ____________ Model # ____________ Quantity of Units	____________ Manufacturer ____________ Model # ____________ Quantity of Units	____________ Manufacturer ____________ Model # ____________ Quantity of Units
R - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
S - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements?	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
T - Basic Single Line Diagram (SLD) If the interconnection is eligible to use a Basic SLD, please include the requested information. Can this system be used as a back-up generator? If so, please include the requested information for the back-up controller or other device.	____________ Panel Voltage (Volts) ____________ Main Breaker (Amps) ____________ Storage Breaker Size (Amps) ____ Yes ____ No ____________ Manufacturer ____________ Make ____________ Model No.	____________ Panel Voltage (Volts) ____________ Main Breaker (Amps) ____________ Storage Breaker Size (Amps) ____ Yes ____ No ____________ Manufacturer ____________ Make ____________ Model No.	____________ Panel Voltage (Volts) ____________ Main Breaker (Amps) ____________ Storage Breaker Size (Amps) ____ Yes ____ No ____________ Manufacturer ____________ Make ____________ Model No.	____________ Panel Voltage (Volts) ____________ Main Breaker (Amps) ____________ Storage Breaker Size (Amps) ____ Yes ____ No ____________ Manufacturer ____________ Make ____________ Model No.
U - Back-up Generator Operation Will the generator be operated as a back-up? If yes, please indicate control device.	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker

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-eligible generator plus storage systems is the lesser of the shared inverter's (or inverters') nameplate capacity (capacities summed) and the storage device's (devices') maximum continuous discharge capacity (capacities summed) listed on the device's (devices') technical specifications sheets. A storage device's maximum continuous discharge capacity may be listed on technical specification sheets using different terminology. Note: PG&E will use common sense to determine whether a device's technical specification sheet includes the appropriate metric for purposes of determining system size, regardless of the terminology used. If that metric is not included, PG&E may rely on the inverter's nameplate rating.

For example:

- What is the maximum continuous discharge capability for each storage unit?
  _____ +_____ +_____ +_____ + _____ =. total_____
- What is each inverter's nameplate rating?
  _____ +_____ +_____ +_____ + _____ =. total_____

ATTACHMENT D
SOLAR (PV) TECHNOLOGY

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

Instructions				
Inverter	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
Please indicate the number of each "**type" and quantity** of Generator being installed Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.				
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.				
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.				
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.				
D - Is the Generator/Inverter certified? Applicant has verified that all major solar system components have appropriate 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

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E - Modules.	_____ Manufacturer _____ Model #. _____ Quantity	_____ Manufacturer _____ Model #. _____ Quantity	_____ Manufacturer _____ Model #. _____ Quantity	_____ Manufacturer _____ Model #. _____ Quantity
F - Gross Nameplate Rating (kVA) This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate. Total Generating Facility Gross Nameplate Rating must be 30 kVA or less. This value is not required where the manufacturer provides only a kW rating. However, where both kVA and kW values are available, please indicate both.				
G - Operating Voltage This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See PG&E's Rule 21, Section H.2.b. and Table H.1., for additional information.				
H - Power Factor Rating This value should be the nominal power factor rating designated by the manufacturer for the Generator. See PG&E's Rule 21, Section H.2.i. for additional information.				
I - PF Adjustment Range Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See PG&E's Rule 21, Section H.2.i.				

Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
J - Wiring Configuration Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.				
K - AC Disconnect For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect. See PG&E's Rule 21, Section H.1.d	_____ Manufacturer _____ Model # _____ Rating (amps)	_____ Manufacturer _____ Model # _____ Rating (amps)	_____ Manufacturer _____ Model # _____ Rating (amps)	_____ Manufacturer _____ Model # _____ Rating (amps)
Located within 10 feet of the PG&E meter?	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
L - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
M - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements?	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
N - Back-up Generator Operation Will the generator be operated as a back-up? If yes, please indicate the control device that will be used.	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker

ATTACHMENT E
WIND TURBINE TECHNOLOGY (EXISTING ONLY)

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

Instructions		
Generator Information	Existing Generator type 1	Existing Generator type 2
Please indicate the number of each "**type" and quantity** of Generator being installed Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.	Type: _____ Qty.: _____	Type: _____ Qty.: _____
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.		
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.		
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.		
D - Is the Inverter certified? Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No
E - Generator Design Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter

Generator Information	Existing Generator type 1	Existing Generator type 2
F - Gross Nameplate Rating (kVA) This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate. Total Generating Facility Gross Nameplate Rating must be 30 kVA or less. This value is not required where the manufacturer provides only a kW rating. However, where both kVA and kW values are available, please indicate both.		
G - Operating Voltage This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See PG&E's Rule 21, Section H.2.b. and Table H.1., for additional information.		
H - Power Factor Rating This value should be the nominal power factor rating designated by the manufacturer for the Generator. See PG&E's Rule 21, Section H.2.i. for additional information.		
I - PF Adjustment Range Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See PG&E's Rule 21, Section H.2.i.		
J - Wiring Configuration Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.		
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	__3 Wire Delta __3 Wire Wye __4 Wire Wye	__3 Wire Delta __3 Wire Wye __4 Wire Wye

Generator Information	Existing Generator type 1	Existing Generator type 2

L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms	___ Ungrounded ___ Solidly Grounded ___ Ground Resistor ___ Ohms
M - *Induction Generators Only:* Locked Rotor Current: *Stator Resistance:* Stator Leakage Reactance: Rotor Resistance: Rotor Leakage Reactance: If the Generator is of an induction design, please provide the "locked rotor current" value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System.	_____ (Amps) _____(%) _____(%) _____(%) _____(%)	_____ (Amps) _____(%) _____(%) _____(%) _____(%)
N - Short Circuit Current Produced by Generator:	_____ (Amps)	_____ (Amps)
O - AC Disconnect For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect. See PG&E's Rule 21, Section H.1.d Located within 10 feet of the PG&E meter?	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No
P - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements	____ Yes ____ No	____ Yes ____ No

Generator Information	Existing Generator type 1	Existing Generator type 2

Q - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements?	____ Yes ____ No	____ Yes ____ No
R - Back-up Generator Operation Will the generator be operated as a back-up? If yes, please indicate control device.	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker

ATTACHMENT F
MACHINE-BASED TECHNOLOGY (EXISTING ONLY)

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

Instructions		
Generator Information	Existing Generator type 1	Existing Generator type 2
Please indicate the number of each "**type" and quantity** of Generator being installed. Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed.		
A - Generator/Inverter Manufacturer Enter the brand name of the Generator.		
B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.		
C - Generator/Inverter Software Version If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.		
D - Is the Generator/Inverter certified? Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory. See PG&E's Rule 21, Section L for additional information regarding Generator certification.	____ Yes ____ No	____ Yes ____ No
F - Gross Nameplate Rating (kVA) This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate. Total Generating Facility Gross Nameplate Rating must be 30 kVA or less. 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.		

Generator Information	Existing Generator type 1	Existing Generator type 2
G - Operating Voltage This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See PG&E's Rule 21, Section H.2.b. and Table H.1., for additional information.		
H - Power Factor Rating This value should be the nominal power factor rating designated by the manufacturer for the Generator. See PG&E's Rule 21, Section H.2.i. for additional information.		
I - PF Adjustment Range Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See PG&E's Rule 21, Section H.2.i.		
J - Wiring Configuration Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.		
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	__3 Wire Delta __3 Wire Wye __4 Wire Wye	__3 Wire Delta __3 Wire Wye __4 Wire Wye
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms

Generator Information	Existing Generator type 1	Existing Generator type 2
M – *Synchronous Generators Only:* If the Generator is of a synchronous design, please provide the synchronous reactance, transient reactance, and subtransient reactance values supplied by the manufacturer. This information is necessary to determine the short circuit contribution of the Generator and as data in load flow and short circuit computer models of PG&E's Electric System. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System. Synchronous Reactance: Transient Reactance: Subtransient Reactance:	 _____ (Xd %) _____ (Xd %) _____ (Xd %)	 _____ (Xd %) _____ (Xd %) _____ (Xd %)
N - *Induction Generators Only:* Locked Rotor Current: *Stator Resistance:* Stator Leakage Reactance: Rotor Resistance: Rotor Leakage Reactance: If the Generator is of an induction design, please provide the "locked rotor current" value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator's Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Electric System.	 _____ (Amps) _____(%) _____(%) _____(%) _____(%)	 _____ (Amps) _____(%) _____(%) _____(%) _____(%)
O - Short Circuit Current Produced by Generator:	_____ (Amps)	_____ (Amps)

RULE 21 NON-EXPORT GENERATOR INTERCONNECTION NOTIFICATION (Form 79-1212)

Generator Information	Existing Generator type 1	Existing Generator type 2
P – *For Generators that are Started as a "Motor" Only:* This information is needed only for Generators that are started by "motoring" the generator. See PG&E's Rule 21, Sections L.3.d. and L.7.b. for significance and additional information. If this question was answered in Part IV, question C of this Application, it need not be answered here. 1. In-Rush Current: 2. Host Customer's Service Entrance Panel (Main Panel) Continuous Current Rating:	_____ (Amps) _____ (Amps)	_____ (Amps) _____ (Amps)
Q – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3
R - AC Disconnect For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect. See PG&E's Rule 21, Section H.1.d Located within 10 feet of the PG&E meter?	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No
S - Cogeneration Please indicate whether this Generating Facility meets the definition of cogeneration in PUC 216.6 (5% useful thermal and 42.5% efficient):	____ Yes ____ No	____ Yes ____ No
T - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements	____ Yes ____ No	____ Yes ____ No
U - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements?	____ Yes ____ No	____ Yes ____ No

V - Back-up Generator Operation Will the generator be operated as a back-up? If yes, please indicate control device.	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	____ Yes ____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker

ATTACHMENT G
FUEL CELL TECHNOLOGY (EXISTING ONLY)

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

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

Generator Information	Existing Generator type 1	Existing Generator type 2
E - Generator Design Please indicate the design of each Generator. Designate “Inverter” anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter
F - Gross Nameplate Rating (kVA) This is the capacity value normally supplied by the manufacturer and stamped on the Generator’s nameplate. Total Generating Facility Gross Nameplate Rating must be 30 kVA or less. This value is not required where the manufacturer provides only a kW rating. However, where both kVA and kW values are available, please indicate both.		
G - Operating Voltage This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See PG&E’s Rule 21, Section H.2.b. and Table H.1., for additional information.		
H - Power Factor Rating This value should be the nominal power factor rating designated by the manufacturer for the Generator. See PG&E’s Rule 21, Section H.2.i. for additional information.		
I - PF Adjustment Range Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See PG&E’s Rule 21, Section H.2.i.		
J - Wiring Configuration Please indicate whether the Generator is a single-phase or three-phase device. See PG&E’s Rule 21, Section H.3.		
K - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator’s windings or inverter systems.	__3 Wire Delta __3 Wire Wye __4 Wire Wye	__3 Wire Delta __3 Wire Wye __4 Wire Wye

RULE 21 NON-EXPORT GENERATOR INTERCONNECTION NOTIFICATION (Form 79-1212)

Generator Information	Existing Generator type 1	Existing Generator type 2
L - (MP) Neutral Grounding System Used (Choose One) Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms	__ Ungrounded __ Solidly Grounded __ Ground Resistor __ Ohms
M - Short Circuit Current Produced by Generator:	_____ (Amps)	_____ (Amps)
N – Prime Mover Type Please indicate the type and fuel used as the prime mover or source of energy for the Generator. 1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel	1 2 3	1 2 3
O - AC Disconnect For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect. See PG&E's Rule 21, Section H.1.d Located within 10 feet of the PG&E meter?	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No	_____ Manufacturer _____ Model # _____ Rating (amps) ____ Yes ____ No
P - Cogeneration Please indicate whether this Generating Facility meets the definition of cogeneration in PUC 216.6 (5% useful thermal and 42.5% efficient):	____ Yes ____ No	____ Yes ____ No
Q - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements	____ Yes ____ No	____ Yes ____ No
R - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements?	____ Yes ____ No	____ Yes ____ No

Generator Information	Existing Generator type 1	Existing Generator type 2
S - Back-up Generator Operation Will the generator be operated as a back-up? If yes, please indicate control device.	_____ Yes _____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker	_____ Yes _____ No ☐ Automatic Transfer Switch ☐ Contactor ☐ Breaker

Electric Sample Form No. 79-1213 Sheet 1 (N)
Agreement and Customer Authorization Non-Export Generating Facility Sized 30 Kilowatts or Less (N)

Please Refer to Attached Sample Form

(Continued)

AGREEMENT AND CUSTOMER AUTHORIZATION NON-EXPORT GENERATING FACILITY SIZED 30 KILOWATTS OR LESS (FORM 79-1213)

1. SCOPE AND PURPOSE

The purpose of this *Non-Export Generating Facility Sized 30 Kilowatts or Less Agreement* (Agreement) is to allow the Customer identified below to interconnect and operate a Non-Export Generating Facility (Generating Facility) in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System. Customer has elected to interconnect and operate its Generating Facility to serve the electrical loads connected to the electric service agreement ID identified below. Customer shall comply at all times with this Agreement as well as with all applicable laws, tariffs and requirements of the California Public Utilities Commission (CPUC).

2. CUSTOMER AND GENERATING FACILITY

a. 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's Generating Facility and loads are interconnected with PG&E's Distribution System, are attached to and made a part of this Agreement. (Supplied by Customer as Appendix A).

b. Generating Facility identification number: _____ (Assigned by PG&E).

c. Customer's electric service agreement ID number: _____ (Assigned by PG&E).

d. Customer name and address used by PG&E to locate the electric service account used to interconnect the Generating Facility with PG&E's Distribution System:

Name: _____

Address: _____

City/Zip Code: _____

e. The Gross Nameplate Rating of the inverter connected to the Generating Facility is: _____ kW.

f. The Net Nameplate Rating of the Generating Facility is _____ kW.

g. The expected annual energy production of the Generating Facility is _____ kWh.

3. DOCUMENTS INCLUDED; DEFINED TERMS

a. 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 Customer).

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 - Operating Requirements for Energy Storage Device(s).

b. 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. GENERATING FACILITY, OPERATION AND CERTIFICATION REQUIREMENTS

a. The electric power produced by Customer's Generating Facility shall be used solely to serve electrical loads connected to the electric service account that PG&E uses to interconnect Customer's Generating Facility. Customer shall attempt in good faith to regulate the electric power output of Customer's Generating Facility so as to prevent the flow of electric energy from the Generating Facility to PG&E's electric system. Unless otherwise agreed upon in writing by the Parties, this Agreement does not provide for, nor otherwise require PG&E to receive, purchase, transmit, distribute, or store the electrical power produced by Customer's Generating Facility.

b. Distribution Provider may provide requirements that must be met by the Customer 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 C of this Agreement.

5. AUTHORIZED CONTACT INFORMATION

This section is 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.**

6. 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.

7. SAFETY

Customer shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, PG&E's Electric Rule 21, and other rules approved by the CPUC regarding safety and reliability. A Customer with a solar or wind-turbine electrical generating system, or a hybrid system of both, that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

8. SAFE OPERATION OF GENERATING FACILITY

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

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. STALE AGREEMENT

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 interconnect their Non-Export Generating Facility.

15. SMART INVERTERS

15.1 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 inverter. Customer further agrees to cooperate fully with any such request and make their inverter available to the Distribution Provider for such verification. Customer understands that in the event the inverter is not set in accordance with Section Hh of Rule 21, Customer will need to cease operation of generating facility until verification is confirmed by Distribution Provider. (Solar Inverter models and firmware versions that comply with Rule 21 Section Hh can be found at http://www.gosolarcalifornia.org/equipment/inverters.php.

Verification of inverter model's 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 application1 no later than March 31, 2018, or

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

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

(i) inverter equipment that complies with Section Hh of Rule 21, (encouraged); or

(ii) a conventional inverter that is of the same size and equivalent ability to that of the inverter being replaced, as allowed in Rule 21 Section H.3.d.ii.

AGREEMENT AND CUSTOMER AUTHORIZATION
Non-Export Generating Facility Sized 30 Kilowatts or Less

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

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

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

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 Section 4, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my Interconnection Application.**

3) **I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E's Electric Rule 21.**

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

_____
(Signature)

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

_____
(Date)

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

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 Rule 21 requirements.

APPENDIX A

DEVELOPER AND CUSTOMER ATTESTATION

APPENDIX B

DESCRIPTION OF GENERATING FACILITY AND SINGLE-LINE DIAGRAM

(Provided by Customer)

APPENDIX C

RULES "2" AND "21"

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

APPENDIX D (If Applicable)

RULE 21 "SPECIAL FACILITIES" AGREEMENT
(Formed between the Parties)

APPENDIX E

OPERATING REQUIREMENTS FOR ENERGY STORAGE DEVICE(S)

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

- ❑ Customer's storage device(s) will not consume power from Distribution Provider's Distribution System at any time.
- ❑ Customer'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 Customer'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, Customer 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. Customer will be responsible for the costs of the corresponding upgrades or other technical mitigations if at any time the Customer elects to forego or violates the operating requirement.

Consistent with current load service Rules, Distribution Provider is not required to reserve capacity for load. Customer 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. Customer must provide such data within 30 Calendar Days of the written request.

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

Electric Sample Form No. 79-1214 Sheet 1 (N)
Notification-Only Pilot Program Developer Eligibility Application (N)

Please Refer to Attached Sample Form

(Continued)

NOTIFICATION-ONLY PILOT PROGRAM DEVELOPER ELIGIBILITY APPLICATION (Form 79-1214)

Part I - Introduction and Overview

A. Applicability: This Notification-only Pilot Program Developer Eligibility Application (Application) is used by generator interconnection project developers to apply for eligibility to participate in the Notification-only Pilot Program administered by Pacific Gas and Electric Company (PG&E).

This application only applies to generator interconnection project developers that are requesting approval to participate in the Notification-only Pilot Program to interconnect a non-export Generating Facilities that meets the following requirements:

1. Total system size less than or equal to 30 kilovolt-amps (kVA) and consisting of one of the following:
    a. One new non-export energy storage system; or
    b. One new non-export system including energy storage and solar PV; or
    c. One new non-export energy storage system added to an existing non-export Generating Facility.
2. Represents one of no more than ten (10) non-export notification-only projects connected to the circuit by the eligible developer; and
3. Generating Facility includes a Underwriter Laboratories (UL) certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode; and
4. Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter; and
5. Not located on a networked secondary portion of PG&E's electric system; and
6. Operating in a manner that does not increase customer's peak load; and
7. Includes inverters pre-approved by PG&E; and
8. Installed such that when connected to a single-phase transformer with 120/240 Volts secondary voltage the aggregated gross output is balanced as practicable between the two phases of the 240 Volt service; and
9. Installed by an eligible developer previously approved by PG&E.

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 Notification Form, and not otherwise defined herein, shall have the same meanings as defined in PG&E's Rule 21 and Rule 1.

B. Guidelines and Steps for Interconnection: This Application must be completed and sent to PG&E at EGInotification-onlypilot@pge.com to initiate PG&E's review of a generator interconnection project developer to be eligible to participate in the Notification-only Pilot Program.

Upon receipt of this Application, PG&E will review submitted documentation to confirm eligibility. PG&E will either reply with notification of approval or a deficiency notice within ten (10) days of Application receipt.

Questions concerning PG&E's Notification Form or Online Application process can be directed to the Electric Grid Interconnection Department at EGInotification-onlypilot@pge.com

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

Part II – Application Details

This Application includes the following sections:

1. **Developer Information** - Contact information including name, company, phone number, and email address.
2. **Previously Interconnected Eligible Projects** - Twenty (20) non-export projects meeting the Notification-only Pilot Program eligibility requirements outlined in Part I.
3. **Developer Attestation** - Attestation confirming:
   a. Generating Facility, when deployed on a 240-volt service, is deployed across the entire 240-volt service; and
   b. If Generating Facility is found to be noncompliant, developer will work with the utility and customer to bring the Generating Facility into compliance and will pursue authorization to operate in parallel through the standard Rule 21 Interconnection Application process.

Part III - Application

A. Developer Information

Contact		Company Name	
Mailing Address			
City		State	Zip - 5-digits
( ) -	( ) -		
Business Phone	Alternate Phone	Email	

B. Previously Interconnected Eligible Projects

Project 1	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 2	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 3	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 4	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 5	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 6	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 7	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 8	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 9	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 10	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 11	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 12	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 13	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 14	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 15	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 16	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 17	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 18	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 19	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

Project 20	Project Notification Number (9-digit interconnection project reference number)		
	Eligibility Criteria	Description	Project Details
	1	System size less than or equal to 30 kVA (provide system kVA)	_____ kVA
		Project Type (choose one)	❑ Non-export energy storage system (no other generators on-site) ❑ Non-export system including energy storage and solar PV ❑ Non-export energy storage system added to an existing non-export Generating Facility
	2	One of no more than ten (10) non-export projects connected to the circuit by the developer	❑ Yes ❑ No
	3	Includes a UL certified Power Control System (PCS) with an Open Loop response time of two seconds or less and set to non-export mode	❑ Yes ❑ No
	4	Interconnected to a 120 Volt or 240 Volt service that uses a self-contained meter	❑ Yes ❑ No
	5	Not located on a networked secondary portion of PG&E's electric system	❑ Yes ❑ No
	6	Operating in a manner that does not increase customer's peak load	❑ Yes ❑ No
	7	Includes inverters pre-approved by PG&E	❑ Yes ❑ No
	8	Connected to a single-phase transformer with 120/240 Volts secondary voltage? If yes, is the aggregated gross output balanced as practicable between the two phases of the 240 Volt service?	❑ Yes ❑ No ❑ Yes ❑ No

C. Developer Attestation

ATTESTATION THAT DEVELOPER MEETS THE REQUIREMENTS FOR ELIGIBILITY TO PARTICIPATE IN THE NON-EXPORT STORAGE PILOT PROGRAM PURSUANT TO CPUC DECISION 21-06-002 ORDERING PARAGRAPH 1

I, _____, ("Developer") state as follows:

1. I am an authorized representative of _____ ("Developer Company") and I am authorized to make this attestation.

2. I have personal knowledge of the matters set forth herein and if called upon as a witness could and would testify competently thereto.

3. I, Developer attests that I am eligible to participate in Pacific Gas and Electric Company's ("PG&E") Notification-Only, Non-Export Storage Pilot Program ("Pilot Program") as a pre-approved Contractor or Developer, pursuant to California Public Utilities Commission ("CPUC") Decision (D.) 21-06-002.

   In attesting that I am eligible to participate in the Pilot Program, I represent that Developer Company fulfils the following requirements:

   a. Successfully deployed the 20 non-export projects identified herein that meet the eligibility criteria for the Pilot Program using PG&E's standard interconnection application process;

   b. Understands where the networked secondary portion of PG&E's grid is located. The boundaries of PG&E's Secondary Network can be found at PG&E's website (please click here to view the map); and

   c. Will not use the Pilot Program for projects deployed on the networked secondary portions of PG&E's grid (as listed on PG&E's website at the time of application).

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

SIGNATURE

NAME OF COMPANY

By: _____

Print: _____

Title: _____

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PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency Financing

California Alternative Energy and Advanced Transportation Financing Authority
California Public Utilities Commission
Calpine

Cameron-Daniel, P.C.
Casner, Steve
Cenergy Power
Center for Biological Diversity

Chevron Pipeline and Power
City of Palo Alto

City of San Jose
Clean Power Research
Coast Economic Consulting
Commercial Energy
Crossborder Energy
Crown Road Energy, LLC
Davis Wright Tremaine LLP
Day Carter Murphy

Dept of General Services
Don Pickett & Associates, Inc.
Douglass & Liddell

East Bay Community Energy Ellison Schneider & Harris LLP Energy Management Service
Engineers and Scientists of California

GenOn Energy, Inc.
Goodin, MacBride, Squeri, Schlotz & Ritchie
Green Power Institute
Hanna & Morton
ICF
IGS Energy
International Power Technology
Intestate Gas Services, Inc.
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated Waste Management Task Force
MRW & Associates
Manatt Phelps Phillips
Marin Energy Authority
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

Office of Ratepayer Advocates
OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.
SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

TransCanada
Utility Cost Management
Utility Power Solutions
Water and Energy Consulting Wellhead Electric Company
Western Manufactured Housing Communities Association (WMA)
Yep Energy