

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



November 4, 2022

Advice Letter 6609-E-A

Sidney Bob Dietz II
Director, Regulatory Relations
Pacific Gas and Electric Company
77 Beale Street
San Francisco, California 94177
E-mail: PGETariffs@pge.com

SUBJECT: Modifications to PG&E's Form 79-1174-02 ("Rule 21 Generator Interconnection Application") Attachments to Incorporate an Exception Option to the Latest Smart Inverter Requirements for Interconnections Participating in the Emergency Load Reduction Program

Dear Mr. Dietz:

Pacific Gas and Electric Company Advice Letter 6609-E-A is effective as of July 20, 2022.

Sincerely,

Handwritten signature of Leuwam Tesfai in black ink.

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

July 11, 2022

Advice 6609-E-A

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Supplemental: Modifications to PG&E's Form 79-1174-02 ("Rule 21 Generator Interconnection Application") Attachments to Incorporate an Exception Option to the Latest Smart Inverter Requirements for Interconnections Participating in the Emergency Load Reduction Program

Purpose

Pacific Gas and Electric Company (PG&E) hereby submits this Supplemental Tier 2 advice letter to propose modifications to PG&E's existing Rule 21 interconnection application, Filed Form 79-1174-02, specifically to the associated technology-specific attachment H. This attachment will provide new smart inverter options (exceptions) to support Emergency Load Reduction Program (ELRP)¹ for DC Vehicle-to-grid (V2G) Electric Vehicle Supply Equipment (EVSE). Furthermore, PG&E will seek Electric Vehicle (EV) make, model and year information² to assist with PG&E engineers' review, in support of the temporary pathway to interconnection for V2G alternating current (AC) pilot ("Pathway" or "V2G AC Pilot") proposed in PG&E Advice Letter (AL) 6209-E³ and approved in CPUC Resolution E-5165.⁴ This advice letter complements Advice Letter

¹ The Emergency Load Reduction Program (ELRP) implementation was ordered in [Decision 21-02-015](#). "Phase 2 Decision Directing Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company to Take Actions to Prepare for Potential Extreme Weather in the Summers of 2022 and 2023. The decision's Ordering Paragraph 6 adopts the earlier D.21-12-015's Attachment 2 creating exceptions to certain smart inverter requirements for DC Vehicle-to-grid (V2G) Electric Vehicle Supply Equipment (EVSE) participating in the ELRP.

² This collection of information is provisional, as the V2G-AC standards have not yet been developed. Once the standards are completed, PG&E will reevaluate the process.

³ [AL 6209-E](#) – Joint Advice Letter Proposing Interconnection Pathway For Vehicle-To-Grid Alternating Current Projects And Implementation Steps For Direct Current Electric Vehicle Supply Equipment Projects, Pursuant To Decision 20-09-035

⁴ [Resolution E-5165](#) – "Approval, with Modifications, of Vehicle-to-Grid Implementation Plans and Technical Requirements in Compliance with Decision 20-09-035," issued November 4, 2021.

(AL) 6543-E⁵, which made changes in Rule 21 to implement these ELRP DC V2G EVSE smart inverter options. These options will also be reflected in PG&E online application portal, replacing some of the manual processes currently in place.

This supplemental advice letter replaces original AL 6609-E in its entirety and addresses a protest raised to that advice letter.

Background

AL 6543-E

Approved by the California Public Utilities Commission on May 16, 2022 and made effective as of May 1, 2022, AL 6543-E provides a detailed overview of the regulatory background for the creation on the options being added to the forms. Suffice it to say AL 6543-E and this advice letter touch on two regulatory proceedings – the Rule 21 proceeding Rulemaking (R.) 17-07-007 and the electric reliability proceeding, R. 20-11-003.

AL 6609-E

AL 6609-E,⁶ submitted on May 31, 2022, complemented AL 6543-E, adding a question to Section Z (vehicle to grid)⁷ regarding whether there was an Electric Load Reduction Program (ELRP) application submitted and if so, what is the application number (to offer the exemption from the latest Rule 21 smart inverter certifications).

Vehicle to Grid Integration Council (VGIC) Protest and PG&E Response Thereto

On June 17, 2022, VGIC submitted a protest to PG&E AL 6609-E raising the following issues:

- The requirement that applicants provide the vehicle make, model, and year is inappropriate for both V2G DC and V2G Alternating Current (“AC”) (i.e., inverter is on board the vehicle) configurations.

⁵ [AL 6543-E](#) – “Modifications to Electric Rule 21 Pursuant to Emergency Load Reduction Program Decision 21-02-015” Effective May 1, 2022. This advice letter added the DC V2G EVSE smart inverter exceptions in Rule 21

⁶ AL 6609-E – *Modifications to PG&E’s Form 79-1174-02 (“Rule 21 Generator Interconnection Application”) Attachments to Incorporate an Exception Option to the Latest Smart Inverter Requirements for Interconnections Participating in the Emergency Load Reduction* submitted May 31, 2022.

⁷ Section Z was added in [AL 6539-E](#), supplemented by [AL 6539-E-A](#) *Supplemental Modifications to PG&E’s Interconnection Application Form 79-1174-02 Attachment H to Support the Vehicle-to-Grid Pathway Pursuant to the Rule 21 Working Group 2 and 3 Decision 20-09-035, with Modifications Pursuant to Resolution E-5165* – submitted March 30, 2022, & supplemental submitted April 12, 2022, made effective May 16, 2022. In AL 6539-E, PG&E added a new Section Z to Form 79-1174-02 Attachment H collecting EV make, model and year, and EVSE model year and in AL 6539-E-A PG&E added a section whether an EVSE with an inverter is newly installed.

- In a 2021 V2G AC workshop, PG&E detailed the following implementation process for V2G AC pilots, which did not indicate that customers must provide vehicle make, model, and year in their interconnection application.
- The device seeking interconnection is the EVSE, not the vehicle, and vehicle characteristics are not referenced anywhere in PG&E’s Rule 21.
- The exporting vehicle(s) may change over time as fleets or owners replace older vehicles with newer models, or the exporting capabilities of a given vehicle may change due to over-the-air (“OTA”) software updates.

Following VGIC’s protest of PG&E’s Advice Letter 6609-E, PG&E reassessed its proposed changes and submitted its *Reply to Vehicle Grid Integration Council’s Protest to Advice Letter 6609-E* on June 27, 2022, committing to make certain revisions to its proposal.

In addition, PG&E reached out to VGIC for comment on the revised wording proposal. VGIC indicated their preference was not to include it, but if PG&E felt strongly about including it for the V2G AC case, they would be willing to accept that for the V2G AC Pilot. PG&E now memorializes these revisions in this supplemental advice letter.

This Advice Letter

This advice letter makes modifications to PG&E’s existing Form 79-1174-02 Attachment H (for storage technology), PG&E’s *Rule 21 Interconnection Application Form Attachment for Energy Storage Technology* (V2G being a type of storage), as shown below in red. These updates will also be incorporated into PG&E’s online interconnection application portal, *YourProjects*.

| | | |
|--|---|---|
| <p>Z - Vehicle to Grid</p> <p>Will the inverter be located in the Electric Vehicle Service-Supply Equipment (EVSE) or in the Electric Vehicle (EV) itself?</p> <p><i>If for the V2G AC Pilot, the EV includes the inverter, please provide Electric-Vehicle-EV details.</i></p> <p>If inverter is in the EVSE, please provide EVSE model manufacture year.</p> | <p>_____ EVSE _____ EVSE</p> <p>_____ EV _____ EV</p> <p>_____ EV Vehicle Make _____ EV Vehicle Make</p> <p>_____ EV Vehicle Model _____ EV Vehicle Model</p> <p>_____ EV Year _____ EV Year</p> <p>_____ EVSE Model Year _____ EVSE Model Year</p> | <p>_____ EVSE _____ EVSE</p> <p>_____ EV _____ EV</p> <p>_____ EV Vehicle Make _____ EV Vehicle Make</p> <p>_____ EV Vehicle Model _____ EV Vehicle Model</p> <p>_____ EV Year _____ EV Year</p> <p>_____ EVSE Model Year _____ EVSE Model Year</p> |
|--|---|---|

| | | | | |
|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| If inverter is in the EVSE, is the EVSE newly installed? | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |
| | <input type="checkbox"/> No | <input type="checkbox"/> No | <input type="checkbox"/> No | <input type="checkbox"/> No |
| If inverter is in the EVSE, will the Generator participate in the Emergency Load Reduction Program (ELRP)? | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |
| | <input type="checkbox"/> No | <input type="checkbox"/> No | <input type="checkbox"/> No | <input type="checkbox"/> No |
| If yes, please provide ELRP Application Number | <input type="text"/> Application # |

Form 79-1174-02 Attachment H (for storage technology) will request information about the EV make, model and year, in support of the V2G AC Pilot. This secondary information helps PG&E’s engineers to determine the capabilities of the inverter located in V2G AC EV.

As it relates to V2G DC, while AL 6543-E modified Rule 21 to allow for ELRP smart inverter options for V2G DC EVSE, PG&E has managed those requests “manually,” in order to better support the initiative. The ELRP questions will allow PG&E to determine eligibility and will exempt customers from the UL-1741-SA requirements.

It should also be noted that in AL 6609-E, PG&E inadvertently modified several form attachments (Form 79-1174-02 Attachments D – G) where those modifications were not relevant. PG&E removes those same modifications in this AL and makes modifications only to Attachment H. PG&E regrets not catching this in the previous advice letter.

PG&E also made a ministerial revision to Form 79-1174-02 Attachment H to correct a typographical error in which we incorrectly defined “EVSC” as “Electric Vehicle Service Equipment” instead of “Electric Vehicle Supply Equipment.”

For convenience of the reader, PG&E has included “track-change” or “redline” revisions of Form 79-1174-02H in Attachment 2.

Protests

Pursuant to GO 96-B, General Rule 7.5.1, PG&E requests to maintain the original protest and comment period designated in Advice 6609-E and not reopen the protest period.

Effective Date

Pursuant to General Order (GO) 96-B, Rule 5.2, this advice letter is submitted with a Tier 2 designation. PG&E requests that this Tier 2 advice submittal become effective on July



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 U39 E)

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) #: 6609-E-A

Tier Designation: 2

Subject of AL: Supplemental: Modifications to PG&E's Form 79-1174-02 ("Rule 21 Generator Interconnection Application") Attachments to Incorporate an Exception Option to the Latest Smart Inverter Requirements for Interconnections Participating in the Emergency Load Reduction Program

Keywords (choose from CPUC listing): Rule 21

AL Type: Monthly Quarterly Annual One-Time Other:

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

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

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

Confidential treatment requested? Yes No

If yes, specification of confidential information:

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

Resolution required? Yes No

Requested effective date: 7/20/22

No. of tariff sheets: 3

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

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

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

Tariff schedules affected: See Attachment 1

Service affected and changes proposed¹: N/A

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

¹Discuss in AL if more space is needed.

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

California Public Utilities Commission
Energy Division Tariff Unit Email:
EDTariffUnit@cpuc.ca.gov

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson
Title: Director, Regulatory Relations
Utility/Entity Name: Pacific Gas and Electric Company

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email: PGETariffs@pge.com

Contact Name:
Title:
Utility/Entity Name:

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

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

Clear Form

| Cal P.U.C. Sheet No. | Title of Sheet | Cancelling Cal P.U.C. Sheet No. |
|---------------------------------|---|--|
| 53678-E | Electric Sample Form No. 79-1174-02H Rule 21 Generator Interconnection Application - Attachment H Sheet 1 | 52880-E |
| 53679-E | ELECTRIC TABLE OF CONTENTS Sheet 1 | 53584-E |
| 53680-E | ELECTRIC TABLE OF CONTENTS Sheet 25 | 52882-E |



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

Sheet 1

**Please Refer to Attached
Sample Form**

(Continued)

Advice Decision 6609-E-A

Issued by
Meredith Allen
Vice President, Regulatory Affairs

Submitted July 11, 2022
Effective _____
Resolution _____



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

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

| Instructions | | | | |
|---|--|--|--|--|
| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
| <p>Please indicate the number of each “type” and quantity of Generator being installed.</p> <p>Be sure all Generators classified as one “type” are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p> | | | | |
| <p>A - Generator/Inverter Manufacturer Enter the brand name of the Generator.</p> | | | | |
| <p>B - Generator/Inverter Model Enter the model name or number assigned by the manufacturer of the Generator.</p> | | | | |
| <p>C - Generator/Inverter Software Version If this Generator’s control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.</p> | | | | |
| <p>D - Is the Generator/Inverter certified? Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&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.</p> | ___ Yes ___ No | ___ Yes ___ No | ___ Yes ___ No | ___ Yes ___ No |
| <p>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.</p> | ___ Synch ___ Induct. ___ Inverter |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|--|---|---|---|---|
| L - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems. | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye |
| 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. | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms |
| 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) <input type="checkbox"/> Yes <input type="checkbox"/> No |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|---|---|---|---|---|
| Q - Energy Storage (ES) System (For important sizing information related to DC-Coupled configurations, see sizing note below). | _____ Manufacturer _____ Model # _____ Quantity of Units |
| R - Lineside Tap Where is the point of interconnection in relation to the main breaker? PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information. | _____ Customer side _____ PG&E side |
| S – Warranty or Service Agreement Applicant has verified that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed “agreement” ensuring proper maintenance and continued system performance. | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No |
| T - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No |
| U - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements? | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|--|---|---|---|---|
| <p>V - Basic Single Line Diagram (SLD)</p> <p>If the interconnection is eligible to use a Basic SLD, please include the requested information.</p> <p>Can this system be used as a back-up generator?</p> <p>If so, please include the requested information for the back-up controller or other device.</p> | <p>Panel Voltage (Volts)</p> <hr/> <p>Main Breaker (Amps)</p> <hr/> <p>Storage Breaker Size (Amps)</p> <hr/> <p>_____ Yes _____ No</p> <p>Manufacturer</p> <hr/> <p>Make</p> <hr/> <p>Model No.</p> <hr/> | <p>Panel Voltage (Volts)</p> <hr/> <p>Main Breaker (Amps)</p> <hr/> <p>Storage Breaker Size (Amps)</p> <hr/> <p>_____ Yes _____ No</p> <p>Manufacturer</p> <hr/> <p>Make</p> <hr/> <p>Model No.</p> <hr/> | <p>Panel Voltage (Volts)</p> <hr/> <p>Main Breaker (Amps)</p> <hr/> <p>Storage Breaker Size (Amps)</p> <hr/> <p>_____ Yes _____ No</p> <p>Manufacturer</p> <hr/> <p>Make</p> <hr/> <p>Model No.</p> <hr/> | <p>Panel Voltage (Volts)</p> <hr/> <p>Main Breaker (Amps)</p> <hr/> <p>Storage Breaker Size (Amps)</p> <hr/> <p>_____ Yes _____ No</p> <p>Manufacturer</p> <hr/> <p>Make</p> <hr/> <p>Model No.</p> <hr/> |
| <p>W - Back-up Generator Operation</p> <p>Will the generator be operated as a back-up?</p> <p>If yes, please indicate control device.</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor <input type="checkbox"/> Breaker</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor <input type="checkbox"/> Breaker</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor <input type="checkbox"/> Breaker</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Automatic Transfer Switch</p> <p><input type="checkbox"/> Contactor <input type="checkbox"/> Breaker</p> |
| <p>X - Limited Export</p> <p>Will the generator export be limited?</p> <p>If yes, please indicate how export will be limited.</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Power Control System (PCS)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Power Control System (PCS)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Power Control System (PCS)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p> | <p>_____ Yes _____ No</p> <p><input type="checkbox"/> Power Control System (PCS)</p> <p><input type="checkbox"/> Relay</p> <p><input type="checkbox"/> Derated Inverter</p> |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|--|--|--|--|--|
| <p>Y - Telemetry</p> <p>Will the Generating Facility Gross Nameplate Rating exceed 1 MW?</p> <p>If yes, please select a Telemetry Option.</p> <p>If one of the Customer-owned Telemetry options is selected, please identify the preferred Site Metering Arrangement.</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Customer-owned Telemetry - Gateway <input type="checkbox"/> Customer-owned Telemetry - Aggregator <input type="checkbox"/> Mini RTU</p> <p><input type="checkbox"/> Customer-side net load metering</p> <p><input type="checkbox"/> Replace PG&E meter with a Mark V meter and terminal block <input type="checkbox"/> Add terminal block to existing PG&E Mark V meter <input type="checkbox"/> Replace meter socket with dual-socket meter cabinet for installation of customer-owned meter <input type="checkbox"/> Install customer-owned meter in existing dual socket meter cabinet.</p> | | | |
| <p>Z - Vehicle to Grid</p> <p>Will the inverter be located in the Electric Vehicle Supply Equipment (EVSE) or in the Electric Vehicle (EV) itself?</p> <p>If for the V2G AC Pilot, the EV includes the inverter, please provide EV details.</p> <p>If inverter is in the EVSE, please provide EVSE model manufacture year.</p> <p>If inverter is in the EVSE, is the EVSE newly installed?</p> <p>If inverter is in the EVSE, will the Generator participate in the Emergency Load Reduction Program (ELRP)?</p> <p>If yes, please provide ELRP Application Number.</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>_____ EV Make</p> <p>_____ EV Model</p> <p>_____ EV Year</p> <p>_____ EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>_____ Application #</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>_____ EV Make</p> <p>_____ EV Model</p> <p>_____ EV Year</p> <p>_____ EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>_____ Application #</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>_____ EV Make</p> <p>_____ EV Model</p> <p>_____ EV Year</p> <p>_____ EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>_____ Application #</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>_____ EV Make</p> <p>_____ EV Model</p> <p>_____ EV Year</p> <p>_____ EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>_____ Application #</p> |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

Energy Storage Charging Function:

Rated Charge Demand (Load): _____ kW

Estimated annual Net Energy Usage* of the energy storage device(s): _____ kWh

*Net Energy usage = (kWh input, including charging, storage device auxiliary loads and losses) – (kWh output including discharging)

Will the Distribution Grid be used to charge the storage device: Yes No

If no: Provide technical description of control systems including (e.g. Nationally-certified piece of equipment, Relays/metering):

Source of energy for Charging: _____

Mechanism to prevent charging from the Distribution System: _____

If Yes: Will charging the storage device(s) increase the host facility's existing peak load demand:

Yes No

If Yes: Provide the following loading information:

Amount of added peak demand: _____ kW

If no: Provide technical description of controls systems including:

Charging periods: _____

Mechanism to prevent charging from the Distribution System during host facility peak:

Expedited Interconnection Process Selection for Non-Export Energy Storage:

This project meets the requirements identified in Rule 21 Section N and this process is being selected for expedited interconnection.

Note on Sizing (DC-Coupled Configurations)

The size of the storage system in DC-coupled NEM-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 _____



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Advice 6609-E-A
Decision

Issued by
Meredith Allen
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

July 11, 2022



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July 11, 2022

Attachment 2

Redline Form Revisions



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

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

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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

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



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|--|---|---|---|---|
| L - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems. | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye | <input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye |
| 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. | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms | <input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <input type="checkbox"/> Ohms |
| N - Short Circuit Current Produced by Generator: | <input type="text"/> (Amps) | <input type="text"/> (Amps) | <input type="text"/> (Amps) | <input type="text"/> (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 | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 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? | <input type="text"/> Manufacturer <input type="text"/> Model # <input type="text"/> Rating (amps) <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="text"/> Manufacturer <input type="text"/> Model # <input type="text"/> Rating (amps) <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="text"/> Manufacturer <input type="text"/> Model # <input type="text"/> Rating (amps) <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="text"/> Manufacturer <input type="text"/> Model # <input type="text"/> Rating (amps) <input type="checkbox"/> Yes <input type="checkbox"/> No |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|---|---|---|---|---|
| Q - Energy Storage (ES) System (For important sizing information related to DC-Coupled configurations, see sizing note below). | _____ Manufacturer _____ Model # _____ Quantity of Units |
| R - Lineside Tap Where is the point of interconnection in relation to the main breaker? PG&E has special requirements for a lineside tap. Contact PG&E at: Rule21Gen@PGE.com for more information. | _____ Customer side _____ PG&E side |
| S – Warranty or Service Agreement Applicant has verified that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed “agreement” ensuring proper maintenance and continued system performance. | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No |
| T - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No |
| U - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements? | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No | ____ Yes ____ No |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|--|---|---|---|---|
| <p>Y - Telemetry</p> <p>Will the Generating Facility Gross Nameplate Rating exceed 1 MW?</p> <p>If yes, please select a Telemetry Option.</p> <p>If one of the Customer-owned Telemetry options is selected, please identify the preferred Site Metering Arrangement.</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Customer-owned Telemetry - Gateway <input type="checkbox"/> Customer-owned Telemetry - Aggregator <input type="checkbox"/> Mini RTU</p> <p><input type="checkbox"/> Customer-side net load metering <input type="checkbox"/> Replace PG&E meter with a Mark V meter and terminal block <input type="checkbox"/> Add terminal block to existing PG&E Mark V meter <input type="checkbox"/> Replace meter socket with dual-socket meter cabinet for installation of customer-owned meter <input type="checkbox"/> Install customer-owned meter in existing dual socket meter cabinet.</p> | | | |
| <p>Z - Vehicle to Grid</p> <p>Will the inverter be located in the Electric Vehicle Service-Supply Equipment (EVSE) or in the Electric Vehicle (EV) itself?</p> <p>If for the V2G AC Pilot, the EV includes the inverter, please provide Electric Vehicle details.</p> <p>If inverter is in the EVSE, please provide EVSE model manufacture year.</p> <p>If inverter is in the EVSE, is the EVSE newly installed?</p> <p>If inverter is in the EVSE, will the Generator participate in the Emergency Load Reduction Program (ELRP)?</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>Vehicle-EV Make</p> <p>Vehicle-EV Model</p> <p>EV Year</p> <p>EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Yes No</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>Vehicle-EV Make</p> <p>Vehicle-EV Model</p> <p>EV Year</p> <p>EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Yes No</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>Vehicle-EV Make</p> <p>Vehicle-EV Model</p> <p>EV Year</p> <p>EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Yes No</p> | <p><input type="checkbox"/> EVSE <input type="checkbox"/> EV</p> <p>Vehicle-EV Make</p> <p>Vehicle-EV Model</p> <p>EV Year</p> <p>EVSE Model Year</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Yes No</p> |



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

| Generator Information | Existing Generator type 1 | Existing Generator type 2 | New Generator type 1 | New Generator type 2 |
|--|---------------------------|---------------------------|----------------------|----------------------|
| <u>If yes, please provide ELRP Application Number.</u> | <u>Application #</u> | <u>Application #</u> | <u>Application #</u> | <u>Application #</u> |

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.



INTERCONNECTION APPLICATION (Form 79-1174-02)

ATTACHMENT H

ENERGY STORAGE TECHNOLOGY

For example:

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

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

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
Braun Blasing Smith Wynne, P.C.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

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

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

Chevron Pipeline and Power
City of Palo Alto

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

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

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

GenOn Energy, Inc.
Goodin, MacBride, Squeri, Schlotz &
Ritchie
Green Power Institute
Hanna & Morton
ICF
International Power Technology

Intertie

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
McClintock IP
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

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

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Stoel Rives LLP

Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

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