

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE



February 27, 2020

Advice Letter 5754-E

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

SUBJECT: Clean-Up of Agricultural Rate Schedules

Dear Mr. Jacobson:

Advice Letter 5754-E is effective as of March 1, 2020.

Sincerely,

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

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



February 4, 2020

Advice 5754-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Clean-Up of Agricultural Rate Schedules

Purpose

The purpose of this advice letter is to clean-up PG&E's Agricultural Electric Rate Schedules AG-1, AG-4, AG-5, AG-R and AG-V, by consolidating tariff language that has already been submitted and approved by the Commission. Also, various electric sample forms are being revised to include references to the new agricultural rate schedules with modified Time-Of-Use (TOU) periods that were adopted in Advice 5708-E.

Background

- On December 9, 2019 PG&E submitted Advice 5708-E - *Implementation of the New Agricultural Rate Schedules with Later Time-of-Use Hours Pursuant to Decisions 18-08-013 and 19-05-010*, which was approved by the Commission on January 10, 2020 with an effective date of March 1, 2020. Advice 5708-E was filed with July 1, 2019 illustrative rate values. PG&E will file a separate advice letter prior to March 1, 2020 to include updated March 1, 2020 rate values for the new series of agricultural rate schedules with later TOU periods.
- On December 9, 2019 PG&E submitted Advice 5709-E - *Implementation of New Non-Residential Time-of-Use (TOU) Periods and the Transition of Agricultural (Ag) Customers from Legacy Rate Schedules to New TOU Rate Schedules in Compliance with Decision (D.) 18-08-013 and (D.)19-05-010*, which was approved by the Commission on January 10, 2020 with an effective date of March 1, 2020.
- On December 27, 2019 PG&E submitted Advice 5727-E - *January 1, 2020, Electric Rate Changes* as a Tier 1 advice letter with an effective date of January 1, 2020.

This advice letter is being submitted to clean-up PG&E's Agricultural Electric Rate Schedules AG-1, AG-4, AG-5, AG-R and AG-V, by consolidating tariff language that has already been submitted and approved by the Commission in Advice 5709-E and Advice 5727-E. As a result of the timing of the approval process, the agricultural rate sheets found in Advice 5727-E are being re-numbered to align with the sheets that were submitted in Advice 5709-E. The revision symbols on the right-hand margin of the tariff sheets will have the "L" designation to represent a location change, which will be effective March 1, 2020, consistent with Advice 5709-E.

PG&E is not expecting a regular electric rate change on March 1, 2020. The rate values for the legacy agricultural rate schedules shown on the tariff pages filed herein based on rate values effective January 1, 2020 will therefore also be the correct rate values for the effective date of March 1, 2020 requested for this advice letter.

In Attachment 2 of Advice 5708-E, PG&E provided a list of tariffed sample forms that would need to be revised to include references to the new agricultural rate schedules, once they were adopted. In this advice letter, PG&E is updating the forms that were listed with the exception noted below.

In PG&E's Advice 5634-E – *PG&E's Proposed Changes to Load Aggregation in Schedules NEM and NEM2 to Allow for Customer-Attested Expected Future Load*, PG&E proposed to eliminate the rate selection matrix on various forms including the two listed below which were also included in Attachment 2 of Advice 5708-E. Given that PG&E will be eliminating the rate matrix on the forms, there is no need at this time to add the newly adopted agriculture rate schedule to the forms and these forms are being excluded from this advice letter.

- Form 79-1151A *Agreement And Customer Authorization Net Energy Metering For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less*
- Form 79-1193 *Agreement and Customer Authorization Net Energy Metering Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less Paired with Energy Storage of 10 Kilowatts or Less*

Tariff Revisions

PG&E is proposing to revise the following tariffs:

- Renumber of rate sheets for Electric Schedule AG-1, AG-4, AG-5, AG-R and AG-V.
- Addition of references to new agricultural rate schedules that were adopted in Advice 5708-E to the following Electric Sample Forms:

- Form 79-1039 *Rate Schedule Selection Customer Agreement*
- Form 79-1111 *Optimal Billing Period Service Election Form*
- Form 79-1131 *NEMV Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less*
- Form 79-1131-02 *NEM2V Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less*
- Form 79-1142 *NEMV Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less*

Minor revisions to the tariffs may have been made to remove obsolete language, correct typos, and to update language consistent with current practices. The affected tariff sheets are listed on the enclosed Attachment 1. For the convenience of the reader, PG&E has provided redline version of the revised Electric Sample Forms in Attachment 2. In addition, a complete set of the Electric Schedules AG-1, AG-4, AG-5, AG-R and AG-V that will become effective March 1, 2020 have been included in Attachment 3.

The revisions in this advice letter are revisions in compliance with specific requirements of a statute or Commission order and will not increase any current rate or charge, cause the withdrawal of service, or conflict with any rate schedule.

Protests

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than February 24, 2020, which is 20 days after the date of this submittal. Protests must be submitted to:

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

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

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

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

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

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

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

Effective Date

Pursuant to General Order (GO) 96-B, Rule 5.1, this advice letter is submitted with a Tier 1 designation. PG&E requests that this Tier 1 advice submittal become effective on March 1, 2020 which is consistent with Advice 5708-E and 5709-E.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service list for R.15-12-012, A.16-06-013, and A.18-11-013. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

Erik Jacobson
Director, Regulatory Relations

Attachments

cc: Service List(s): R.15-12-012, A.16-06-013, A.18-11-013



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) #: 5754-E

Tier Designation: 1

Subject of AL: Clean-Up of Agricultural Rate Schedules

Keywords (choose from CPUC listing): Compliance

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

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

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

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

Confidential treatment requested? ☐ Yes ☒ No

If yes, specification of confidential information:

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

Resolution required? ☐ Yes ☒ No

Requested effective date: 3/1/20

No. of tariff sheets: 26

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

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

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

Tariff schedules affected: See Attachment 1

Service affected and changes proposed¹: N/A

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

¹Discuss in AL if more space is needed.

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

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

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

Name:
Title:
Utility Name:
Address:
City:
State: 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.
46143-E	Electric Sample Form No. 79-1039 Rate Schedule Selection Customer Agreement Sheet 1	45532-E
46144-E	ELECTRIC SAMPLE FORM 79-1111 OPTIMAL BILLING PERIOD SERVICE ELECTION FORM Sheet 1	45539-E
46145-E	ELECTRIC SAMPLE FORM 79-1131 NEMV APPLICATION AND INTERCONNECTION AGREEMENT FOR A SOLAR (PV) OR WIND GENERATING FACILITY OF 1 MW OR LESS Sheet 1	45540-E
46146-E	Electric Sample Form No. 79-1131-02 NEM2V Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Sheet 1	45541-E
46147-E	ELECTRIC SAMPLE FORM 79-1142 NEMV INTERCONNECTION APPLICATION FOR A RENEWABLE ELECTRICAL GENERATION FACILITY OF 1 MEGAWATT OR LESS Sheet 1	45542-E
46148-E	ELECTRIC SCHEDULE AG-1 AGRICULTURAL POWER Sheet 5	45927-E
46149-E	ELECTRIC SCHEDULE AG-1 AGRICULTURAL POWER Sheet 6	45928-E
46150-E	ELECTRIC SCHEDULE AG-1 AGRICULTURAL POWER Sheet 9	45929-E
46151-E	ELECTRIC SCHEDULE AG-4 TIME-OF-USE AGRICULTURAL POWER Sheet 6	45930-E
46152-E	ELECTRIC SCHEDULE AG-4 TIME-OF-USE AGRICULTURAL POWER Sheet 9	45931-E
46153-E	ELECTRIC SCHEDULE AG-4 TIME-OF-USE AGRICULTURAL POWER Sheet 10	45932-E
46154-E	ELECTRIC SCHEDULE AG-4 TIME-OF-USE AGRICULTURAL POWER Sheet 15	45933-E
46155-E	ELECTRIC SCHEDULE AG-5 LARGE TIME-OF-USE AGRICULTURAL POWER Sheet 7	45934-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
46156-E	ELECTRIC SCHEDULE AG-5 LARGE TIME-OF-USE AGRICULTURAL POWER Sheet 10	45935-E
46157-E	ELECTRIC SCHEDULE AG-5 LARGE TIME-OF-USE AGRICULTURAL POWER Sheet 15	45936-E
46158-E	ELECTRIC SCHEDULE AG-R SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER Sheet 6	45937-E
46159-E	ELECTRIC SCHEDULE AG-R SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER Sheet 7	45938-E
46160-E	ELECTRIC SCHEDULE AG-R SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER Sheet 11	45939-E
46161-E	ELECTRIC SCHEDULE AG-V SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER Sheet 6	45940-E
46162-E	ELECTRIC SCHEDULE AG-V SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER Sheet 7	45941-E
46163-E	ELECTRIC SCHEDULE AG-V SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER Sheet 12	45942-E
46164-E	ELECTRIC TABLE OF CONTENTS Sheet 1	46129-E
46165-E	ELECTRIC TABLE OF CONTENTS Sheet 7	46084-E
46166-E	ELECTRIC TABLE OF CONTENTS Sheet 27	45669-E
46167-E	ELECTRIC TABLE OF CONTENTS Sheet 28	45670-E
46168-E	ELECTRIC TABLE OF CONTENTS Sheet 29	46103-E



**Pacific Gas and
Electric Company®**

U 39

San Francisco, California

Cancelling Revised
Revised

Cal. P.U.C. Sheet No. 46143-E
Cal. P.U.C. Sheet No. 45532-E

Electric Sample Form No. 79-1039
Rate Schedule Selection Customer Agreement

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5754-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted February 4, 2020
Effective March 1, 2020
Resolution _____

RATE SCHEDULE SELECTION CUSTOMER AGREEMENT

I wish to be billed under the optional rate schedule(s) as listed. I agree to the terms and conditions as described in the rate schedule tariff and as follows:

- I hereby grant to PG&E, its employees, agents or contractors, reasonable access at reasonable times to install, remove, repair and inspect the metering equipment.
- I understand that I can only change my rate schedule in accordance with Electric Rule 12.
- The chosen rate schedule will commence on the next regular meter reading date or meter installation or reprogramming date following PG&E's receipt of Rate Schedule Selection Customer Agreement.

STEP 1: SELECT YOUR DESIRED RATE SCHEDULE

Please provide information for each Service Agreement and meter for which you are seeking a rate change (see sample on page 2 for assistance). Descriptions of rate options and tariffs can be found at www.pge.com/rateoptions and www.pge.com/tariffs. Information about rate options and copies of rate schedule tariffs are also available upon request by calling 1-800-743-5000.

Rate Selection

- For Gas Rate Selection Complete Shaded Area Only
- For Electric Rate Selection Complete All Applicable Area

				Peak Day Pricing (PDP) Program Options				
				AG Only	Select Capacity Reservation Level		Select Event Frequency	
Service Agreement (Service ID#)	Meter #	Desired Rate	Business Description	Motor HP connected to Meter	Elect kW Value	Default	Unlimited	Alternate

STEP 2: SIGN BELOW AND PROVIDE REQUIRED CONTACT INFORMATION

I am requesting the above rate schedule selection(s) and agree to the terms and conditions as outlined in Page 1 of this agreement and in the tariffs.

Customer or Authorized Agent:

(Signature)

(Print Name)

(Title)

(Date)

(Telephone Number)

(Name on Account)

(Mailing Street Address)

(Mailing City, State, ZIP)

STEP 3: MAIL COMPLETED FORM TO PG&E

Please return signed form to: Pacific Gas And Electric Company, PO Box 8329, Stockton CA 95208-0329

RATE SCHEDULE SELECTION CUSTOMER AGREEMENT

SAMPLE RATE SELECTION – FOR REFERENCE ONLY

- For Gas Rate Selection Complete Shaded Area Only
- For Electric Rate Selection Complete All Applicable Area

SAMPLE RATE SELECTION – FOR REFERENCE ONLY					Peak Day Pricing (PDP) Program Options				
<ul style="list-style-type: none">For Gas Rate Selection Complete Shaded Area OnlyFor Electric Rate Selection Complete All Applicable Area					AG Only ³	Select Capacity Reservation Level ⁴		Select Event Frequency ⁵	
						Elect kW Value	Default	Unlimited	Alternate
Service Agreement (Service ID#)	Meter #	Desired Rate	Business Description ²	Motor HP connected to Meter					
1234567890	1001234567	B-10	Title Office						
0987654321	1001234568	B-1	Retail Furniture Store				X		
4567891234	1001567890	AG A1	Irrigation Field Pump	10					
7890123456	1002345678	GNR-1 ¹	House Meter –Swimming Pool						

Notes:

- For Gas Rate Selection complete first four columns only (Service Agreement, Meter #, Desired Rate & Business Description).
- Describe what each meter serves (e.g., Pasture Flood Irrigation, Retail Clothing Store, House).
- Agricultural (AG) Rates Schedules only
 - For motor installations, list the total horsepower rating of the motor(s) associated with the meter
- Capacity Reservation Level: Level of capacity (kW) excluded from PDP participation.
 - Schedules E-19, E-20, and AG-5: Customer Defined or Default (equal to 50% of the customer's average maximum peak-period demand over the previous 6 summer months).
- Event Frequency: Frequency of participation in an event.
 - Applies only to Schedules A-1TOU (A-1X), A-6, A-10TOU & AG-4: Unlimited (every event) or Alternate (every other event)
 - Applies only to Schedules E-19, E-20 & AG-5: Unlimited only.
- This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.



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U 39

San Francisco, California

Revised
Cancelling Revised

Cal. P.U.C. Sheet No. 46144-E
Cal. P.U.C. Sheet No. 45539-E

ELECTRIC SAMPLE FORM 79-1111
OPTIMAL BILLING PERIOD SERVICE ELECTION FORM

Sheet 1

**Please Refer to Attached
Sample Form**

Advice 5754-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

<i>Submitted</i>	<u>February 4, 2020</u>
<i>Effective</i>	<u>March 1, 2020</u>
<i>Resolution</i>	<u></u>

OPTIMAL BILLING PERIOD SERVICE ELECTION FORM

The undersigned Customer hereby acknowledges and agrees to all terms and conditions specified.

1. Eligibility

Customers taking service on PG&E's Schedule AG, "Time-of-Use Agricultural Power", Rate AG-C, Schedule E-19 or B-19, "Medium General Demand Metered Time-of-Use Service," or Schedule E-20 or B-20, "Service to Customers with Maximum Demands of 1,000 Kilowatts or More," may elect the Optimal Billing Period (OBP) service, subject to program availability, and the qualifying eligibility terms and conditions specified below and in the applicable tariffs.

2. By electing the Optimal Billing Period (OBP) service, customer declares it has reviewed and meets all eligibility requirements as described in the customer's applicable electric rate schedules: PG&E's electric rate Schedule AG, Special Condition 16 – *Optimal Billing Period Service*, PG&E's electric rate Schedule E-19 or B-19, Special Condition 20 – *Optimal Billing Period Service*, or in PG&E's electric rate Schedule E-20 or B-20, Special Condition 18 – *Optimal Billing Period Service*.

3. Terms and Conditions

The initial term of this Agreement shall be for a period of one (1) year from the date executed by PG&E. This Agreement shall continue thereafter for successive terms of one (1) year, provided, however, that either party shall have the right to terminate this Agreement at the expiration of the initial one (1) year term or anytime thereafter upon thirty (30) days written notice to the other party. However, if a customer terminates this agreement between anniversary dates, there shall be no entitlement to a refund for any portion of the most recent OBP fee payment to PG&E. Once terminated, the Customer will not be eligible for OBP service for twelve (12) months from the termination date. Should this OBP program terminate, PG&E reserves the right to terminate all Agreements upon the expiration date of the OBP service.

4. Designation of Subject Months

The Customer designates the six consecutive months of _____, _____, _____, _____, _____, and _____ as the high seasonal optimal billing period.

5. Annual Qualification

Customers must continue to meet the eligibility requirements stated in Section 1, above, to qualify for OBP service in subsequent one-year term(s).

6. Customer Notification to PG&E

The customer must notify PG&E via email and shall state in its subject line "OBP Notification" of its elected production start and/or end dates of the OBP service. The designation may not be implemented if it is not received or if it does not contain the specified information. A participating customer must email PG&E at least seventy-two (72) hours in advance of elected date(s). The customer should send emails to the following address: OptimalBillingNotifi@pge.com.



OPTIMAL BILLING PERIOD SERVICE ELECTION FORM

7. Commission Jurisdiction

This Agreement and PG&E's tariffs shall all times be subject to such changes or modifications by the California Public Utilities Commission (Commission) as said Commission may direct, from time to time, in the exercise of its jurisdiction.

THEREFORE, being a duly authorized representative of the Customer, I certify that I have read the foregoing and understand and agree to all terms and conditions.

Executed this _____ day of _____, _____.

BY:

Customer or Business Name

Signature

Type or print name

Title

Date

BY:

PACIFIC GAS & ELECTRIC COMPANY

Signature

Type or print name

Title

Date



ELECTRIC SAMPLE FORM 79-1131

Sheet 1

NEMV APPLICATION AND INTERCONNECTION AGREEMENT FOR A SOLAR
(PV) OR WIND GENERATING FACILITY OF 1 MW OR LESS

**Please Refer to Attached
Sample Form**



Pacific Gas and
Electric Company®

NEMV

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

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

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

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

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

A. Applicability and Purpose:

This *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less* (Agreement) applies to electric rate schedule NEMV—*Virtual Net Energy Metering For A Multi-Tenant And Multi-Meter Property Served At The Same Service Delivery Point* for the Owner or designated agent of the Owner (Owner) who interconnects a single solar photovoltaic and/or wind generating facility sized no larger than for the energy requirements of all eligible Benefitting Accounts (as defined in Schedule NEMV) of the past year but with a maximum total size of no larger than one MW or 1,000 kW (Renewable Electric Generation Facility) that is located at a Single Delivery Point¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEMV, that meets all the applicability requirements in Schedule NEMV, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System.

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

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

Guidelines and Steps for Interconnection

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

B. NEM Transition

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

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

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

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

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

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

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

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

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

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

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

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

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf

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

Part II – Selecting the Study Process

Please check one:

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

Part III – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

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

Interconnections on PG&E's Secondary Network

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

Meter Access

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

Smart Inverters

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

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

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <http://www.gosolarcalifornia.org/equipment/inverters.php>.)

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017,
- (b) the Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application¹² no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

Document and Fee Requirements

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

Stale Agreements

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

² A complete application consists all of the following without deficiencies:

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

Agreement Package:

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

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including completed Appendices A, B and C**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E-20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the Applicability Section of NEMV, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEMV Generating Facility location:

³ The CEC's eligible equipment list can be found under the CSI heading at: www.consumerenergycenter.org/erprebate/equipment.html

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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

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

Insuring Company's Name: _____

Insurance Policy # _____

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

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

Internet Agreement Forms

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

Part IV – General Facility

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

Date: _____

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

☐ Yes

If yes, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

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

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

☐ Yes

If yes, what program are you on? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes

☐ No. Reason: _____

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

Location: _____

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

☐ Yes - What restriction? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes.

☐ No.

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

☐ Yes - Describe: _____

☐ No.

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

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

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

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

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

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

Duration _____

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

- ☐ Yes
- ☐ No

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

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

- ☐ Yes
- ☐ No

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

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ⁴ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

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

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

D. Wind Turbine Equipment (if applicable)

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating kW (per unit) ⁶	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁷	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

E. Service Panel Short Circuit Interrupting Rating

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

F. Maximum 3-Phase Fault Current Contribution

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

G. Notices - Mailing Instructions and Assistance:

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

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

⁴ The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

⁵ The total capacity is the PV panel rating times the quantity.

⁶ For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

⁷ The total capacity is the PV panel (or wind turbine) rating times the quantity.

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

H . Governing Law

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

I . Term of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. This Agreement shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMV.

J . Governing Authority

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

K. Appendix A, Appendix B and Appendix C

Attached to this agreement are:

- *Appendix A - Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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

Appendix A – Designation of NEMV Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

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

Section 1 Instructions

- a. Complete the section below (this information must match the Owner information on the associated *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Serving Multi-Tenant And Multi-Meter Property* for the same NEMV Renewable Electric Generation Facility.

Owner Name	Address	Date

- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 2 or 3(g)?

- ☐ This application is for an allocation for the initial, new NEMV Arrangement:
- ☐ This application is for a reallocation for an existing NEMV Arrangement:

- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEMV tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
 Is this a reallocation of an existing NEMV Arrangement? ☐ Yes ☐ N

Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load

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

Address of Generator _____

In accordance with Schedule NEMV, I, Owner warrant that:

- 1) the Generator Account associated with this NEMV agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEMV Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all or the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____

Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E GIS contact information when sending this form to Applicant].

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

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



Electric Sample Form No. 79-1131-02

Sheet 1

NEM2V Application and Interconnection Agreement for a Solar (PV)
or Wind Generating Facility of 1 MW or Less

**Please Refer to Attached
Sample Form**



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

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

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

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

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

A. Applicability and Purpose:

This *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility* (Agreement) applies to electric Rate Schedule NEM2V—*Virtual Net Energy Metering Service* for a multi-tenant or multi-meter Eligible NEM2V installation on a single Premises, as defined in Electric Rule 1 for the Owner or designated agent of the Owner (Owner) who interconnects a single solar photovoltaic and/or wind generating facility sized no larger than for the energy requirements of all eligible Benefitting Accounts (as defined in Schedule NEM2V) of the past year (Renewable Electric Generation Facility) that is on a single Premises, as defined in Electric Rule 1¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEM2V, that meets all the applicability requirements in Schedule NEM2V, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Electric System.

The purpose of this Agreement is to allow the Owner to interconnect the Renewable Electric Generation Facility with PG&E's Electric System, subject to the provisions of this Agreement and PG&E's Rate Schedule NEM2V. Owner has elected to interconnect and operate its Renewable Electric Generation Facility in parallel with PG&E's Electric System, primarily to offset part or all of the NEM2V Arrangement's own electrical requirements of the Benefitting Accounts at the affiliated service on a as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

Note: If this application is for a Renewable Electric Generation Facility with a generator type that is other than solar (PV) and wind covered in Schedule NEM2V, please use Application "*Rule 21 Generator Interconnection Application*" (Form 79-1174-02).

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E to initiate PG&E's interconnection review of the proposed Generating Facility.

¹ From Electric Rule 2, a PREMISES is defined as all of the real property and apparatus employed in a single enterprise on an integral parcel of land undivided, excepting in the case of industrial, agricultural, oil field, resort enterprises, and public or quasi-public institutions, by a dedicated street, highway or public thoroughfare or railway. Automobile parking lots constituting a part of and adjacent to a single enterprise may be separated by an alley from the remainder of the Premises served..



NEM2V

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

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

- ☐ A New NEM2V Renewable Electric Generation Facility interconnection (at an existing service).
- ☐ For Physical/Electrical Changes to an interconnected NEM2V Renewable Electric Generation Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEM2V interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Eligible Energy Generation Credits under NEM2V for an Existing Renewable Electric Generation Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEM2V accounts.

Special Condition 6 of Schedule NEM2V requires that any Customer with an existing generating facility and meter who enters into a new NEM2V agreement shall complete and submit a copy of Form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

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

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

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

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

**NEM2V***Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less***F. Other Contact Information** (This information is optional).

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

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

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf

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

Part II – Selecting the Study Process

Please check one:

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

Part III – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

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

Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM2V Owner's Renewable Electric Generation Facility. **Please contact Electric Generation Interconnection by email nemvgen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter Access

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

Smart Inverters

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

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

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <http://www.gosolarcalifornia.org/equipment/inverters.php>.)

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application² no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

² A complete application consists all of the following without deficiencies:

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

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

Document and Fee Requirements

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

Stale Agreements

If this agreement is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEM2V.

CEC Listed

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

Interconnection Fees

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

A. Agreement Package:

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

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including completed Appendices A, B and C**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E-20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Electric System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEM2V Eligible Renewable Electric Generation Facility and utility's Electric System.



- b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEM2V customers may be able to combine the generator output meter with an incentive meter. See Schedule NEM2V for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings on a single Premises that will be included as part of the NEM2V Arrangement that is located on a single Premises and satisfies the requirements in the Applicability Section of NEM2V, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.
 4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEM2V Generating Facility location:

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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

- ☐ I **have** insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEM2V Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

- ☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule NEM2V Generating Facility location.

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

³ The CEC's eligible equipment list can be found under the CSI heading at: www.consumerenergycenter.org/erprebate/equipment.html



NEM2V

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

6. Schedule NEM2V may include charges where applicable, including but not limited to that in Special Conditions: 1 (metering), 2 (one-time set-up or modification charges) and/or 3 (demand credit set-up charges).
7. **Appendix C Site Assessment Documentation** as described in the cover sheet for Appendix C.

Internet Agreement Forms

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

Part IV – General Facility

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

Date: _____

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

☐ Yes

If yes, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

☐ Yes If yes, check all that apply:

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

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

Qualified Customers are eligible for the same demand response programs and solar tariffs as NEM customers. Demand response payments to Qualified Customers will be based on the Qualified Customer's metered usage disregarding any contributions from virtually net-metered generation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) should also exclude from consideration any impacts of NEM2V generation.

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

☐ No.

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

☐ Yes

☐ No. Reason: _____

If after review of a customer's NEM2V application PG&E determines a site assessment is essential, then PG&E may conduct a site assessment. Please note that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.

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

☐ Yes

☐ No. Reason: _____



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

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

Location: _____

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

- ☐ Yes - What restriction? _____
- ☐ No.

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

- ☐ Yes
- ☐ No. Reason: _____

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

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

- ☐ Yes.
- ☐ No.

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

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

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

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

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

Duration _____



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

- ☐ Yes
☐ No

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

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

- ☐ Yes
☐ No

Part V – Description of the Generating Facilities

Use additional sheets, if necessary.

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ⁴ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

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

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

⁴ The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

⁵ The total capacity is the PV panel rating times the quantity.



2

D. Wind Turbine Equipment (if applicable)

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating kW (per unit) ⁶	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁷	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

E. Service Panel Short Circuit Interrupting Rating

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

F. Maximum 3-Phase Fault Current Contribution

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

G. Notices - Mailing Instructions and Assistance:

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

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

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

H. Governing Law

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

I. Term of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. This Agreement shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEM2V.

⁶ For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

⁷ The total capacity is the PV panel (or wind turbine) rating times the quantity.



J . Governing Authority

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

K . Warranties or Service Agreements

Customer-Generator certifies as a part of this interconnection request for NEM2 that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.

L. Appendix A, Appendix B and Appendix C

Attached to this agreement are:

- *Appendix A - Designation of NEM2V Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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



Appendix A – Designation of NEM2V Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

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

Section 1 Instructions

- a. Complete the section below (this information must match the Owner information on the associated *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Serving Multi-Tenant And Multi-Meter Property* for the same NEM2V Renewable Electric Generation Facility.

Owner Name	Address	Date

- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEM2V Arrangement or for a change to the Allocation for an existing NEM2V facility, as described in either NEM2V Special Condition 2 or 3(g)?
- ☐ This application is for an allocation for the initial, new NEM2V Arrangement:
- ☐ This application is for a reallocation for an existing NEM2V Arrangement:
- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEM2V. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable single Premises requirements in the NEM2V Applicability Section to be Eligible for Schedule NEM2V.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEM2V Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEM2V Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** "system operator/qualified customer" has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEM2V tariff this is referred to as the "Default Account."
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

**NEM2V***Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less***Section 2**

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEM2V Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
Is this a reallocation of an existing NEM2V Arrangement? ☐ Yes ☐ N



Pacific Gas and
Electric Company®

NEM2V

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

Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load

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

Address of Generator _____

In accordance with Schedule NEM2V, I, Owner warrant that:

- 1) the Generator Account associated with this NEM2V agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEM2V Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all of the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____



Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E EGI contact information when sending this form to Applicant].

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

Note: If after review of a customer's NEM2V application PG&E determines a site assessment is needed, then PG&E may conduct a site assessment. Owners are reminded that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.



ELECTRIC SAMPLE FORM 79-1142
NEMV INTERCONNECTION APPLICATION FOR A RENEWABLE
ELECTRICAL GENERATION FACILITY OF 1 MEGAWATT OR LESS

Sheet 1

**Please Refer to Attached
Sample Form**



Pacific Gas and
Electric Company®

NEMV

Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less

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

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

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

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

A. Applicability and Purpose:

This *NEMV Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less* (Application) applies to electric rate schedule NEMV—*Virtual Net Energy Metering For A Multi-Tenant Or Multi-Meter Property Served At The Same Service Delivery Point* for the Owner or designated agent of the Owner (Owner) who interconnects a Renewable Electrical Generation Facility sized no larger than for the energy requirements of all eligible Benefitting Accounts (as defined in Schedule NEMV) of the past year but with a maximum total size of no larger than one megawatt or 1,000 kilowatts (Renewable Electric Generation Facility) that is located at a Single Delivery Point¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEMV, that meets all the applicability requirements in Schedule NEMV, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System.

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

Note: If this application is for a Renewable Electric Generation Facility with a generator type that is solar (PV) and/or wind, please use Application form 79-1131.

B. Guidelines and Steps for Interconnection

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

C. NEM Transition

Customers receiving service on the current NEMV tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier, are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedules NEM and NEMV at https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEM.pdf and https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEMV.pdf for more details.

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

Please complete this agreement in its entirety

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

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

Special Condition 6 of Schedule NEMV requires that any Customer with an existing generating facility and meter who enters into a new NEMV Agreement (Form 79-1137) shall complete and submit a copy of form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

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

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

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

Contractor	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
<input type="checkbox"/> This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this Application.			

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

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
<input type="checkbox"/> This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this Application.			

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

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

Part II – Selecting the Study Process

Please check one:

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

Part III – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

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

Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to

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

Meter access

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

Smart Inverters

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

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

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <http://www.gosolarcalifornia.org/equipment/inverters.php>.)

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application² no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

Document and Fee Requirements

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

² A complete application consists all of the following without deficiencies:

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

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Stale Applications

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

A. Application Package:

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

Required Documents for New Applicants:

1. A completed copy of this **Application, including completed Appendices A, B and C as well as the Supplemental Data Collection Form (see Part I Section B above).** *Please note:* the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Application, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)**, if any, used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the generator manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified equipment will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote below). For generator equipment that is not CEC certified, Applicant may need to provide additional information and/or documentation at PG&E's request.
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the

³ The CEC's eligible equipment list can be found under the CSI heading at: www.consumerenergycenter.org/erprebate/equipment.html
Please complete this agreement in its entirety

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

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

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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

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

Insuring Company's Name: _____

Insurance Policy # _____

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

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

Internet Application Forms

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

Part IV – General Facility

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

Date: _____

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

☐ Yes

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

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

Please complete this agreement in its entirety

☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

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

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

☐ Yes

If yes, what program are you on? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes

☐ No. Reason: _____

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

Location: _____

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

☐ Yes - What restriction? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes.

☐ No.

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

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

Page 7 of 11
Form 79-1142
Advice 5754-E
February 2020

- ☐ Yes - Describe: _____
- ☐ No

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

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

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

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

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

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

Duration _____

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

- ☐ Yes
- ☐ No

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

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

- ☐ Yes
- ☐ No

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

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

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

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

Please complete this agreement in its entirety

B. Generating Equipment

List all the equipment that will be interconnected to PG&E for this NEMV Arrangement:

1. Generation Equipment Detailed Description

NEMV Type of Generation Equipment - Table B.1 (see row 2 below)		
1. biomass	2. geothermal	3. municipal solid waste
4. solar thermal	5. fuel cell	6. landfill gas
7. small hydroelectric generation	8. ocean wave	9. digester gas
10. ocean thermal	11. tidal current	

Generating Equipment Description - Table B.2						
		Generator type 1	Generator Type 2	Generator Type 3	Generator Type 4	Generator Type 5
a	Is the Generator new or existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing
b	Number of Type of NEMV generation (from Table B.1)					
c	Please indicate the quantity of each "type" of Generators being installed:					
d	Generator Manufacturer					
e	Generator Model					
f	Is the Generator CEC certified?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
g	Generator Design	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter
h	Generator Gross Nameplate Rating					
i	Generator Operating Voltage					
j	Inverter (if any) Manufacturer					
k	Inverter (if any) Model					
l	Is the Inverter (if any) CEC certified?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
m	Inverter (if any) Gross Nameplate Rating					
n	Inverter (if any) Generator Operating Voltage					
o	Power Factor rating (if applicable)					
p	PF Adjustment Range (if applicable)					

2. Generator Account's otherwise-applicable rate schedule under the provisions of Schedule NEMV will be _____.

3. If the date of the permits allowing the Customer-Generator to commence construction of the Generating Facility is prior to January 1, 2003, please provide the date the permits were issued: _____.

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

C. Service Panel Short Circuit Interrupting Rating

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

D. Maximum 3-Phase Fault Current Contribution

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

E. Notices - Mailing Instructions and Assistance:

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

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

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

F. Governing Law

This Application shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

G. Term of Application

After receipt of all applicable fees, required documents, and this completed Application, this Application shall become effective on the date of PG&E issues the permission to operate letter. This Application shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMV.

H. Governing Authority

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

I. Appendix A, Appendix B and Appendix C

Attached to this Application are:

- *Appendix A - Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B –Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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

Appendix A – Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation

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

Section 1 Instructions

- 1) Complete the section below (this information must match the Owner information on the attached Application).

Owner Name	Address	Date

- 2) Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 2 or 3(g)?
- ☐ This application is for an allocation for the initial, new NEMV Arrangement
- ☐ This application is for a reallocation for an existing NEMV Arrangement:
- 3) Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to Rule21gen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefiting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEMV tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for this instruction page). Also indicate on one of the pages if the allocation is for a new Arrangement, or an existing Arrangement.

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
 Is this a reallocation of an existing NEMV Arrangement? __ Yes __ N

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load

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

Address of Generator _____

In accordance with Schedule NEMV, I, Owner warrant that:

- 1) the Generator Account associated with this NEMV Application is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEMV Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all or the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____

Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E GIS contact information when sending this form to Applicant.]

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below)
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

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



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 5

2. TERRITORY: Schedule AG-1 applies everywhere PG&E provides electricity service. (L)
3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

	Rate A	Rate B	
Total Customer Charge Rates (\$ per meter per day)	\$0.57400	\$0.76313	
Total Demand Rates (\$ per kW)			
Connected Load Summer	\$9.07	—	
Connected Load Winter	\$1.73	—	
Maximum Demand Summer	—	\$13.26	
Maximum Demand Winter	—	\$2.67	
Primary Voltage Discount Summer	—	\$1.39	
Primary Voltage Discount Winter	—	\$0.37	
	—		
Total Energy Rates (\$ per kWh)			
Summer	\$0.31164	\$0.26695	
Winter	\$0.24126	\$0.20872	(L)

(Continued)



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 6

3. RATES: Total bundled service charges shown on customers' bills are unbundled according to the (L)
(Cont'd.) component rates shown below

UNBUNDLING OF TOTAL RATES

Customer Charge Rates: Customer charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand Rate by Components (\$ per kW)	Rate A	Rate B
Generation:		
Connected Load Summer	\$1.56	—
Connected Load Winter	\$0.00	—
Maximum Demand Summer	—	\$2.35
Maximum Demand Winter	—	\$0.00
Primary Voltage Discount Summer	—	\$0.87
Primary Voltage Discount Winter	—	\$0.00
Distribution**:		
Connected Load Summer	\$7.51	—
Connected Load Winter	\$1.73	—
Maximum Demand Summer	—	\$10.91
Maximum Demand Winter	—	\$2.67
Primary Voltage Discount Summer	—	\$0.52
Primary Voltage Discount Winter	—	\$0.37
Energy Rate by Components (\$ per kWh)		
Generation		
Summer	\$0.11331	\$0.11707
Winter	\$0.09188	\$0.09242
Distribution**		
Summer	\$0.15122	\$0.10369
Winter	\$0.10227	\$0.07011
Transmission*	\$0.02202	\$0.02202
Transmission Rate Adjustments*	\$0.00314	\$0.00314
Reliability Services*	(\$0.00041)	(\$0.00041)
Public Purpose Programs	\$0.01397	\$0.01305
Nuclear Decommissioning	\$0.00088	\$0.00088
Competition Transition Charges	\$0.00096	\$0.00096
Energy Cost Recovery Amount	(\$0.00057)	(\$0.00057)
DWR Bond	\$0.00580	\$0.00580
New System Generation Charge**	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000

- * Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.
 ** Distribution and New System Generation Charges are combined for presentation on customer bills.
 *** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 9

9. SEASONS: Summer season begins on May 1 and ends on October 31. (L)

10. BILLING: A customer's bill is calculated based on the option applicable to the customer.

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

DA / CCA CRS

Energy Cost Recovery Amount Charge (per kWh)	(\$0.00057)
DWR Bond Charge (per kWh)	\$0.00580
CTC Charge (per kWh)	\$0.00096
Power Charge Indifference Adjustment (per kWh)	
2009 Vintage	\$0.01886
2010 Vintage	\$0.02186
2011 Vintage	\$0.02275
2012 Vintage	\$0.02378
2013 Vintage	\$0.02396
2014 Vintage	\$0.02398
2015 Vintage	\$0.02404
2016 Vintage	\$0.02394
2017 Vintage	\$0.02399
2018 Vintage	\$0.02406
2019 Vintage	\$0.02605

(L)

(Continued)



**ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER**

Sheet 6

2. TERRITORY: Schedule AG-4 applies everywhere PG&E provides electricity service. (L)
3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

Total Customer/Meter Charge Rates	Rate A,D	Rate B,E	Rate C,F
Customer Charge (\$ per meter per day)	\$0.57400	\$0.76313	\$2.15003
TOU Meter Charge (\$ per meter per day) (for rate A, B & C)	\$0.22341	\$0.19713	\$0.19713
TOU Meter Charge (\$ per meter per day) (for rate D, E & F)	\$0.06571	\$0.03943	\$0.03943
Total Demand Rates (\$ per kW)			
Connected Load Summer	\$9.23	—	—
Connected Load Winter	\$1.39	—	—
Maximum Demand Summer	—	\$11.26	\$5.79
Maximum Demand Winter	—	\$2.59	\$2.79
Maximum Peak Demand Summer	—	\$5.98	\$14.16
Maximum Part-Peak Demand Summer	—	—	\$2.70
Maximum Part-Peak Demand Winter	—	—	\$0.63
Primary Voltage Discount Summer (B, E per Maximum Demand; C, F per Maximum Peak Demand)	—	\$1.20	\$1.56
Primary Voltage Discount Winter (B, E, C, F per Maximum Demand)	—	\$0.40	\$0.36
Transmission Voltage Discount			
Maximum Peak Demand Summer	—	—	\$7.39
Maximum Part-Peak Demand Summer	—	—	\$1.51
Maximum Demand Summer	—	—	\$0.28
Maximum Part-Peak Demand Winter	—	—	\$0.63
Maximum Demand Winter	—	—	\$1.94
Total Energy Rates (\$ per kWh)			
Peak Summer	\$0.49345	\$0.32481	\$0.29832
Part-Peak Summer	—	—	\$0.17563
Off-Peak Summer	\$0.21900	\$0.17617	\$0.13274
Part-Peak Winter	\$0.22648	\$0.17660	\$0.14687
Off-Peak Winter	\$0.18454	\$0.14913	\$0.12776

(Continued)



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 9

3.	RATES:				(L)
	(Cont'd.):				
UNBUNDLING OF TOTAL RATES (Cont'd.)					
Energy Rates by Component (\$ per kWh)		Rate A,D	Rate B,E	Rate C,F	
Generation:					
	Peak Summer	\$0.18140	\$0.13886	\$0.15952	
	Part-Peak Summer	—	—	\$0.09188	
	Off-Peak Summer	\$0.08095	\$0.08229	\$0.06729	
	Part-Peak Winter	\$0.08551	\$0.08035	\$0.07428	
	Off-Peak Winter	\$0.07354	\$0.06898	\$0.06372	
Distribution**:					
	Peak Summer	\$0.26494	\$0.13976	\$0.09261	
	Part-Peak Summer	—	—	\$0.03756	
	Off-Peak Summer	\$0.09094	\$0.04769	\$0.01926	
	Part-Peak Winter	\$0.09386	\$0.05006	\$0.02640	
	Off-Peak Winter	\$0.06389	\$0.03396	\$0.01785	(L)

** Distribution and New System Generation Charges are combined for presentation on customer bills.

(Continued)

Advice 5754-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

February 4, 2020
March 1, 2020



**ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER**

Sheet 10

3. RATES:
(Cont'd.)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Energy Rates by Component (\$ per kWh)	Rate A,D	Rate B,E	Rate C,F	(L)
Transmission* (all usage)	\$0.02202	\$0.02202	\$0.02202	
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314	\$0.00314	
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)	(\$0.00041)	
Public Purpose Programs (all usage)	\$0.01397	\$0.01305	\$0.01305	
Nuclear Decommissioning (all usage)	\$0.00088	\$0.00088	\$0.00088	
Competition Transition Charges (all usage)	\$0.00096	\$0.00096	\$0.00096	
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)	(\$0.00057)	
DWR Bond (all usage)	\$0.00580	\$0.00580	\$0.00580	
New System Generation Charge (all usage)**	\$0.00132	\$0.00132	\$0.00132	
California Climate Credit (all usage)***	\$0.00000	\$0.00000	\$0.00000	(L)

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)

Advice 5754-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

February 4, 2020
March 1, 2020



**ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER**

Sheet 15

12. DEFINITION OF SERVICE VOLTAGE: The following defines the three voltage classes of Schedule AG-4 rates. Standard Service Voltages are listed in Rule 2, Section B.1. (L)
- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
 - b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- PG&E retains the right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option not taking service at the new voltage (and making whatever changes in their system are necessary) or taking service without a voltage discount through transformers supplied by PG&E.
13. BILLING: A customer's bill is calculated based on the option applicable to the customer.
- Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.
- Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.
- Direct Access (DA) and Community Choice Aggregation (CCA) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.
- | | <u>DA / CCA CRS</u> |
|--|---------------------|
| Energy Cost Recovery Amount Charge (per kWh) | (\$0.00057) |
| DWR Bond Charge (per kWh) | \$0.00580 |
| CTC Charge (per kWh) | \$0.00096 |
| Power Charge Indifference Adjustment (per kWh) | |
| 2009 Vintage | \$0.01886 |
| 2010 Vintage | \$0.02186 |
| 2011 Vintage | \$0.02275 |
| 2012 Vintage | \$0.02378 |
| 2013 Vintage | \$0.02396 |
| 2014 Vintage | \$0.02398 |
| 2015 Vintage | \$0.02404 |
| 2016 Vintage | \$0.02394 |
| 2017 Vintage | \$0.02399 |
| 2018 Vintage | \$0.02406 |
| 2019 Vintage | \$0.02605 |
- (L)

(Continued)



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 7

3. RATES:
(Cont'd.)

(L)

TOTAL RATES (Cont'd.)

Total Energy Rates (\$ per kWh)	Rate A, D	Rate B, E	Rate C, F
Peak Summer	\$0.34188	\$0.23498	\$0.18259
Part-Peak Summer	—	—	\$0.12580
Off-Peak Summer	\$0.17594	\$0.10334	\$0.10466
Part-Peak Winter	\$0.18515	\$0.12578	\$0.11099
Off-Peak Winter	\$0.15703	\$0.09406	\$0.10138
 PDP Rates (Rate C Option Only)			 RATE C
 PDP Charges (\$ per kWh)			
All Usage During PDP Event			\$1.00
 PDP Credits - Demand (\$ per kW)			
Peak Summer			(\$3.35)
Part-Peak Summer			(\$0.63)

(L)

(Continued)



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 10

3. RATES:
(Cont'd.):

(L)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Energy Rates by Component (\$ per kWh)	Rate A,D	Rate B,E	Rate C,F
Generation:			
Peak Summer	\$0.16856	\$0.16567	\$0.13788
Part-Peak Summer	—	—	\$0.08109
Off-Peak Summer	\$0.08564	\$0.05801	\$0.05995
Part-Peak Winter	\$0.08947	\$0.08045	\$0.06628
Off-Peak Winter	\$0.07698	\$0.04873	\$0.05667
Distribution**:			
Peak Summer	\$0.12621	\$0.02575	\$0.00115
Part-Peak Summer	—	—	\$0.00115
Off-Peak Summer	\$0.04319	\$0.00177	\$0.00115
Part-Peak Winter	\$0.04857	\$0.00177	\$0.00115
Off-Peak Winter	\$0.03294	\$0.00177	\$0.00115
Transmission* (all usage)	\$0.02202	\$0.02202	\$0.02202
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314	\$0.00314
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)	(\$0.00041)
Public Purpose Programs (all usage)	\$0.01397	\$0.01042	\$0.01042
Nuclear Decommissioning (all usage)	\$0.00088	\$0.00088	\$0.00088
Competition Transition Charges (all usage)	\$0.00096	\$0.00096	\$0.00096
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)	(\$0.00057)
DWR Bond (all usage)	\$0.00580	\$0.00580	\$0.00580
New System Generation Charge (all usage)**	\$0.00132	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000	\$0.00000

(L)

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 15

12. DEFINITION OF SERVICE VOLTAGE: The following defines the three voltage classes of Schedule AG-5 rates. Standard Service Voltages are listed in Rule 2, Section B.1. (L)

- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
- b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- c. Transmission: This is the voltage class if the customer is served without transformation from PG&E's serving transmission system at one of the standard transmission voltages specified in PG&E's Rule 2, Section B.1.

PG&E retains the right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option of taking service at the new voltage (and making whatever changes in their systems are necessary) or taking service without a voltage discount through transformers supplied by PG&E.

13. BILLING: A customer's bill is calculated based on the option applicable to the customer.

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

	DA /CCA CRS
Energy Cost Recovery Amount Charge (per kWh)	(\$0.00057)
DWR Bond Charge (per kWh)	\$0.00580
CTC Charge (per kWh)	\$0.00096
Power Charge Indifference Adjustment (per kWh)	
2009 Vintage	\$0.01886
2010 Vintage	\$0.02186
2011 Vintage	\$0.02275
2012 Vintage	\$0.02378
2013 Vintage	\$0.02396
2014 Vintage	\$0.02398
2015 Vintage	\$0.02404
2016 Vintage	\$0.02394
2017 Vintage	\$0.02399
2018 Vintage	\$0.02406
2019 Vintage	\$0.02605

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 6

3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

(L)

TOTAL RATES

Total Customer/Meter Charge Rates	Rate A,D	Rate B,E
Customer Charge (\$ per meter per day)	\$0.57400	\$0.76313
TOU Meter Charge (\$ per meter per day) (for rate A & B)	\$0.22341	\$0.19713
TOU Meter Charge (\$ per meter per day) (for rate D & E)	\$0.06571	\$0.03943
Total Demand Rates (\$ per kW)		
Connected Load Summer	\$8.09	—
Connected Load Winter	\$1.31	—
Maximum Peak Demand Summer	—	\$4.29
Maximum Demand Summer	—	\$11.03
Maximum Demand Winter	—	\$2.21
Primary Voltage Discount Summer	—	\$0.96
Primary Voltage Discount Winter	—	\$0.36
Total Energy Rates (\$ per kWh)		
Peak Summer	\$0.58658	\$0.53118
Off-Peak Summer	\$0.20739	\$0.19669
Part-Peak Winter	\$0.21147	\$0.18478
Off-Peak Winter	\$0.17441	\$0.15330

(L)

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 7

3. **RATES:** Total bundled service charges shown on customers' bills are unbundled (L)
(Cont'd.) according to the component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer/Meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand by Components (\$ per kW)	Rate A,D	Rate B,E
Generation:		
Connected Load Summer	\$1.54	—
Connected Load Winter	\$0.00	—
Maximum Peak Demand Summer	—	\$2.57
Maximum Demand Summer	—	\$2.28
Maximum Demand Winter	—	\$0.00
Primary Voltage Discount Summer	—	\$0.58
Primary Voltage Discount Winter	—	\$0.00
Distribution**:		
Connected Load Summer	\$6.55	—
Connected Load Winter	\$1.31	—
Maximum Peak Demand Summer	—	\$1.72
Maximum Demand Summer	—	\$8.75
Maximum Demand Winter	—	\$2.21
Primary Voltage Discount Summer	—	\$0.38
Primary Voltage Discount Winter	—	\$0.36
Energy Rate by Components (\$ per kWh)		
Generation:		
Peak Summer	\$0.30285	\$0.27442
Off-Peak Summer	\$0.07950	\$0.07880
Part-Peak Winter	\$0.08745	\$0.07261
Off-Peak Winter	\$0.07508	\$0.06242
Distribution**:		
Peak Summer	\$0.23662	\$0.21057
Off-Peak Summer	\$0.08078	\$0.07170
Part-Peak Winter	\$0.07691	\$0.06598
Off-Peak Winter	\$0.05222	\$0.04469
Transmission* (all usage)	\$0.02202	\$0.02202
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314
Public Purpose Programs (all usage)	\$0.01397	\$0.01305
Nuclear(l)Decommissioning (all usage)	\$0.00088	\$0.00088
Competition Transition Charges (all usage)	\$0.00096	\$0.00096
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)
DWR Bond (all usage)	\$0.00580	\$0.00580
New System Generation Charge (all usage)**	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(L)

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 11

10. MAXIMUM-PEAK-PERIOD DEMAND (Rates B and E Only): The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (L)
11. DEFINITION OF SERVICE VOLTAGE: The following defines the three voltage classes of Schedule AG-R rates. Standard Service Voltages are listed in Rule 2, Section B.1.
- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
 - b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- PG&E retains the right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option of taking service at the new voltage (and making whatever changes in their systems are necessary) or taking service without a voltage discount through transformers supplied by PG&E.
12. BILLING: A customer's bill is calculated based on the option applicable to the customer.
- Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.
- Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.
- Direct Access (DA) and Community Choice Aggregation (CCA) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.
- | | <u>DA / CCA CRS</u> |
|--|---------------------|
| Energy Cost Recovery Amount Charge (per kWh) | (\$0.00057) |
| DWR Bond Charge (per kWh) | \$0.00580 |
| CTC Charge (per kWh) | \$0.00096 |
| Power Charge Indifference Adjustment (per kWh) | |
| 2009 Vintage | \$0.01886 |
| 2010 Vintage | \$0.02186 |
| 2011 Vintage | \$0.02275 |
| 2012 Vintage | \$0.02378 |
| 2013 Vintage | \$0.02396 |
| 2014 Vintage | \$0.02398 |
| 2015 Vintage | \$0.02404 |
| 2016 Vintage | \$0.02394 |
| 2017 Vintage | \$0.02399 |
| 2018 Vintage | \$0.02406 |
| 2019 Vintage | \$0.02605 |

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 6

3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing. (L)

TOTAL RATES

Total Customer/Meter Charge Rates	Rate A,D	Rate B,E
Customer Charge (\$ per meter per day)	\$0.57400	\$0.76313
TOU Meter Charge (\$ per meter per day) (for rate A & B)	\$0.22341	\$0.19713
TOU Meter Charge (\$ per meter per day) (for rate D & E)	\$0.06571	\$0.03943
Total Demand Rates (\$ per kW)		
Connected Load Summer	\$8.14	—
Connected Load Winter	\$1.37	—
Maximum Peak Demand Summer	—	\$4.30
Maximum Demand Summer	—	\$11.14
Maximum Demand Winter	—	\$2.18
Primary Voltage Discount Summer	—	\$1.04
Primary Voltage Discount Winter	—	\$0.34
Total Energy Rates (\$ per kWh)		
Peak Summer	\$0.54909	\$0.49504
Off-Peak Summer	\$0.20436	\$0.19169
Part-Peak Winter	\$0.21329	\$0.18221
Off-Peak Winter	\$0.17533	\$0.15163

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 7

3. RATES: Total bundled service charges shown on customers' bills are unbundled according to the (L)
(Cont'd.) component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer/Meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand Rates by Component (\$ per kW)	Rate A,D	Rate B,E
Generation:		
Connected Load Summer	\$1.61	—
Connected Load Winter	\$0.00	—
Maximum Peak Demand Summer	—	\$2.73
Maximum Demand Summer	—	\$2.12
Maximum Demand Winter	—	\$0.00
Primary Voltage Discount Summer	—	\$0.62
Primary Voltage Discount Winter	—	\$0.00
Distribution**:		
Connected Load Summer	\$6.53	—
Connected Load Winter	\$1.37	—
Maximum Peak Demand Summer	—	\$1.57
Maximum Demand Summer	—	\$9.02
Maximum Demand Winter	—	\$2.18
Primary Voltage Discount Summer	—	\$0.42
Primary Voltage Discount Winter	—	\$0.34
Energy Rate by Components (\$ per kWh)		
Generation:		
Peak Summer	\$0.26550	\$0.24819
Off-Peak Summer	\$0.07644	\$0.07727
Part-Peak Winter	\$0.08573	\$0.07333
	\$0.07362	\$0.06299
Distribution**:		
Peak Summer	\$0.23648	\$0.20066
Off-Peak Summer	\$0.08081	\$0.06823
Part-Peak Winter	\$0.08045	\$0.06269
Off-Peak Winter	\$0.05460	\$0.04245
Transmission* (all usage)	\$0.02202	\$0.02202
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)
Public Purpose Programs (all usage)	\$0.01397	\$0.01305
Nuclear Decommissioning (all usage)	\$0.00088	\$0.00088
Competition Transition Charges (all usage)	\$0.00096	\$0.00096
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)
DWR Bond (all usage)	\$0.00580	\$0.00580
New System Generation Charge (all usage)**	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)

Advice 5754-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

February 4, 2020
March 1, 2020



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 12

12. BILLING: A customer's bill is calculated based on the option applicable to the customer. (L)

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

	<u>DA / CCA CRS</u>
Energy Cost Recovery Amount Charge (per kWh)	(\$0.00057)
DWR Bond Charge (per kWh)	\$0.00580
CTC Charge (per kWh)	\$0.00096
Power Charge Indifference Adjustment (per kWh)	
2009 Vintage	\$0.01886
2010 Vintage	\$0.02186
2011 Vintage	\$0.02275
2012 Vintage	\$0.02378
2013 Vintage	\$0.02396
2014 Vintage	\$0.02398
2015 Vintage	\$0.02404
2016 Vintage	\$0.02394
2017 Vintage	\$0.02399
2018 Vintage	\$0.02406
2019 Vintage	\$0.02605

(L)

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Advice 5754-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

February 4, 2020
March 1, 2020



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Attachment 2

Redline Electric Sample Forms

RATE SCHEDULE SELECTION CUSTOMER AGREEMENT

I wish to be billed under the optional rate schedule(s) as listed. I agree to the terms and conditions as described in the rate schedule tariff and as follows:

- I hereby grant to PG&E, its employees, agents or contractors, reasonable access at reasonable times to install, remove, repair and inspect the metering equipment.
- I understand that I can only change my rate schedule in accordance with Electric Rule 12.
- The chosen rate schedule will commence on the next regular meter reading date or meter installation or reprogramming date following PG&E's receipt of Rate Schedule Selection Customer Agreement.

STEP 1: SELECT YOUR DESIRED RATE SCHEDULE

Please provide information for each Service Agreement and meter for which you are seeking a rate change (see sample on page 2 for assistance). Descriptions of rate options and tariffs can be found at www.pge.com/rateoptions and www.pge.com/tariffs. Information about rate options and copies of rate schedule tariffs are also available upon request by calling 1-800-743-5000.

Rate Selection

- For Gas Rate Selection Complete Shaded Area Only
- For Electric Rate Selection Complete All Applicable Area

				Peak Day Pricing (PDP) Program Options				
				AG Only	Select Capacity Reservation Level		Select Event Frequency	
Service Agreement (Service ID#)	Meter #	Desired Rate	Business Description	Single Motor HP Multi-Motor HP Motor HP connected to Meter	Elect kW Value	Default	Unlimited	Alternate

STEP 2: SIGN BELOW AND PROVIDE REQUIRED CONTACT INFORMATION

I am requesting the above rate schedule selection(s) and agree to the terms and conditions as outlined in Page 1 of this agreement and in the tariffs.

Customer or Authorized Agent:

(Signature)

(Print Name)

(Title)

(Date)

(Telephone Number)

(Name on Account)

(Mailing Street Address)

(Mailing City, State, ZIP)

STEP 3: MAIL COMPLETED FORM TO PG&E

Please return signed form to: Pacific Gas And Electric Company, PO Box 8329, Stockton CA 95208-0329

RATE SCHEDULE SELECTION CUSTOMER AGREEMENT

SAMPLE RATE SELECTION – FOR REFERENCE ONLY

- For Gas Rate Selection Complete Shaded Area Only
- For Electric Rate Selection Complete All Applicable Area

SAMPLE RATE SELECTION – FOR REFERENCE ONLY					Peak Day Pricing (PDP) Program Options				
<ul style="list-style-type: none">For Gas Rate Selection Complete Shaded Area OnlyFor Electric Rate Selection Complete All Applicable Area					AG Only ³	Select Capacity Reservation Level ⁴		Select Event Frequency ⁵	
Service Agreement (Service ID#)	Meter #	Desired Rate	Business Description ²	<div>Motor HP <u>connected to Meter</u> Single Motor HP Multi-Motor HP</div>	Elect kW Value	Default	Unlimited	Alternate	
1234567890	1001234567	B-10	Title Office						
0987654321	1001234568	B-1	Retail Furniture Store				X		
4567891234	1001567890	AG <u>4AA1</u>	Irrigation Field Pump	10					
7890123456	1002345678	GNR-1 ¹	House Meter –Swimming Pool						

Notes:

- For Gas Rate Selection complete first four columns only (Service Agreement, Meter #, Desired Rate & Business Description).
- Describe what each meter serves (e.g., Pasture Flood Irrigation, Retail Clothing Store, House).
- Agricultural (AG) Rates Schedules only
 - For ~~single~~ motor installations, list the total horsepower rating of the motor(s) associated with the meter
 - ~~For multi-motor loads, list the total horsepower rating of all of the motors associated with the meter.~~
- Capacity Reservation Level: Level of capacity (kW) excluded from PDP participation.
 - Schedules E-19, E-20, and AG-5: Customer Defined or Default (equal to 50% of the customer's average maximum peak-period demand over the previous 6 summer months).
- Event Frequency: Frequency of participation in an event.
 - Applies only to Schedules A-1TOU (A-1X), A-6, A-10TOU & AG-4: Unlimited (every event) or Alternate (every other event)
 - Applies only to Schedules E-19, E-20 & AG-5: Unlimited only.
- This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

OPTIMAL BILLING PERIOD SERVICE ELECTION FORM

The undersigned Customer hereby acknowledges and agrees to all terms and conditions specified.

1. Eligibility

Customers taking service on PG&E's Schedule AG-~~5~~, "~~Large~~ Time-of-Use Agricultural Power", Rate ~~AG-C or F~~, Schedule E-19 or B-19, "Medium General Demand Metered Time-of-Use Service," or Schedule E-20 or B-20, "Service to Customers with Maximum Demands of 1,000 Kilowatts or More," may elect the Optimal Billing Period (OBP) service, subject to program availability, and the qualifying eligibility terms and conditions specified below and in the applicable tariffs.

2. By electing the Optimal Billing Period (OBP) service, customer declares it has reviewed and meets all eligibility requirements as described in the customer's applicable electric rate schedules: PG&E's electric rate Schedule AG-~~5~~, Special Condition 16 – *Optimal Billing Period Service*, PG&E's electric rate Schedule E-19 or B-19, Special Condition 20 – *Optimal Billing Period Service*, or in PG&E's electric rate Schedule E-20 or B-20, Special Condition 18 – *Optimal Billing Period Service*.

3. Terms and Conditions

The initial term of this Agreement shall be for a period of one (1) year from the date executed by PG&E. This Agreement shall continue thereafter for successive terms of one (1) year, provided, however, that either party shall have the right to terminate this Agreement at the expiration of the initial one (1) year term or anytime thereafter upon thirty (30) days written notice to the other party. However, if a customer terminates this agreement between anniversary dates, there shall be no entitlement to a refund for any portion of the most recent OBP fee payment to PG&E. Once terminated, the Customer will not be eligible for OBP service for twelve (12) months from the termination date. Should this OBP program terminate, PG&E reserves the right to terminate all Agreements upon the expiration date of the OBP service.

4. Designation of Subject Months

The Customer designates the six consecutive months of _____, _____, _____, _____, _____, and _____ as the high seasonal optimal billing period.

5. Annual Qualification

Customers must continue to meet the eligibility requirements stated in Section 1, above, to qualify for OBP service in subsequent one-year term(s).



OPTIMAL BILLING PERIOD SERVICE ELECTION FORM

6. Customer Notification to PG&E

The customer must notify PG&E via email and shall state in its subject line "OBP Notification" of its elected production start and/or end dates of the OBP service. The designation may not be implemented if it is not received or if it does not contain the specified information. A participating customer must email PG&E at least seventy-two (72) hours in advance of elected date(s). The customer should send emails to the following address: OptimalBillingNotifi@pge.com.

7. Commission Jurisdiction

This Agreement and PG&E's tariffs shall all times be subject to such changes or modifications by the California Public Utilities Commission (Commission) as said Commission may direct, from time to time, in the exercise of its jurisdiction.

THEREFORE, being a duly authorized representative of the Customer, I certify that I have read the foregoing and understand and agree to all terms and conditions.

Executed this _____ day of _____, _____.

BY:

Customer or Business Name

Signature

Type or print name

Title

Date

BY:

PACIFIC GAS & ELECTRIC COMPANY

Signature

Type or print name

Title

Date



Pacific Gas and
Electric Company®

NEMV

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

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

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

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

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

A. Applicability and Purpose:

This *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less* (Agreement) applies to electric rate schedule NEMV—*Virtual Net Energy Metering For A Multi-Tenant And Multi-Meter Property Served At The Same Service Delivery Point* for the Owner or designated agent of the Owner (Owner) who interconnects a single solar photovoltaic and/or wind generating facility sized no larger than for the energy requirements of all eligible Benefitting Accounts (as defined in Schedule NEMV) of the past year but with a maximum total size of no larger than one MW or 1,000 kW (Renewable Electric Generation Facility) that is located at a Single Delivery Point¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEMV, that meets all the applicability requirements in Schedule NEMV, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System.

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

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

Guidelines and Steps for Interconnection

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

B. NEM Transition

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

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

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

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

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

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

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

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

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

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

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

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

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf

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

Part II – Selecting the Study Process

Please check one:

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

Part III – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

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

Interconnections on PG&E's Secondary Network

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

Meter Access

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

Smart Inverters

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

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

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <http://www.gosolarcalifornia.org/equipment/inverters.php>.)

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017,
- (b) the Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application¹² no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

Document and Fee Requirements

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

Stale Agreements

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

² A complete application consists all of the following without deficiencies:

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

Agreement Package:

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

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including completed Appendices A, B and C**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E-20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the Applicability Section of NEMV, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEMV Generating Facility location:

³ The CEC's eligible equipment list can be found under the CSI heading at: www.consumerenergycenter.org/erprebate/equipment.html

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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

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

Insuring Company's Name: _____

Insurance Policy # _____

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

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

Internet Agreement Forms

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

Part IV – General Facility

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

Date: _____

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

☐ Yes

If yes, specify what kind of generator _____

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

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

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

☐ Yes

If yes, what program are you on? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes

☐ No. Reason: _____

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

Location: _____

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

☐ Yes - What restriction? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes.

☐ No.

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

☐ Yes - Describe: _____

☐ No.

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

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

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

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

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

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

Duration _____

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

- ☐ Yes
- ☐ No

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

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

- ☐ Yes
- ☐ No

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

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ⁴ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

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

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

D. Wind Turbine Equipment (if applicable)

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating kW (per unit) ⁶	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁷	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

E. Service Panel Short Circuit Interrupting Rating

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

F. Maximum 3-Phase Fault Current Contribution

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

G. Notices - Mailing Instructions and Assistance:

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

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

⁴ The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

⁵ The total capacity is the PV panel rating times the quantity.

⁶ For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

⁷ The total capacity is the PV panel (or wind turbine) rating times the quantity.

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

H . Governing Law

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

I . Term of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. This Agreement shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMV.

J . Governing Authority

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

K. Appendix A, Appendix B and Appendix C

Attached to this agreement are:

- *Appendix A - Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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

Appendix A – Designation of NEMV Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

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

Section 1 Instructions

- a. Complete the section below (this information must match the Owner information on the associated *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Serving Multi-Tenant And Multi-Meter Property* for the same NEMV Renewable Electric Generation Facility.

Owner Name	Address	Date

- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 2 or 3(g)?

- ☐ This application is for an allocation for the initial, new NEMV Arrangement:
- ☐ This application is for a reallocation for an existing NEMV Arrangement:

- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEMV tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
 Is this a reallocation of an existing NEMV Arrangement? __ Yes __ N

Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load

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

Address of Generator _____

In accordance with Schedule NEMV, I, Owner warrant that:

- 1) the Generator Account associated with this NEMV agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEMV Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all or the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____

Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E GIS contact information when sending this form to Applicant].

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

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



Pacific Gas and
Electric Company®

NEM2V

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

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

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

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

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

A. Applicability and Purpose:

This *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility* (Agreement) applies to electric Rate Schedule NEM2V—*Virtual Net Energy Metering Service* for a multi-tenant or multi-meter Eligible NEM2V installation on a single Premises, as defined in Electric Rule 1 for the Owner or designated agent of the Owner (Owner) who interconnects a single solar photovoltaic and/or wind generating facility sized no larger than for the energy requirements of all eligible Benefitting Accounts (as defined in Schedule NEM2V) of the past year (Renewable Electric Generation Facility) that is on a single Premises, as defined in Electric Rule 1¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEM2V, that meets all the applicability requirements in Schedule NEM2V, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Electric System.

The purpose of this Agreement is to allow the Owner to interconnect the Renewable Electric Generation Facility with PG&E's Electric System, subject to the provisions of this Agreement and PG&E's Rate Schedule NEM2V. Owner has elected to interconnect and operate its Renewable Electric Generation Facility in parallel with PG&E's Electric System, primarily to offset part or all of the NEM2V Arrangement's own electrical requirements of the Benefitting Accounts at the affiliated service on a as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

Note: If this application is for a Renewable Electric Generation Facility with a generator type that is other than solar (PV) and wind covered in Schedule NEM2V, please use Application "*Rule 21 Generator Interconnection Application*" (Form 79-1174-02).

B. Guidelines and Steps for Interconnection

This Application and Agreement must be completed and sent to PG&E to initiate PG&E's interconnection review of the proposed Generating Facility.

¹ From Electric Rule 2, a PREMISES is defined as all of the real property and apparatus employed in a single enterprise on an integral parcel of land undivided, excepting in the case of industrial, agricultural, oil field, resort enterprises, and public or quasi-public institutions, by a dedicated street, highway or public thoroughfare or railway. Automobile parking lots constituting a part of and adjacent to a single enterprise may be separated by an alley from the remainder of the Premises served..



NEM2V

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

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

- ☐ A New NEM2V Renewable Electric Generation Facility interconnection (at an existing service).
- ☐ For Physical/Electrical Changes to an interconnected NEM2V Renewable Electric Generation Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEM2V interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Eligible Energy Generation Credits under NEM2V for an Existing Renewable Electric Generation Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEM2V accounts.

Special Condition 6 of Schedule NEM2V requires that any Customer with an existing generating facility and meter who enters into a new NEM2V agreement shall complete and submit a copy of Form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

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

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

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

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

**NEM2V***Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less***F. Other Contact Information** (This information is optional).

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

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

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf

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

Part II – Selecting the Study Process

Please check one:

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

Part III – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

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

Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM2V Owner's Renewable Electric Generation Facility. **Please contact Electric Generation Interconnection by email nemvgen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter Access

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

Smart Inverters

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

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

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <http://www.gosolarcalifornia.org/equipment/inverters.php>.)

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application² no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

² A complete application consists all of the following without deficiencies:

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

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

Document and Fee Requirements

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

Stale Agreements

If this agreement is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEM2V.

CEC Listed

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

Interconnection Fees

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

A. Agreement Package:

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

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including completed Appendices A, B and C**. **Please note:** the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E-20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Electric System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEM2V Eligible Renewable Electric Generation Facility and utility's Electric System.



- b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the photovoltaic panel or wind turbine manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote 1 below).
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEM2V customers may be able to combine the generator output meter with an incentive meter. See Schedule NEM2V for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings on a single Premises that will be included as part of the NEM2V Arrangement that is located on a single Premises and satisfies the requirements in the Applicability Section of NEM2V, the meter locations, and denote where the Renewable Electric Generation Facility will be located and interconnected.
 4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEM2V Generating Facility location:

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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

☐ I **have** insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule NEM2V Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule NEM2V Generating Facility location.

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

³ The CEC's eligible equipment list can be found under the CSI heading at: www.consumerenergycenter.org/erprebate/equipment.html

6. Schedule NEM2V may include charges where applicable, including but not limited to that in Special Conditions: 1 (metering), 2 (one-time set-up or modification charges) and/or 3 (demand credit set-up charges).
7. **Appendix C Site Assessment Documentation** as described in the cover sheet for Appendix C.

Internet Agreement Forms

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

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

Date: _____

B. Are there any other generators interconnected on this account?☐ Yes**If yes**, specify what kind of generator _____☐ No**C. Are there any possible generator meter access issues?**☐ Yes If yes, check all that apply:☐ Locked Room/Gate☐ Meter located inside of facility/residence☐ Unrestrained animal at meter or AC disconnect switch location☐ Other (Please explain) _____☐ No**D. Are any of your accounts on a Demand Response program?**

Qualified Customers are eligible for the same demand response programs and solar tariffs as NEM customers. Demand response payments to Qualified Customers will be based on the Qualified Customer's metered usage disregarding any contributions from virtually net-metered generation. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) should also exclude from consideration any impacts of NEM2V generation.

☐ Yes **If yes**, what program are you on? _____☐ No.**E. Generator Interconnection Tie-in Point – Does your interconnection satisfy PG&E's Meter Standards (Appendix C of this Agreement)?**☐ Yes☐ No. Reason: _____

If after review of a customer's NEM2V application PG&E determines a site assessment is essential, then PG&E may conduct a site assessment. Please note that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.

F. Are you planning to meet the requirements specified in the PG&E Greenbook (current reference is "VNEM Installation Requirements", Utility Bulletin TD6999B-005, 02/06/2012)?☐ Yes☐ No. Reason: _____



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

Location: _____

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

- ☐ Yes - What restriction? _____
- ☐ No.

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

- ☐ Yes
- ☐ No. Reason: _____

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

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

- ☐ Yes.
- ☐ No.

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

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

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

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

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

Duration _____

**NEM2V***Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less*

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

- ☐ Yes
☐ No

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

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

- ☐ Yes
☐ No

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

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

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

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

B. Inverters interconnected with PG&E

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ⁴ kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

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

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

⁴ The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

⁵ The total capacity is the PV panel rating times the quantity.



2

D. Wind Turbine Equipment (if applicable)

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating kW (per unit) ⁶	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) ⁷	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

E. Service Panel Short Circuit Interrupting Rating

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

F. Maximum 3-Phase Fault Current Contribution

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

G. Notices - Mailing Instructions and Assistance:

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

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

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

H. Governing Law

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

I. Term of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. This Agreement shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEM2V.

⁶ For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

⁷ The total capacity is the PV panel (or wind turbine) rating times the quantity.



J . Governing Authority

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

K . Warranties or Service Agreements

Customer-Generator certifies as a part of this interconnection request for NEM2 that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) a 10-year service warranty or executed "agreement" has been provided ensuring proper maintenance and continued system performance.

L. Appendix A, Appendix B and Appendix C

Attached to this agreement are:

- *Appendix A - Designation of NEM2V Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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



Appendix A – Designation of NEM2V Generating Account and Benefitting Accounts and Their Respective Eligible Energy Credit Allocation

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

Section 1 Instructions

- a. Complete the section below (this information must match the Owner information on the associated *Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 MW or Less Serving Multi-Tenant And Multi-Meter Property* for the same NEM2V Renewable Electric Generation Facility.

Owner Name	Address	Date

- b. Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEM2V Arrangement or for a change to the Allocation for an existing NEM2V facility, as described in either NEM2V Special Condition 2 or 3(g)?
- ☐ This application is for an allocation for the initial, new NEM2V Arrangement:
- ☐ This application is for a reallocation for an existing NEM2V Arrangement:
- c. Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEM2V. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to NEMVGen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable single Premises requirements in the NEM2V Applicability Section to be Eligible for Schedule NEM2V.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEM2V Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEM2V Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** "system operator/qualified customer" has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEM2V tariff this is referred to as the "Default Account."
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2, Account List. (Start with Page 1 and do not count the page numbers for this instruction page. Also indicate on one of the pages if the allocation is for a new Arrangement or an existing Arrangement).

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the *Authorization to Receive Customer Information or Act Upon a Customer's Behalf*: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf - (Form 79-1095) that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

NEM2V

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

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEM2V Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
Is this a reallocation of an existing NEM2V Arrangement? ☐ Yes ☐ N



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NEM2V

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

Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load

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

Address of Generator _____

In accordance with Schedule NEM2V, I, Owner warrant that:

- 1) the Generator Account associated with this NEM2V agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEM2V Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all of the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____



Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E EGI contact information when sending this form to Applicant].

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below).
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

Note: If after review of a customer's NEM2V application PG&E determines a site assessment is needed, then PG&E may conduct a site assessment. Owners are reminded that entering PG&E sealed sections of their service panels is unsafe and not permitted without PG&E's supervision and express authorization.



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NEMV

Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less



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

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

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

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

A. Applicability and Purpose:

This *NEMV Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less* (Application) applies to electric rate schedule NEMV—*Virtual Net Energy Metering For A Multi-Tenant Or Multi-Meter Property Served At The Same Service Delivery Point* for the Owner or designated agent of the Owner (Owner) who interconnects a Renewable Electrical Generation Facility sized no larger than for the energy requirements of all eligible Benefitting Accounts (as defined in Schedule NEMV) of the past year but with a maximum total size of no larger than one megawatt or 1,000 kilowatts (Renewable Electric Generation Facility) that is located at a Single Delivery Point¹ with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Renewable Electric Generation Facility as described in NEMV, that meets all the applicability requirements in Schedule NEMV, and that operates in parallel with Pacific Gas and Electric Company's (PG&E) Distribution System.

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

Note: If this application is for a Renewable Electric Generation Facility with a generator type that is solar (PV) and/or wind, please use Application form 79-1131.

B. Guidelines and Steps for Interconnection

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

C. NEM Transition

Customers receiving service on the current NEMV tariff prior to the date that PG&E reaches its NEM Cap or July 1, 2017, whichever is earlier, are subject to the NEM Transition Provisions outlined in Rate Schedule NEM. Please see Rate Schedules NEM and NEMV at https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEM.pdf and https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHS_NEMV.pdf for more details.

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

Please complete this agreement in its entirety

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

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

Special Condition 6 of Schedule NEMV requires that any Customer with an existing generating facility and meter who enters into a new NEMV Agreement (Form 79-1137) shall complete and submit a copy of form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

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

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

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

Contractor		Company Name	
Mailing Address			
City		State	Zip
Business Phone	Fax	Email	
<input type="checkbox"/> This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this Application.			

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

Contact Person		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
<input type="checkbox"/> This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this Application.			

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

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

Part II – Selecting the Study Process

Please check one:

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

Part III – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of the Renewable Electric Generation Facility

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

Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to

Please complete this agreement in its entirety

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

Meter access

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

Smart Inverters

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

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

(Solar inverter models and firmware versions that comply with Rule 21 Section Hh can be found at <http://www.gosolarcalifornia.org/equipment/inverters.php>.)

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

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

- (a) it is already approved by PG&E for interconnection prior to September 9, 2017
- (b) the Owner has submitted the interconnection application prior to September 9, 2017,
- (c) the Owner provides evidence of having applied for an electrical permit for the Generating Facility installation that is dated prior to September 9, 2017 and submitted a complete interconnection application² no later than March 31, 2018, or
- (d) the Owner provides evidence of a final inspection clearance from the governmental authority having jurisdiction over the Generating Facility prior to September 9, 2017.

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

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

Document and Fee Requirements

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

² A complete application consists all of the following without deficiencies:

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

Please complete this agreement in its entirety

Stale Applications

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

A. Application Package:

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

Required Documents for New Applicants:

1. A completed copy of this **Application, including completed Appendices A, B and C as well as the Supplemental Data Collection Form (see Part I Section B above).** *Please note:* the Owner's name (as identified in Part I, Section D) must be the same name as on the PG&E bill. In this Application, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A-1 or B-1 for general service accounts (unless required to be on a mandatory rate schedule such as E-19, B-19, E20 or B-20), and AG-1 or AG-A1 for agricultural rates when establishing how Owner's Benefitting Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Renewable Electric Generation Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all generators, circuit breakers and other protective devices of the Renewable Electric Generation Facility, the general location of the Owner's loads relative to the Renewable Electric Generation Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.
PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMV Eligible Renewable Electric Generation Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)**, if any, used to control the interconnection between PG&E and the Renewable Electric Generation Facility, including rating, brand name, and model number. Only CEC-certified inverters³ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The description must include the generator manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified equipment will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website in footnote below). For generator equipment that is not CEC certified, Applicant may need to provide additional information and/or documentation at PG&E's request.
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information. NEMV customers may be able to combine the generator output meter with an incentive meter. See Schedule NEMV for details and the cost.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the

³ The CEC's eligible equipment list can be found under the CSI heading at: www.consumerenergycenter.org/erprebate/equipment.html
Please complete this agreement in its entirety

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

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

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a Renewable Electric Generation Facility that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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

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

Insuring Company's Name: _____

Insurance Policy # _____

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

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

Internet Application Forms

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

Part IV – General Facility

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

Date: _____

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

☐ Yes

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

☐ No

C. Are there any possible generator meter access issues?

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

☐ Locked Room/Gate

☐ Meter located inside of facility/residence

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☐ Unrestrained animal at meter or AC disconnect switch location

☐ Other (Please explain) _____

☐ No

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

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

☐ Yes

If yes, what program are you on? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes

☐ No. Reason: _____

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

Location: _____

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

☐ Yes - What restriction? _____

☐ No.

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

☐ Yes

☐ No. Reason: _____

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

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

☐ Yes.

☐ No.

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

- ☐ Yes - Describe: _____
- ☐ No

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

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

- ☐ Yes - Describe: _____
- ☐ No.

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

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

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

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

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

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

Duration _____

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

- ☐ Yes
- ☐ No

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

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

- ☐ Yes
- ☐ No

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

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

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

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

Please complete this agreement in its entirety

B. Generating Equipment

List all the equipment that will be interconnected to PG&E for this NEMV Arrangement:

1. Generation Equipment Detailed Description

NEMV Type of Generation Equipment - Table B.1 (see row 2 below)		
1. biomass	2. geothermal	3. municipal solid waste
4. solar thermal	5. fuel cell	6. landfill gas
7. small hydroelectric generation	8. ocean wave	9. digester gas
10. ocean thermal	11. tidal current	

Generating Equipment Description - Table B.2						
		Generator type 1	Generator Type 2	Generator Type 3	Generator Type 4	Generator Type 5
a	Is the Generator new or existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing	<input type="checkbox"/> New <input type="checkbox"/> Existing
b	Number of Type of NEMV generation (from Table B.1)					
c	Please indicate the quantity of each "type" of Generators being installed:					
d	Generator Manufacturer					
e	Generator Model					
f	Is the Generator CEC certified?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
g	Generator Design	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter	<input type="checkbox"/> Synchronous <input type="checkbox"/> Induction <input type="checkbox"/> Inverter
h	Generator Gross Nameplate Rating					
i	Generator Operating Voltage					
j	Inverter (if any) Manufacturer					
k	Inverter (if any) Model					
l	Is the Inverter (if any) CEC certified?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
m	Inverter (if any) Gross Nameplate Rating					
n	Inverter (if any) Generator Operating Voltage					
o	Power Factor rating (if applicable)					
p	PF Adjustment Range (if applicable)					

2. Generator Account's otherwise-applicable rate schedule under the provisions of Schedule NEMV will be _____.

3. If the date of the permits allowing the Customer-Generator to commence construction of the Generating Facility is prior to January 1, 2003, please provide the date the permits were issued: _____.

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

C. Service Panel Short Circuit Interrupting Rating

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

D. Maximum 3-Phase Fault Current Contribution

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

E. Notices - Mailing Instructions and Assistance:

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

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

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

F. Governing Law

This Application shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

G. Term of Application

After receipt of all applicable fees, required documents, and this completed Application, this Application shall become effective on the date of PG&E issues the permission to operate letter. This Application shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMV.

H. Governing Authority

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

I. Appendix A, Appendix B and Appendix C

Attached to this Application are:

- *Appendix A - Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*
- *Appendix B –Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load; and*
- *Appendix C – Generator Interconnection Tie-in Point Documentation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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

Appendix A – Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation

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

Section 1 Instructions

- 1) Complete the section below (this information must match the Owner information on the attached Application).

Owner Name	Address	Date

- 2) Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 2 or 3(g)?
- ☐ This application is for an allocation for the initial, new NEMV Arrangement
- ☐ This application is for a reallocation for an existing NEMV Arrangement:
- 3) Please use the attached Appendix A, Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. Alternatively, an Applicant may fill out the table below in a digital format (i.e. spreadsheet) and supply that along with the application and agreement to Rule21gen@pge.com. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – (required) – The Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – (required) -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – (required) - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – (required) - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – (required) -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%. If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.
- **Designated Unallocated Credit Account** “system operator/qualified customer” has the option to designate the disposition of unallocated credits to either: the Common Area Account, or one Benefitting Account. In the NEMV tariff this is referred to as the “Default Account.”
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for this instruction page). Also indicate on one of the pages if the allocation is for a new Arrangement, or an existing Arrangement.

If Owner would like billing data from a Benefitting Account in order to verify the credit allocation they need the Benefitting Account customer's consent. To facilitate this process, here is a link to the: https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_FORMS_79-1095.pdf that would need to be submitted to PG&E prior to release of the Benefitting Account customer's billing data to the Owner.

Section 2

Account Type	Account Address (required field) (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field) (Generator Accounts should be under the Owner's Name Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places, the sum of all Benefitting Account Allocation must total 100%. For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)	Designated Unallocated Credit Account (optional – check one Common Area or Benefitting Account to receive unallocated credits)
Generator Account						
Benefitting Accounts						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Project Identification Number _____ (for PG&E's use only) Account List - Appendix A, Section 2 Page _____ of _____
 Is this a reallocation of an existing NEMV Arrangement? __ Yes __ N

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load

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

Address of Generator _____

In accordance with Schedule NEMV, I, Owner warrant that:

- 1) the Generator Account associated with this NEMV Application is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEMV Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all or the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, _____, Owner, on date: _____

Owner's Name (printed) _____

Appendix C – Generator Interconnection Point Documentation

[PG&E to attach current copy or web link providing PG&E's standards and requirements for Virtual Net Metering and PG&E GIS contact information when sending this form to Applicant.]

Applicant attaches the following Documentation:

- the single line diagram to illustrate connection with the selected option provided in the Metering Standard
- the switchgear, switchboard, or main panel cut-sheets/shop drawings detailing the bussing, any modifications, clearances, and proposed point of interconnection. The proposal must include a signed PE stamp and modifications must be certified by the manufacturer or a qualified third party
- pictures of the point of interconnection (see safety "Note" below)
- the meter socket cut-sheets of the net generation output meter socket
- additional material as specified by PG&E

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

Attachment 3

**Complete sets of the
Electric Schedules AG-1, AG-4, AG-5, AG-R and AG-V
that will become effective March 1, 2020**



San Francisco, California

Cal. P.U.C. Sheet No. 45787-E
Cal. P.U.C. Sheet No. 34541-E

Sheet 1

- (a) growing crops;
- (b) raising livestock;
- (c) pumping water for irrigation of crops; or
- (d) other uses which involve production for sale.

This schedule is not applicable to service for which a residential or commercial/ industrial schedule is applicable, or to customers with a maximum demand of 500 kW or more. This schedule is also not available to customers whose meter indicates a maximum demand of 200 kW or greater for three consecutive months, except customers that are identified as load research sites. Customers with interval data meters who are not eligible for this rate schedule must be placed on a Time-Of-Use (TOU) rate schedule.

Rate B: Applies to single-motor installations rated 35 horsepower or more, to multi-load installations aggregating 15 horsepower or kilowatts or more, and to “overloaded” motors. The customer’s end-use is determined to be overloaded when the measured input to any motor rated 15 horsepower or more is determined by PG&E to exceed one kilowatt per horsepower of nameplate rated output.

$$\begin{array}{c} \text{(L)} \\ \vdots \\ \text{(L)} \end{array}$$

(Continued)

<i>Submitted</i>	December 9, 2019
<i>Effective</i>	March 1, 2020
<i>Resolution</i>	



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 2

1. APPLICABILITY: (Cont'd.)
- Effective November 1, 2014, new customers establishing service where a Smart Meter™ is already in place are not eligible for Schedule AG-1 and must instead be served under an applicable TOU rate schedule, such as Schedule AG-4 or AG-5. (L)
- Decision 18-08-013 adopted new TOU periods and new seasonal definitions for all non-residential customer classes, as well as new rates for the Agricultural customer class. Schedules AG-1, AG-4, AG-5, AG-R and AG-V will be retained as legacy rate schedules with their current TOU periods until the rates with revised TOU periods (Schedules AG and AG-F) established in the same proceeding, become mandatory in March 2021. (N)
- Decision 19-05-010 adopted additional modifications to the agricultural rates adopted in Decision 18-08-013 and delays the mandatory transition until March 2022 for highly impacted agricultural customers, defined as those customers with potential bill increases greater than 7 percent and \$100 annually due to the transition to the rates with revised TOU periods. In addition, certain qualifying customers with solar systems will be permitted to maintain their current TOU periods for a certain period of time, per Decision 17-01-006, as described in Electric Rule 1, Definitions: Behind the Meter Solar TOU Grandfathering and Eligibility Requirements.
- The new rates with revised TOU periods adopted in D.18-08-013 and modified in D.19-05-010 will be available on a voluntary basis for qualifying customers beginning March 1, 2020. During this voluntary period from March 1, 2020 through February 28, 2021:
- Schedule AG, with revised TOU periods, will be available for voluntary enrollment for customers with interval meters that can be remotely read by PG&E.
- Legacy rate schedules, including Schedule AG-1, will be closed to all new enrollment. Customers requesting to establish service on Schedule AG-1, where an interval data meter that can be read remotely by PG&E is already in place, will be placed on the new Schedule AG with revised TOU periods. Customers requesting to establish service on Schedule AG-1 that do not have a meter capable of billing on the new Schedule AG, may take service on this schedule.
- Customers taking service under Schedule AG-1 at the time rates with new TOU periods become available, may transfer to new Schedule AG or Schedule AG-F, with revised TOU periods, may remain on this rate until rates with revised TOU periods become mandatory, in March 2021, or, on an exceptions basis, may request to transfer to another legacy rate pursuant to Electric Rule 12, Section C, or in accordance with Electric Rule 1 as referenced above, for solar grandfathered customers.
- Beginning on March 1, 2021, customers still served on Schedule AG-1 will be transitioned to Schedule AG as discussed in the **Time of Use Rates** Section below. (N)

(Continued)

Advice	5709-E	Issued by	Submitted	December 9, 2019
Decision	D.18-08-013 and D.19-05-010	Robert S. Kenney Vice President, Regulatory Affairs	Effective Resolution	March 1, 2020



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 3

1.APPLICABILITY: The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule AG-1 charges. Exemptions to standby charges are outlined in the Standby Applicability Section of this rate schedule.

(L)

Time-of-Use Rates: Decision 10-02-032, as modified by Decision 11-11-008, makes TOU rates mandatory beginning March 1, 2013, for Agricultural customers that have at least twelve (12) billing months of hourly usage data available.

(L)

(L)(T)
(L)(D)

(D)
(D)

Decision 18-08-013 adopted new TOU periods for all non-residential customer classes. The Decision also suspends the transition of eligible AG-1 customers to mandatory TOU rates beginning March 1, 2019 until the rates with new TOU periods, as adopted in the same Decision, become mandatory. The rates with new TOU periods are expected to become mandatory for agricultural customers in March 2021, concurrent with the resumption of customer transitions to mandatory TOU rates.

(L)

(L)

(D)

(D)

Decision 18-08-013 adopted new TOU periods and seasonal definitions for all non-residential customer classes as discussed above. Beginning March 1, 2021, Schedule AG and Schedule AG-F with revised TOU periods, will become mandatory for customers served on this schedule, with exceptions for solar grandfathered customers, discussed above.

(N)

Beginning March 2021, customers served under Schedule AG-1 will transition to the rate plans under Schedule AG with revised TOU periods on a mandatory basis or may elect service under optional Schedule AG-F or any other rate plan for which they are eligible.

Customers on AG-1A with an interval meter that have at least twelve (12) billing months hourly usage data available, and a maximum demand less than 35 kW, will transition to AG-A1 under Schedule AG, or may elect to enroll in AG-A2 or AG-FA under Schedule AG-F.

Customers on AG-1A with an interval meter that have at least twelve (12) billing months hourly usage data available, and a maximum demand of 35 kW or greater, for three consecutive months in the most recent twelve months, will transition to AG-B under Schedule AG, or may elect to enroll in AG-C, or AG-FB or AG-FC under Schedule AG-F.

Customers on AG-1B, with an interval meter that have at least twelve (12) billing months hourly usage data available, will transition to AG-B under Schedule AG, or may elect to enroll in AG-C, or AG-FB or AG-FC under Schedule AG-F.

(N)

(Continued)

Advice	5709-E	Issued by	Submitted	December 9, 2019
Decision	D.18-08-013 and	Robert S. Kenney	Effective	March 1, 2020
	D.19-05-010	Vice President, Regulatory Affairs	Resolution	



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 4

1.APPLICABILITY: Summarized below:
(Cont'd.)

Legacy Rate	Defaults to service under Schedule AG:	Or May Opt-In to
AG-1A < 35 kW	<u>AG-A1</u>	AG-A2, AG-FA
AG-1A >= 35 kW, AG-1B	<u>AG-B</u>	AG-C, AG-FB, AG-FC

The transition of customers no longer eligible for AG-1 to Schedule AG with revised TOU periods will occur on the start of the customer's March billing cycle. Customers will have at least 45-days' notice prior to their scheduled transition date, during which they will continue to take service on this rate schedule. Customers may elect any applicable rate plan with revised TOU periods, based on their eligibility, up to five (5) days prior to the planned transition date to the new Schedule AG.

Exemptions to the mandatory transitions beginning in March 2021 include:

Qualifying customers with solar systems who meet the requirements in Rule 1 Definition of "Behind-the-Meter Solar TOU Period Grandfathering" and the terms of "Behind-the-Meter Solar TOU Period Grandfathering Eligibility Requirements" shall be permitted to maintain their legacy TOU rate periods, until the date ten years after their system received its permission to operate (but in no event beyond December 31, 2027 (for public schools) or July 31, 2027 (for all other qualifying). However, rates for those TOU rate periods will be updated with new rates as authorized in applicable PG&E rate proceedings and advice filings.

"Highly impacted" customers, defined as those agricultural customers with potential bill increases greater than 7 percent and \$100 annually due to the transition, may remain on their legacy rate schedule for an additional year but must transition to the new rates with revised TOU periods in March 2022. Decision 19-05-010 delays the mandatory transition to rates with revised TOU periods for these "highly impacted" customers and clarifies that net energy metering (NEM) customers, direct access customers, and community choice aggregation customers and accounts beginning service on or after August 9, 2018 are not eligible for "highly impacted" subgroup exemptions from the mandatory TOU transition in March 2021.

Customers that do not have a meter that is capable of billing on the new Schedule AG on or after March 2021, may continue service on this schedule until they receive an interval meter and have at least twelve (12) months of hourly usage data available.

The mandatory transition process will occur each March to transition all applicable remaining AG-1 customers to the rates with revised TOU periods as described above.

All AG-1A customers will remain on a connected load basis and will not convert to metered demand.

(N)

(N)

(L)

(L)

(Continued)

Advice	5709-E	Issued by	Submitted	December 9, 2019
Decision	D.18-08-013 and D.19-05-010	Robert S. Kenney Vice President, Regulatory Affairs	Effective Resolution	March 1, 2020



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 5

2. TERRITORY: Schedule AG-1 applies everywhere PG&E provides electricity service. (L)
3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

	Rate A	Rate B	
Total Customer Charge Rates (\$ per meter per day)	\$0.57400	\$0.76313	
Total Demand Rates (\$ per kW)			
Connected Load Summer	\$9.07	—	
Connected Load Winter	\$1.73	—	
Maximum Demand Summer	—	\$13.26	
Maximum Demand Winter	—	\$2.67	
Primary Voltage Discount Summer	—	\$1.39	
Primary Voltage Discount Winter	—	\$0.37	
	—		
Total Energy Rates (\$ per kWh)			
Summer	\$0.31164	\$0.26695	
Winter	\$0.24126	\$0.20872	(L)

(Continued)



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 6

3. RATES: Total bundled service charges shown on customers' bills are unbundled according to the (L)
(Cont'd.) component rates shown below

UNBUNDLING OF TOTAL RATES

Customer Charge Rates: Customer charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand Rate by Components (\$ per kW)	Rate A	Rate B
Generation:		
Connected Load Summer	\$1.56	—
Connected Load Winter	\$0.00	—
Maximum Demand Summer	—	\$2.35
Maximum Demand Winter	—	\$0.00
Primary Voltage Discount Summer	—	\$0.87
Primary Voltage Discount Winter	—	\$0.00
Distribution**:		
Connected Load Summer	\$7.51	—
Connected Load Winter	\$1.73	—
Maximum Demand Summer	—	\$10.91
Maximum Demand Winter	—	\$2.67
Primary Voltage Discount Summer	—	\$0.52
Primary Voltage Discount Winter	—	\$0.37
Energy Rate by Components (\$ per kWh)		
Generation		
Summer	\$0.11331	\$0.11707
Winter	\$0.09188	\$0.09242
Distribution**		
Summer	\$0.15122	\$0.10369
Winter	\$0.10227	\$0.07011
Transmission*	\$0.02202	\$0.02202
Transmission Rate Adjustments*	\$0.00314	\$0.00314
Reliability Services*	(\$0.00041)	(\$0.00041)
Public Purpose Programs	\$0.01397	\$0.01305
Nuclear Decommissioning	\$0.00088	\$0.00088
Competition Transition Charges	\$0.00096	\$0.00096
Energy Cost Recovery Amount	(\$0.00057)	(\$0.00057)
DWR Bond	\$0.00580	\$0.00580
New System Generation Charge**	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000

- * Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.
 ** Distribution and New System Generation Charges are combined for presentation on customer bills.
 *** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 7

- | | | |
|--|--|-----|
| 4. ENERGY
CHARGE
CALCULA-
TION: | When summer and winter proration is required, charges will be based on the average daily use for the full billing period times the number of days in each period. | (L) |
| 5. CONTRACTS: | <p>Service under Schedule AG-1 is provided for a minimum of 12 months beginning with the date the customer's service commences. The customer may be required to sign a service contract with a minimum term of one year. After the initial one-year term has expired, the customer's contract will continue in effect until it is cancelled by the customer or PG&E.</p> <p>Where a line extension is required it will be installed under the provisions of Rules 15 and 16.</p> | |
| 6. CONNECTED
LOAD (Rate A
only): | <p>Connected load is defined as the sum of the rated capacities (as determined in accordance with Rule 2) of all equipment that is served through one metering point and that may be operated at the same time. When charges are based on connected load, in no case will charges be based on less than two horsepower/kilowatts for single-phase service, nor less than three horsepower/kilowatts for three-phase service.</p> <p>The customer's account will be adjusted for permanent connected-load changes that take place during the contract year. It is the customer's responsibility to notify PG&E of such changes. No adjustment will be made for temporary reduction in connected load. If the load is reconnected within 12 months of being disconnected, charges will be recalculated and applied retroactively as though no reduction in load had taken place.</p> | |
| 7. MAXIMUM
DEMAND: | If the customer is a Rate B customer, the maximum demand will be the number of kW the customer is using recorded over 15-minute intervals; the highest 15-minute average in any month will be the maximum demand for that month. Where the customer's use of electricity is intermittent or subject to abnormal fluctuation, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The welder load calculation will apply only in the season in which the customer usually uses energy, which will be assumed to be the summer season unless otherwise designated. | (L) |

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

December 9, 2019
March 1, 2020



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 8

7. MAXIMUM DEMAND:
(Cont'd.)
- In billing periods with use in both the summer season and winter season (April/May, October/November), the customer's total demand charge shall be calculated on a pro rata basis depending upon the demand charge and the number of days in each season. The maximum demand used in determining the demand charge for each season of the billing period will be: (1) the maximum demand created in each season's portion of the billing month as measured by a meter with such capability; or (2) the maximum demand for the billing month where the installed meter is incapable of measuring time-varying demands.
- For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.
- If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).
- To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).
8. DEFINITION OF SERVICE VOLTAGE:
- The following defines the three voltage classes of Schedule AG-1 rates. Standard Service Voltages are listed in Rule 2, Section B.1.
- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
 - b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- PG&E retains that right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option of taking service at the new voltage (and making whatever changes in their systems are necessary) or taking service without a voltage discount through transformers supplied by PG&E.

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

December 9, 2019
March 1, 2020



ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER

Sheet 9

9. SEASONS: Summer season begins on May 1 and ends on October 31. (L)

10. BILLING: A customer's bill is calculated based on the option applicable to the customer.

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

DA / CCA CRS

Energy Cost Recovery Amount Charge (per kWh)	(\$0.00057)
DWR Bond Charge (per kWh)	\$0.00580
CTC Charge (per kWh)	\$0.00096
Power Charge Indifference Adjustment (per kWh)	
2009 Vintage	\$0.01886
2010 Vintage	\$0.02186
2011 Vintage	\$0.02275
2012 Vintage	\$0.02378
2013 Vintage	\$0.02396
2014 Vintage	\$0.02398
2015 Vintage	\$0.02404
2016 Vintage	\$0.02394
2017 Vintage	\$0.02399
2018 Vintage	\$0.02406
2019 Vintage	\$0.02605

(L)

(Continued)



**ELECTRIC SCHEDULE AG-1
AGRICULTURAL POWER**

Sheet 10

11. STANDBY
APPLICA-
BILITY:

SOLAR GENERATION FACILITIES EXEMPTION: Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.

DISTRIBUTED ENERGY RESOURCES EXEMPTION: Any customer under a time of use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable standby reservation charges. Customers qualifying for an exemption shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to a time-of-use rate schedule to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (TOU) and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - Competition Transition Charge Responsibility for All Customers and CTC Procurement, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.

12. DWR BOND
CHARGE:

The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.

(L)

(L)



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 1

1. APPLICABILITY: A customer will be served under this schedule if 70% or more of the annual energy use on the meter is for agricultural end-uses. Agricultural end-uses consist of: (N)
- (a) growing crops;
 - (b) raising livestock;
 - (c) pumping water for irrigation of crops; or
 - (d) other uses which involve production for sale.
- Only agricultural end-uses performed prior to the First Sale of the agricultural product are agricultural end-uses under this criteria, except for the following activities, which are also agricultural end-uses under this criteria: (a) packing and packaging of the agricultural products following the First Sale and before any subsequent sale, and (b) agricultural end-uses by nonprofit cooperatives. Guidelines for interpreting this applicability statement are set forthwith in Section D of the Rule 1 Definition 'Qualification for Agricultural Rates'.
- None of the above activities may process the agricultural product. Residential dwelling, office, and retail usage are not agricultural end-uses.
- The Rule 1 definition 'Qualification for Agricultural Rates' specifies additional activities and meters that will also be served on agricultural rates, and guidelines through the following sections: (B) Other Activities and Meters Also Served on Agricultural Rates, (C) Specific Applications of the March 2, 2006 Applicability Criteria, and (D) Guidelines for Applying the Applicability Criteria. (N)
(D)
- The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule AG-4 charges. Exemptions to standby charges are outlined in the Standby Applicability Section of this rate schedule. (L)

(Continued)



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 2

1. APPLICABILITY: Depending upon the end-use of electricity and whether or not a Time-Of-Use Installation or Time-Of-Use Processing Charge applied prior to May 1, 2006, the customer will be served under one of the rates under Schedule AG-4: Rate A, B, C, D, E or F.
(Cont'd.)

Rates A and D: Applies to single-motor installations with a connected load rated less than 35 horsepower and to all multi-load installations aggregating less than 15 horsepower or kilowatts. Rate D applies to customers who were on Rate D as of May 1, 2006 and are not billed via SmartMeter™. Rate A applies to all other customers.

Rates B, C, E, and F: Applies to single-motor installations rated 35 horsepower or more, to multi-load installations aggregating 15 horsepower or kilowatts or more, and to "overloaded" motors. The customer's end-use is determined to be overloaded when the measured input to any motor rated 15 horsepower or more is determined by PG&E to exceed one kilowatt per horsepower of nameplate rated output. Rates E and F apply to customers who were on Rates E and F as of May 1, 2006 and are not billed via SmartMeter™. Rates B and C apply to all other customers.

Rates B and C will apply to those customers whose maximum demand is 200 kW or greater for three consecutive months and select this schedule upon the initial installation of the interval data meter, unless the customer was on Rate E or F as of May 1, 2006 and is not billed via SmartMeter™.

(L)
|
(L)

Decision 18-08-013 adopted new TOU periods and new seasonal definitions for all non-residential customer classes, as well as new rates for the Agricultural customer class. Schedules AG-1, AG-4, AG-5, AG-R and AG-V will be retained as legacy rate schedules with their current TOU periods until the rates with revised TOU periods (Schedules AG and AG-F) established in the same proceeding, become mandatory in March 2021.

(N)

Decision 19-05-010 adopted additional modifications to the agricultural rates adopted in Decision 18-08-013 and delays the mandatory transition until March 2022 for highly impacted agricultural customers, defined as those customers with potential bill increases greater than 7 percent and \$100 annually due to the transition to the rates with revised TOU periods. In addition, certain qualifying customers with solar systems will be permitted to maintain their current TOU periods for a certain period of time, per Decision 17-01-006, as described in Electric Rule 1, Definitions: Behind the Meter Solar TOU Grandfathering and Eligibility Requirements.

(N)

(Continued)

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ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 3

1. APPLICABILITY: The new rates with revised TOU periods adopted in D.18-08-013 and modified in D.19-05-010 will be available on a voluntary basis for qualifying customers beginning March 1, 2020. During this voluntary period from March 1, 2020 through February 28, 2021:

(N)

Schedule AG, with revised TOU periods, will be available for voluntary enrollment for customers with interval meters that can be remotely read by PG&E.

Legacy rate schedules, including Schedule AG-4, will be closed to all new enrollment. Customers requesting to establish service on Schedule AG-4, where an interval data meter that can be read remotely by PG&E is already in place, will be placed on the new Schedule AG with revised TOU periods. Customers requesting to establish service on Schedule AG-4 that do not have a meter capable of billing on the new Schedule AG, may take service on this schedule.

Customers taking service under Schedule AG-4 at the time rates with new TOU periods become available, may transfer to new Schedule AG or Schedule AG-F, with revised TOU periods, may remain on this rate until rates with revised TOU periods become mandatory, in March 2021, or, on an exceptions basis, may request to transfer to another legacy rate pursuant to Electric Rule 12, Section C, or in accordance with Electric Rule 1 as referenced above, for solar grandfathered customers.

Beginning March 2021, customers served under Schedule AG-4 will transition to the rate plans under Schedule AG with revised TOU periods on a mandatory basis or may elect service under optional Schedule AG-F or any other rate plan for which they are eligible.

Customers on AG-4A or AG-4D, with an interval meter that have at least twelve (12) billing months hourly usage data available, and a maximum demand less than 35 kW, will transition to rate AG-A1 under Schedule AG, or may elect to enroll in AG-A2 or AG-FA under Schedule AG-F.

Customers on AG-4A or AG-4D, with a maximum demand of 35 kW or greater, for three consecutive months in the most recent twelve months, or on AG-4B, AG-4C, AG-4E or AG-4F will transition to AG-B under Schedule AG, or may elect to enroll in AG-C, or AG-FB or AG-FC under Schedule AG-F.

Summarized below:

Legacy Rate	Defaults to service under Schedule AG:	Or May Opt-In to
AG-4A/D < 35 kW	<u>AG-A1</u>	AG-A2, AG-FA
AG-4A/D >= 35 kW	<u>AG-B</u>	AG-C, AG-FB, AG-FC
AG-4B/E, AG-4C/F	<u>AG-B</u>	AG-C, AG-FB, AG-FC

(N)

(Continued)

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ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 4

1. APPLICABILITY: The transition of customers no longer eligible for AG-4 to Schedule AG with revised TOU periods will occur on the start of the customer's March billing cycle. Customers will have at least 45-days' notice prior to their scheduled transition date, during which they will continue to take service on this rate schedule. Customers may elect any applicable rate plan with revised TOU periods, based on their eligibility, up to five (5) days prior to the planned transition date to the new Schedule AG.

(N)

Exemptions to the mandatory transitions beginning in March 2021 include:

Qualifying customers with solar systems who meet the requirements in Rule 1 Definition of "Behind-the-Meter Solar TOU Period Grandfathering" and the terms of "Behind-the-Meter Solar TOU Period Grandfathering Eligibility Requirements" shall be permitted to maintain their legacy TOU rate periods, until the date ten years after their system received its permission to operate (but in no event beyond December 31, 2027 (for public schools) or July 31, 2027 (for all other qualifying). However, rates for those TOU rate periods will be updated with new rates as authorized in applicable PG&E rate proceedings and advice filings.

"Highly impacted" customers, defined as those agricultural customers with potential bill increases greater than 7 percent and \$100 annually due to the transition, may remain on their legacy rate schedule for an additional year but must transition to the new rates with revised TOU periods in March 2022. Decision 19-05-010 delays the mandatory transition to rates with revised TOU periods for these "highly impacted" customers and clarifies that net energy metering (NEM) customers, direct access customers, and community choice aggregation customers and accounts beginning service on or after August 9, 2018 are not eligible for "highly impacted" subgroup exemptions from the mandatory TOU transition in March 2021.

Customers that do not have a meter that is capable of billing on the new Schedule AG on or after March 2021, may continue service on this schedule until they receive an interval meter and have at least twelve (12) months of hourly usage data available.

The mandatory transition process will occur each March to transition all applicable remaining AG-4 customers to the rates with revised TOU periods as described above.

All AG-4A and AG-4D customers will convert from connected load demand to metered demand in March 2022 for customers with meters having that capability.

(N)

The meters required for this schedule may become obsolete as a result of electric industry restructuring or other action by the California Public Utilities Commission. Therefore, any and all risks of paying the required charges and not receiving commensurate benefit are entirely that of the customer.

(L)

Ongoing daily Time-of-Use (TOU) meter charges applicable to customers taking voluntary TOU service under this rate schedule will no longer be applied if the customer has a SmartMeter™ installed.

(L)

(Continued)



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 5

1. APPLICABILITY: **Transfers Off of Schedule AG-4:** After being placed on this schedule due to the 200 kW or greater provisions of this schedule, customers who fail to exceed 199 kilowatts for 12 consecutive months may elect to stay on this schedule or alternate time-of-use rate schedule

(L)

Peak Day Pricing Default Rates: Peak Day Pricing (PDP) rates provide customers the opportunity to manage their electric costs by reducing load during high cost periods or shifting load from high cost periods to lower cost periods. Decision 10-02-032 ordered that beginning February 1, 2011, eligible Agricultural customers default to PDP rates. A customer is eligible for default when 1) it has at least twelve (12) billing months of hourly usage data available, and 2) it has measured demands equal to or exceeding 200 kW for three (3) consecutive months during the past 12 months. All eligible customers will be placed on PDP rates unless they opt-out.

Customers that do not meet default eligibility may voluntarily elect to enroll on PDP rates.

Bundled service customers are eligible for PDP. Direct Access (DA) and Community Choice Aggregation (CCA) service customers are not eligible, including those DA customers on transitional bundled service (TBS). Customers on standby service (Schedule S) or on net-energy metering Schedules NEMFC, NEMBIO, NEMCCSF, or NEMA, are not eligible for PDP.

Decision 18-08-013 temporarily suspends the default of eligible AG-4 customers to PDP beginning March 1, 2019.

For additional details and program specifics, see the Peak Day Pricing Details section below.

(L)

(L)(D)

(L)(D)

2. TERRITORY: Schedule AG-4 applies everywhere PG&E provides electricity service.

(L)

(Continued)

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**ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER**

Sheet 6

2. TERRITORY: Schedule AG-4 applies everywhere PG&E provides electricity service. (L)
3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

Total Customer/Meter Charge Rates	Rate A,D	Rate B,E	Rate C,F	
Customer Charge (\$ per meter per day)	\$0.57400	\$0.76313	\$2.15003	
TOU Meter Charge (\$ per meter per day) (for rate A, B & C)	\$0.22341	\$0.19713	\$0.19713	
TOU Meter Charge (\$ per meter per day) (for rate D, E & F)	\$0.06571	\$0.03943	\$0.03943	
Total Demand Rates (\$ per kW)				
Connected Load Summer	\$9.23	—	—	
Connected Load Winter	\$1.39	—	—	
Maximum Demand Summer	—	\$11.26	\$5.79	
Maximum Demand Winter	—	\$2.59	\$2.79	
Maximum Peak Demand Summer	—	\$5.98	\$14.16	
Maximum Part-Peak Demand Summer	—	—	\$2.70	
Maximum Part-Peak Demand Winter	—	—	\$0.63	
Primary Voltage Discount Summer (B, E per Maximum Demand; C, F per Maximum Peak Demand)	—	\$1.20	\$1.56	
Primary Voltage Discount Winter (B, E, C, F per Maximum Demand)	—	\$0.40	\$0.36	
Transmission Voltage Discount				
Maximum Peak Demand Summer	—	—	\$7.39	
Maximum Part-Peak Demand Summer	—	—	\$1.51	
Maximum Demand Summer	—	—	\$0.28	
Maximum Part-Peak Demand Winter	—	—	\$0.63	
Maximum Demand Winter	—	—	\$1.94	
Total Energy Rates (\$ per kWh)				
Peak Summer	\$0.49345	\$0.32481	\$0.29832	
Part-Peak Summer	—	—	\$0.17563	
Off-Peak Summer	\$0.21900	\$0.17617	\$0.13274	
Part-Peak Winter	\$0.22648	\$0.17660	\$0.14687	
Off-Peak Winter	\$0.18454	\$0.14913	\$0.12776	(L)

(Continued)



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 7

3. RATES:
(Cont'd.)

(L)

TOTAL RATES (Cont'd.)

PDP Rates (Rate A and C Options Only)

	<u>RATE A</u>	<u>RATE C</u>
<u>PDP Charges (\$ per kWh)</u>		
All Usage During PDP Event	\$1.00	\$1.00
<u>PDP Credits</u>		
<u>Demand (\$ per kW)</u>		
Peak Summer	-	(\$1.97)
Part-Peak Summer	-	(\$0.34)
Connected Load	(\$1.00)	-
<u>Energy (\$ per kWh)</u>		
Peak Summer	(\$0.02925)	\$0.00000

(L)

(Continued)

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ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 8

3. **RATES:** Total bundled service charges shown on customers' bills are unbundled according to the (L)
(Cont'd.): component rates shown below. PDP charges and credits are all generation and are not included below

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer/Meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand Rates by Component (\$ per kW)	Rate A,D	Rate B,E	Rate C,F
<u>Generation:</u>			
Connected Load Summer	\$1.58	—	—
Connected Load Winter	\$0.00	—	—
Maximum Demand Summer	—	\$2.78	\$0.00
Maximum Demand Winter	—	\$0.00	\$0.00
Maximum Peak Demand Summer	—	\$2.96	\$6.87
Maximum Part-Peak Demand Summer	—	—	\$1.17
Maximum Part-Peak Demand Winter	—	—	\$0.00
Primary Voltage Discount Summer (B, E per Maximum Demand; C, F per Maximum Peak Demand)	—	\$0.69	\$1.19
Primary Voltage Discount Winter (B, E, C, F per Maximum Demand)	—	\$0.00	\$0.00
Transmission Voltage Discount			
Maximum Peak Demand Summer	—	—	\$2.19
Maximum Part-Peak Demand Summer	—	—	(\$0.02)
Maximum Demand Summer	—	—	\$0.00
Maximum Part-Peak Demand Winter	—	—	\$0.00
Maximum Demand Winter	—	—	\$0.00
<u>Distribution**:</u>			
Connected Load Summer	\$7.65	—	—
Connected Load Winter	\$1.39	—	—
Maximum Demand Summer	—	\$8.48	\$5.79
Maximum Demand Winter	—	\$2.59	\$2.79
Maximum Peak Demand Summer	—	\$3.02	\$7.29
Maximum Part-Peak Demand Summer	—	—	\$1.53
Maximum Part-Peak Demand Winter	—	—	\$0.63
Primary Voltage Discount Summer (B, E per Maximum Demand; C, F per Maximum Peak Demand)	—	\$0.51	\$0.37
Primary Voltage Discount Winter (B, E, C, F per Maximum Demand)	—	\$0.40	\$0.36
Transmission Voltage Discount			
Maximum Peak Demand Summer	—	—	\$5.20
Maximum Part-Peak Demand Summer	—	—	\$1.53
Maximum Demand Summer	—	—	\$0.28
Maximum Part-Peak Demand Winter	—	—	\$0.63
Maximum Demand Winter	—	—	\$1.94

** Distribution and New System Generation Charges are combined for presentation on customer bills.

(Continued)

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Decision	D.18-08-013 and D.19-05-010	Robert S. Kenney Vice President, Regulatory Affairs	Effective Resolution	March 1, 2020



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 9

3.	RATES:				(L)
	(Cont'd.):				
	UNBUNDLING OF TOTAL RATES (Cont'd.)				
Energy Rates by Component (\$ per kWh)		Rate A,D	Rate B,E	Rate C,F	
Generation:					
	Peak Summer	\$0.18140	\$0.13886	\$0.15952	
	Part-Peak Summer	—	—	\$0.09188	
	Off-Peak Summer	\$0.08095	\$0.08229	\$0.06729	
	Part-Peak Winter	\$0.08551	\$0.08035	\$0.07428	
	Off-Peak Winter	\$0.07354	\$0.06898	\$0.06372	
Distribution**:					
	Peak Summer	\$0.26494	\$0.13976	\$0.09261	
	Part-Peak Summer	—	—	\$0.03756	
	Off-Peak Summer	\$0.09094	\$0.04769	\$0.01926	
	Part-Peak Winter	\$0.09386	\$0.05006	\$0.02640	
	Off-Peak Winter	\$0.06389	\$0.03396	\$0.01785	(L)

** Distribution and New System Generation Charges are combined for presentation on customer bills.

(Continued)

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**ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER**

Sheet 10

3. RATES:
(Cont'd.)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Energy Rates by Component (\$ per kWh)	Rate A,D	Rate B,E	Rate C,F	(L)
Transmission* (all usage)	\$0.02202	\$0.02202	\$0.02202	
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314	\$0.00314	
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)	(\$0.00041)	
Public Purpose Programs (all usage)	\$0.01397	\$0.01305	\$0.01305	
Nuclear Decommissioning (all usage)	\$0.00088	\$0.00088	\$0.00088	
Competition Transition Charges (all usage)	\$0.00096	\$0.00096	\$0.00096	
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)	(\$0.00057)	
DWR Bond (all usage)	\$0.00580	\$0.00580	\$0.00580	
New System Generation Charge (all usage)**	\$0.00132	\$0.00132	\$0.00132	
California Climate Credit (all usage)***	\$0.00000	\$0.00000	\$0.00000	(L)

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)

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ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 11

4. **METERING REQUIREMENTS** : (L)
- PG&E will install a time-of-use meter that is appropriate for this schedule that measures and registers the amount of electricity a customer uses. |
- Customers with a maximum billing demand of 200 kW or greater for three consecutive months must have an interval data meter that can be read remotely by PG&E except customers that are identified as load research sites. A Meter Data Management Agent (MDMA) may also read the customer's meter on behalf of the customer's Energy Service Provider (ESP) if a customer is receiving Direct Access Service. |
- For bundled service customers with a maximum demand of 200 kW or greater for three consecutive months, PG&E will provide and install the interval data meter at no cost to the customer. After the interval meter is installed, the customer must take service on a time-of-use rate schedule. The installation of an interval data meter for customers taking service under the provisions of Direct Access is the responsibility of the customer's Energy Service Provider, or their Agent, and must be installed in accordance with Electric Rule 22. |
- If the customer does not currently qualify for an interval data meter, the customer must pay PG&E for the cost of purchasing and installing an interval meter, together with applicable Income Tax Component of Contribution (ITCC) charges and the cost to operate and maintain the interval meter, and must sign an Interval Meter Installation Service Agreement (Form 79-984). |
- Customers who also request any meter data management services must also sign an Interval Meter Data Management Service Agreement (Form 79-985) and must have an appropriate interval data meter. (L)

(Continued)



**ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER**

Sheet 12

5. TIME PERIODS Seasons of the year and times of the day are defined as follows: (L)
- SUMMER: Service from May 1 through October 31.
- For Rates A, B, D, and E
- | | | |
|-----------|----------------------------|---|
| Peak: | 12:00 noon to 6:00 p.m. | Monday through Friday* |
| Off-Peak: | All other hours
All day | Monday through Friday
Saturday, Sunday, Holidays |
- For Rates C and F
- | | | |
|---------------|---|---|
| Peak: | 12:00 noon to 6:00 p.m. | Monday through Friday* |
| Partial-Peak: | 8:30 a.m. to 12:00 p.m.
6:00 p.m. to 9:30 p.m. | Monday through Friday*
Monday through Friday* |
| Off-Peak: | 9:30 p.m. to 8:30 a.m.
All day | Monday through Friday
Saturday, Sunday, Holidays |
- WINTER: Service from November 1 through April 30.
- For Rates A, B, C, D, E, and F
- | | | |
|---------------|----------------------------|---|
| Partial-Peak: | 8:30 a.m. to 9:30 p.m. | Monday through Friday* |
| Off-Peak: | All other hours
All day | Monday through Friday
Saturday, Sunday, Holidays |
- "Holidays" for the purpose of this rate schedule are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, and Christmas Day. The dates will be those on which the holidays are legally observed.
- *Except holidays.
- DAYLIGHT SAVING TIME ADJUSTMENT: The time periods shown above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April, and for the period between the last Sunday in October and the first Sunday in November.
6. ENERGY CHARGE CALCULATION: When summer and winter proration is required, charges will be based on the average daily use for the full billing period times the number of days in each period. (L)

(Continued)

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ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 13

- | | | |
|---|--|-----|
| 7. SERVICE CONTRACT: | Service under Schedule AG-4 is provided for a minimum of 12 months beginning with the date service commences. The customer may be required to sign a service contract with a minimum term of one year. After the initial one-year term has expired, the contract will continue in effect until it is cancelled by the customer or PG&E. | (L) |
| | Where a line extension is required, it will be installed under the provisions of Rules 15 and 16. | |
| 8. CONNECTED LOAD
(Rates A and D only): | Connected load is defined as the sum of the rated capacities (as determined in accordance with Rule 2) of all equipment that is served through one metering point and that may be operated at the same time. When charges are based on connected load, in no case will charges be based on less than two horsepower/kilowatts for single-phase service, nor less than three horsepower/kilowatts for three-phase service. | |
| | The customer's account will be adjusted for permanent connected-load changes that take place during the contract year. It is the customer's responsibility to notify PG&E of such changes. No adjustment will be made for a temporary reduction in connected load. If the load is reconnected within 12 months of being disconnected, the charges will be recalculated and applied retroactively as though no reduction in load had taken place. | |
| 9. MAXIMUM DEMAND
(Rates B, C, E, and F Only): | The maximum demand will be the number of kW the customer is using recorded over 15-minute intervals; the highest 15-minute average in any month for Rates B, C, E and F customers will be the maximum demand for that month. Where the customer's use of electricity is intermittent or subject to abnormal fluctuation, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The welder load calculation will apply only in the season in which the customer usually uses energy, which will be assumed to be the summer season unless otherwise designated. | (L) |

(Continued)



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 14

- | | | |
|---|--|------------|
| <p>9. MAXIMUM DEMAND
(Rates B, C, E, and F Only):
(Cont'd.)</p> | <p>In billing periods with use in both the summer season and winter season (April/May, October/November), the customer's <u>total demand charge</u> shall be calculated on a pro rata basis depending upon the demand charge and the number of days in each season. The maximum demand used in determining the customer's demand charge for each season of the billing period will be: (1) the maximum demand created in each season's portion of the billing month as measured by a meter with such capability; or (2) the maximum demand for the billing month where the installed meter is incapable of measuring time-varying demands.</p> <p>For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.</p> <p>If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).</p> <p>To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).</p> | <p>(L)</p> |
| <p>10. MAXIMUM-PEAK-PERIOD DEMAND
(Rates B, C, E and F Only):</p> | <p>The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month.</p> | <p> </p> |
| <p>11. MAXIMUM-PART-PEAK-PERIOD DEMAND
(Rates C and F Only):</p> | <p>The customer's maximum-part-peak-period demand will be the highest of all the 15-minute averages for the part-peak period during the billing month.</p> | <p> </p> |

(Continued)



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 15

12. DEFINITION OF SERVICE VOLTAGE: The following defines the three voltage classes of Schedule AG-4 rates. Standard Service Voltages are listed in Rule 2, Section B.1. (L)
- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
 - b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- PG&E retains the right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option not taking service at the new voltage (and making whatever changes in their system are necessary) or taking service without a voltage discount through transformers supplied by PG&E.
13. BILLING: A customer's bill is calculated based on the option applicable to the customer.
- Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.
- Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.
- Direct Access (DA) and Community Choice Aggregation (CCA) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.
- | | <u>DA / CCA CRS</u> |
|--|---------------------|
| Energy Cost Recovery Amount Charge (per kWh) | (\$0.00057) |
| DWR Bond Charge (per kWh) | \$0.00580 |
| CTC Charge (per kWh) | \$0.00096 |
| Power Charge Indifference Adjustment (per kWh) | |
| 2009 Vintage | \$0.01886 |
| 2010 Vintage | \$0.02186 |
| 2011 Vintage | \$0.02275 |
| 2012 Vintage | \$0.02378 |
| 2013 Vintage | \$0.02396 |
| 2014 Vintage | \$0.02398 |
| 2015 Vintage | \$0.02404 |
| 2016 Vintage | \$0.02394 |
| 2017 Vintage | \$0.02399 |
| 2018 Vintage | \$0.02406 |
| 2019 Vintage | \$0.02605 |
- (L)

(Continued)



San Francisco, California

Cal. P.U.C. Sheet No. 45811-E
Cal. P.U.C. Sheet No. 30998-E

Sheet 16

- | | |
|----------------------------|--|
| 14. STANDBY APPLICABILITY: | <p>SOLAR GENERATION FACILITIES EXEMPTION: Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.</p> <p>DISTRIBUTED ENERGY RESOURCES EXEMPTION: Any customer under a time-of-use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable standby reservation charges. Customers qualifying for this exemption shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take time-of-use service to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (TOU) and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - <i>Competition Transition Charge Responsibility for All Customers and CTC Procurement</i>, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.</p> |
| 15. DWR BOND CHARGE: | <p>The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.</p> |

(Continued)

<i>Submitted</i>	December 9, 2019
<i>Effective</i>	March 1, 2020
<i>Resolution</i>	



**ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER**

Sheet 17

**16. PEAK DAY
PRICING
DETAILS:**

- a. Default Provision: Decision 18-08-013 adopted new TOU periods for all non-residential customer classes. The Decision also suspends the default of eligible AG-4 customers to PDP beginning March 1, 2019 until rates with new TOU periods, as adopted in the same Decision, become mandatory. The rates with new TOU periods are expected to become mandatory for agricultural customers in March 2021, concurrent with the resumption of the default of eligible customers to PDP.

The default of eligible customers to PDP will occur once per year with the start of their billing cycle on or after March 1. Eligible customers will have at least 45-days notice prior to their planned default date when they may opt-out of PDP rates to take service on TOU rates. During the 45-day period, customers will continue to take service on their non-PDP rate. Customers may elect any applicable PDP rate. However, if the customers taking service on this schedule have not made that choice or elected to opt-out to a TOU at least five (5) days before their proposed default date, their service will be defaulted to the PDP version of this rate schedule. Existing customers on a PDP rate eligible demand response program will have the option to enroll.

Bundled service Net Energy Metering (NEM) customers taking service on Schedule NEM, NEMV, NEMVMASH, NEM2, NEM2V, or NEM2VMSH are eligible for default and opt-in PDP. NEM customers on NEMBIO, NEMFC, NEMCCSF, and NEMA are not eligible for PDP. The NEM Annual True-Up billing date, and the first year PDP Bill Stabilization date in section b below, may be independent 12 month periods. After the first year on PDP, NEM credits can offset PDP charges. PDP credits and charges will be provided for exported generation. All PDP billing for NEM customers will be based on net usage during each 15-minute interval.

- b. Bill Stabilization: PDP customers will be offered bill stabilization for the initial twelve (12) months unless they opt-out during their initial 45-day period. Bill stabilization ensures that during the initial 12 months under PDP, the customer will not pay more than it would have had it opted-out to the applicable TOU rate.

If a customer terminates its participation on the PDP rate prior to the initial 12 month period expiring, the customer will receive bill stabilization up to the date when the customer terminates its participation. Bill stabilization benefits will be computed on a cumulative basis, based on the earlier of 1) when a customer terminates its participation on the PDP rate or 2) at the end of the initial 12-month period. Any applicable credits will be applied to the customer's account on a subsequent regular bill. Bill stabilization is only available one time per customer. If a customer un-enrolls or terminates their participation on a PDP rate, bill stabilization will not be offered again.

(L)

(L)

(Continued)



San Francisco, California

Cal. P.U.C. Sheet No. 45813-E
Cal. P.U.C. Sheet No. 31000-E

Sheet 18

- | | | | |
|--|----|---|-----|
| 16. PEAK DAY PRICING DETAILS (CONT'D): | c. | Notification Equipment: At the customer's option and expense, it is recommended, but not required that a customer provide a phone number or an e-mail address to receive automated notification messages of a PDP event from PG&E.

If a PDP event occurs, customers will be notified using one or more of the above-mentioned systems. Receipt of such notice is the responsibility of the participating customer. PG&E will make reasonable efforts to notify customers, however it is the customer's responsibility to receive such notice and to check the PG&E website to see if a PDP event has been activated. It is also the customer's responsibility to maintain accurate notification contact information. PG&E does not guarantee the reliability of the phone, e-mail system, or Internet site by which the customer receives notification.

PG&E may conduct notification test events once a month to ensure a customer's contact information is up-to-date. These are not actual PDP events and no load reduction is required. | (L) |
| | d. | Demand Response Operations Website: Customers with demands of 200 kW or greater for three consecutive months can use PG&E's demand response operations website located at https://inter-act.pge.com for load curtailment event notifications and communications.

The customer's actual energy usage is available at PG&E's demand response operations website or on "My Account". This data may not match billing quality data, and the customer understands and agrees that the data posted to PG&E's demand response operations website or "My Account" may be different from the actual bill. | |
| | e. | Program Operations: A maximum of fifteen (15) PDP events and a minimum of nine (9) PDP events may be called in any calendar year. PG&E will notify customers by 2:00 p.m. on a day-ahead basis when a PDP event will occur the next day. The PDP program will operate year-round and PDP events may be called for any day of the week. | |
| | f. | Event Cancellation: PG&E may initiate the cancellation of a PDP event before 4:00 p.m. the day-ahead of a noticed PDP event. If PG&E cancels an event, it will count the cancelled event toward the PDP limits. | (L) |

(Continued)

<i>Submitted</i>	December 9, 2019
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<i>Resolution</i>	



ELECTRIC SCHEDULE AG-4
TIME-OF-USE AGRICULTURAL POWER

Sheet 19

16. PEAK DAY
PRICING
DETAILS
(CONT'D):

- g. Program Options: Customers may customize their PDP participation by choosing either a) no limit on the number of consecutive PDP events or b) every other PDP event. Customers electing every other PDP event will be divided into two groups and only be subject to a maximum of one-half of the PDP events called and the corresponding PDP rate credits will be reduced by 50%. Customers that do not elect an option will be defaulted to the no limit on the number of consecutive PDP events. The duration of PDP Event Operations for both options will be from 2:00 p.m. to 6:00 p.m. (four-hour window).
- h. Event Trigger: PG&E will trigger a PDP event when the day-ahead temperature forecast trigger is reached. The trigger will be the average of the day-ahead maximum temperature forecasts for San Jose, Concord, Red Bluff, Sacramento and Fresno.
- Beginning May 1 of each summer season, the PDP events on non-holiday weekdays will be triggered at 98 degrees Fahrenheit (°F), and will be triggered at 105°F on holidays and weekends. If needed, PG&E will adjust the non-holiday weekday trigger up or down over the course of the summer to achieve the range of 9 to 15 PDP events in any calendar year. Such adjustments would be made no more than twice per month and would be posted to the demand response operations website or on PG&E's PDP website.
- PDP events may also be initiated as warranted on a day-ahead basis by 1) extreme system conditions such as special alerts issued by the California Independent System Operator, 2) under conditions of high forecasted California spot market power prices, 3) to meet annual PDP event limits for a calendar year, or 4) for testing/evaluation purposes.
- i. Program Terms: A customer may opt-out anytime during their initial 12 months on a PDP rate. After the initial 12 months, customer's participation will be in accordance with Electric Rule 12.
- Customers may opt-out of a PDP rate at anytime to enroll in another demand response program beginning May 1, 2011.
- j. Interaction with Other PG&E Demand Response Programs: Pursuant to D.18-11-029, customers on a PDP rate may no longer participate in another demand response program offered by PG&E or a third-party demand response provider as of October 26, 2018. If dual enrolled in BIP and PDP prior to October 26, 2018 then participation will be capped at the customer's subscribed megawatt level as of December 10, 2018. New dual enrollment in BIP and PDP as of October 26, 2018 is no longer available. If a NEM customer is on PDP, the customer cannot participate in a third party Demand Response program unless it ceases to be a PDP customer. If a third party signs a NEM customer up under Rule 24 at the CAISO, the customer is automatically removed from PDP.

(L)

(L)



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 1

1. APPLICABILITY: A customer will be served under this schedule if 70% or more of the annual energy use on the meter is for agricultural end-uses. Agricultural end-uses consist of: (N)
- (a) growing crops;
 - (b) raising livestock;
 - (c) pumping water for irrigation of crops; or
 - (d) other uses which involve production for sale.
- Only agricultural end-uses performed prior to the First Sale of the agricultural product are agricultural end-uses under this criteria, except for the following activities, which are also agricultural end-uses under this criteria: (a) packing and packaging of the agricultural products following the First Sale and before any subsequent sale, and (b) agricultural end-uses by nonprofit cooperatives. Guidelines for interpreting this applicability statement are set forthwith in Section D of the Rule 1 Definition 'Qualification for Agricultural Rates'.
- None of the above activities may process the agricultural product. Residential dwelling, office, and retail usage are not agricultural end-uses.
- The Rule 1 definition 'Qualification for Agricultural Rates' specifies additional activities and meters that will also be served on agricultural rates, and guidelines through the following sections: (B) Other Activities and Meters Also Served on Agricultural Rates, (C) Specific Applications of the March 2, 2006 Applicability Criteria, and (D) Guidelines for Applying the Applicability Criteria. (N)
- The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule AG-5 charges. Exemptions to standby charges are outlined in the Standby Applicability Section of this rate schedule. (D)
- (L)

(Continued)

Advice 2948-E-A
Decision 06-11-030

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Date Filed January 18, 2007
Effective November 30, 2006
Resolution



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 2

1. APPLICABILITY: Depending upon the end-use of electricity and whether or not a Time-Of-Use
(Cont'd.) Installation or Time-Of-Use Processing charge applied prior to May 1, 2006, the
customer will be served under one of the rates under Schedule AG-5: Rate A, B, C, D,
E or F.

Rates A and D: Applies to single-motor installations with a connected load rated
less than 35 horsepower and to all multi-load installations
aggregating less than 15 horsepower or kilowatts. Rate D
applies to customers who were on Rate D as of May 1, 2006
and are not billed via SmartMeter™. Rate A applies to all other
customers.

Rates B, C, E, and F: Applies to single-motor installations rated 35 horsepower or
more, to multi-load installations aggregating 15 horsepower or
kilowatts or more, and to overloaded motors. The customer's
end-use is determined to be overloaded when the measured
input to any motor rated 15 horsepower or more is determined
by PG&E to exceed one kilowatt per horsepower of nameplate
rated output. Rates E and F apply to customers who were on
Rates E and F as of May 1, 2006 and are not billed via
SmartMeter™. Rates B and C apply to all other customers.

Rates B and C will apply to customers whose maximum demand is 200 kW or greater
for three consecutive months and select this schedule upon the initial installation of the
interval data meter, unless the customer was on Rate E or F as of May 1, 2006 and is
not billed via SmartMeter™.

(L)

(L)

Decision 18-08-013 adopted new TOU periods and new seasonal definitions for all
non-residential customer classes, as well as new rates for the Agricultural customer
class. Schedules AG-1, AG-4, AG-5, AG-R and AG-V will be retained as legacy rate
schedules with their current TOU periods until the rates with revised TOU periods
(Schedules AG and AG-F) established in the same proceeding, become mandatory in
March 2021.

(N)

Decision 19-05-010 adopted additional modifications to the agricultural rates adopted in
Decision 18-08-013 and delays the mandatory transition until March 2022 for highly
impacted agricultural customers, defined as those customers with potential bill
increases greater than 7 percent and \$100 annually due to the transition to the rates
with revised TOU periods. In addition, certain qualifying customers with solar systems
will be permitted to maintain their current TOU periods for a certain period of time, per
Decision 17-01-006, as described in Electric Rule 1, Definitions: Behind the Meter Solar
TOU Grandfathering and Eligibility Requirements.

(N)

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

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Robert S. Kenney
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December 9, 2019
March 1, 2020



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 3

1. APPLICABILITY: The new rates with revised TOU periods adopted in D.18-08-013 and modified in D.19-05-010 will be available on a voluntary basis for qualifying customers beginning March 1, 2020. During this voluntary period from March 1, 2020 through February 28, 2021:

(N)

Schedule AG, with revised TOU periods, will be available for voluntary enrollment for customers with interval meters that can be remotely read by PG&E.

Legacy rate schedules, including Schedule AG-5, will be closed to all new enrollment. Customers requesting to establish service on Schedule AG-5, where an interval data meter that can be read remotely by PG&E is already in place, will be placed on the new Schedule AG with revised TOU periods. Customers requesting to establish service on Schedule AG-5 that do not have a meter capable of billing on the new Schedule AG, may take service on this schedule.

Customers taking service under Schedule AG-5 at the time rates with new TOU periods become available, may transfer to new Schedule AG or Schedule AG-F, with revised TOU periods, may remain on this rate until rates with revised TOU periods become mandatory, in March 2021, or, on an exceptions basis, may request to transfer to another legacy rate pursuant to Electric Rule 12, Section C, or in accordance with Electric Rule 1 as referenced above, for solar grandfathered customers.

Beginning March 2021, customers served under Schedule AG-5 will transition to the rate plans under Schedule AG with revised TOU periods on a mandatory basis or may elect service under optional Schedule AG-F or any other rate plan for which they are eligible.

Customers on AG-5A or AG-5D, with an interval meter that have at least twelve (12) billing months hourly usage data available, and a maximum demand less than 35 kW, will transition to rate AG-A2 under Schedule AG, or may elect to enroll in AG-A1 or AG-FA under Schedule AG-F.

Customers on AG-5A or AG-5D, with a maximum demand of 35 kW or greater, for three consecutive months in the most recent twelve months, will transition to AG-B under Schedule AG, or may elect to enroll in AG-C, or AG-FB or AG-FC under Schedule AG-F.

Customers on AG-5B, AG-5C, AG-5E or AG-5F will transition to AG-C under Schedule AG, or may elect to enroll in AG-B, or AG-FB or AG-FC under Schedule AG-F.

Summarized below:

Legacy Rate	Defaults to service under Schedule AG:	Or May Opt-In to
AG-5A/D < 35 kW	<u>AG-A2</u>	AG-A1, AG-FA
AG-5A/D >= 35 kW	<u>AG-B</u>	AG-C, AG-FB, AG-FC
AG-5B/E, AG-5C/F	<u>AG-C</u>	AG-B, AG-FB, AG-FC

(N)

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

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December 9, 2019
March 1, 2020



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 4

1. APPLICABILITY: (Cont'd.) The transition of customers no longer eligible for AG-5 to Schedule AG with revised TOU periods will occur on the start of the customer's March billing cycle. Customers will have at least 45-days' notice prior to their scheduled transition date, during which they will continue to take service on this rate schedule. Customers may elect any applicable rate plan with revised TOU periods, based on their eligibility, up to five (5) days prior to the planned transition date to the new Schedule AG. (N)
- Exemptions to the mandatory transitions beginning in March 2021 include:
- Qualifying customers with solar systems who meet the requirements in Rule 1 Definition of "Behind-the-Meter Solar TOU Period Grandfathering" and the terms of "Behind-the-Meter Solar TOU Period Grandfathering Eligibility Requirements" shall be permitted to maintain their legacy TOU rate periods, until the date ten years after their system received its permission to operate (but in no event beyond December 31, 2027 (for public schools) or July 31, 2027 (for all other qualifying). However, rates for those TOU rate periods will be updated with new rates as authorized in applicable PG&E rate proceedings and advice filings.
- "Highly impacted" customers, defined as those agricultural customers with potential bill increases greater than 7 percent and \$100 annually due to the transition, may remain on their legacy rate schedule for an additional year but must transition to the new rates with revised TOU periods in March 2022. Decision 19-05-010 delays the mandatory transition to rates with revised TOU periods for these "highly impacted" customers and clarifies that net energy metering (NEM) customers, direct access customers, and community choice aggregation customers and accounts beginning service on or after August 9, 2018 are not eligible for "highly impacted" subgroup exemptions from the mandatory TOU transition in March 2021.
- Customers that do not have a meter that is capable of billing on the new Schedule AG on or after March 2021, may continue service on this schedule until they receive an interval meter and have at least twelve (12) months of hourly usage data available.
- The mandatory transition process will occur each March to transition all applicable remaining AG-5 customers to the rates with revised TOU periods as described above.
- All AG-5A and AG-5D customers will convert from connected load demand to metered demand in March 2022 for customers with meters having that capability. (N)
- The meters required for this schedule may become obsolete as a result of electric industry restructuring or other action by the California Public Utilities Commission. Therefore, any and all risks of paying the required charges and not receiving commensurate benefit are entirely that of the customer. (L)
- Ongoing daily Time-of-Use (TOU) meter charges applicable to customers taking voluntary TOU service under this rate schedule will no longer be applied if the customer has a SmartMeter™ installed.
- Transfers Off of Schedule AG-5:** After being placed on this schedule due to the 200 kW or greater provisions of this schedule, customers who fail to exceed 199 kilowatts for 12 consecutive months may elect to stay on this schedule or alternate time-of-use rate schedule. (L)

(Continued)

Advice	5709-E	Issued by	Submitted	December 9, 2019
Decision	D.18-08-013 and	Robert S. Kenney	Effective	March 1, 2020
	D.19-05-010	Vice President, Regulatory Affairs	Resolution	



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 5

1. APPLICABILITY: (Cont'd.)
- Peak Day Pricing Default Rates:** Peak Day Pricing (PDP) rates provide customers the opportunity to manage their electric costs by reducing load during high cost periods or shifting load from high cost periods to lower cost periods. Decision 10-02-032 ordered that beginning February 1, 2011, eligible large Agricultural customers default to PDP rates. A customer is eligible for default when 1) it has at least twelve (12) billing months of hourly usage data available, and 2) it has measured demands equal to or exceeding 200 kW for three (3) consecutive months during the past 12 months. All eligible customers will be placed on PDP rates unless they opt-out.
- Customers that do not meet default eligibility may voluntarily elect to enroll on PDP rates.
- Bundled service customers are eligible for PDP. Direct Access (DA) and Community Choice Aggregation (CCA) service customers are not eligible, including those DA customers on transitional bundled service (TBS). Customers on standby service (Schedule S), or on net-energy metering Schedules NEMFC, NEMBIO, NEMCCSF, or NEMA, are not eligible for PDP.
- Decision 18-08-013 temporarily suspends the default of eligible AG-5 customers to PDP beginning March 1, 2019.
- For additional PDP details and program specifics, see section 17.
2. TERRITORY: Schedule AG-5 applies everywhere PG&E provides electricity service.

(Continued)



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 6

3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing. (L)

TOTAL RATES

Total Customer/Meter Charge Rates	Rate A,D	Rate B,E	Rate C,F
Customer Charge (\$ per meter per day)	\$0.57400	\$1.19446	\$5.30871
TOU Meter Charge (\$ per meter per day) (for rate A, B & C)	\$0.22341	\$0.19713	\$0.19713
TOU Meter Charge (\$ per meter per day) (for rate D, E & F)	\$0.06571	\$0.03943	\$0.03943
Total Demand Rates (\$ per kW)			
Connected Load Summer	\$13.56	—	—
Connected Load Winter	\$2.51	—	—
Maximum Demand Summer	—	\$17.75	\$7.02
Maximum Demand Winter	—	\$6.83	\$4.38
Maximum Peak Demand Summer	—	\$11.44	\$19.60
Maximum Part-Peak Demand Summer	—	—	\$4.06
Maximum Part-Peak Demand Winter	—	—	\$1.04
Primary Voltage Discount Summer (B, E per Maximum Demand; C, F per Maximum Peak Demand)	—	\$2.01	\$2.93
Primary Voltage Discount Winter (B, E, C, F per Maximum Demand)	—	\$0.21	\$0.29
Transmission Voltage Discount			
Maximum Peak Demand Summer	—	—	\$12.15
Maximum Part-Peak Demand Summer	—	—	\$1.78
Maximum Demand Summer	—	\$13.25	\$3.99
Maximum Part-Peak Demand Winter	—	—	\$1.04
Maximum Demand Winter	—	\$5.87	\$2.87

(Continued)



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 7

3. RATES:
(Cont'd.)

(L)

TOTAL RATES (Cont'd.)

Total Energy Rates (\$ per kWh)	Rate A, D	Rate B, E	Rate C, F
Peak Summer	\$0.34188	\$0.23498	\$0.18259
Part-Peak Summer	—	—	\$0.12580
Off-Peak Summer	\$0.17594	\$0.10334	\$0.10466
Part-Peak Winter	\$0.18515	\$0.12578	\$0.11099
Off-Peak Winter	\$0.15703	\$0.09406	\$0.10138
 PDP Rates (Rate C Option Only)			 RATE C
 PDP Charges (\$ per kWh)			
All Usage During PDP Event			\$1.00
 PDP Credits - Demand (\$ per kW)			
Peak Summer			(\$3.35)
Part-Peak Summer			(\$0.63)

(L)

(Continued)



ELECTRIC SCHEDULE AG-5
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Sheet 8

3. **RATES:** Total bundled service charges shown on customers' bills are unbundled according to the (L)
(Cont'd.) component rates shown below. PDP charges and credits are all generation and are not included below.

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer/Meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand Rates by Component (\$ per kW)	Rate A,D	Rate B,E	Rate C,F	
Generation:				
Connected Load Summer	\$4.29	—	—	
Connected Load Winter	\$0.00	—	—	
Maximum Demand Summer	—	\$5.22	\$0.00	
Maximum Demand Winter	—	\$0.00	\$0.00	
Maximum Peak Demand Summer	—	\$6.53	\$12.11	
Maximum Part-Peak Demand Summer	—	—	\$2.28	
Maximum Part-Peak Demand Winter	—	—	\$0.00	
Primary Voltage Discount Summer (B, E per Maximum Demand; C, F per Maximum Peak Demand)	—	\$1.64	\$2.49	
Primary Voltage Discount Winter (B, E, C, F per Maximum Demand)	—	\$0.00	\$0.00	
Transmission Voltage Discount				
Maximum Peak Demand Summer	—	—	\$4.66	
Maximum Part-Peak Demand Summer	—	—	\$0.00	
Maximum Demand Summer	—	\$2.85	\$0.00	
Maximum Part-Peak Demand Winter	—	—	\$0.00	
Maximum Demand Winter	—	\$0.00	\$0.00	(L)

(Continued)

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Sheet 9

3.RATES:
(Cont'd.)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Demand Rates by Component (\$ per kW) (Cont'd)	Rate A,D	Rate B,E	Rate C,F	(L)
Distribution**:				(L)
Connected Load Summer	\$9.27	—	—	(L)
Connected Load Winter	\$2.51	—	—	(L)
Maximum Demand Summer	—	\$12.53	\$7.02	(T)
Maximum Demand Winter	—	\$6.83	\$4.38	(L)
Maximum Peak Demand Summer	—	\$4.91	\$7.49	(L)
Maximum Part-Peak Demand Summer	—	—	\$1.78	(L)
Maximum Part-Peak Demand Winter	—	—	\$1.04	(L)
Primary Voltage Discount Summer (B, E per Maximum Demand; C, F per Maximum Peak Demand)	—	\$0.37	\$0.44	(L)
Primary Voltage Discount Winter (B, E, C, F per Maximum Demand)	—	\$0.21	\$0.29	(L)
Transmission Voltage Discount				(L)
Maximum Peak Demand Summer	—	—	\$7.49	(L)
Maximum Part-Peak Demand Summer	—	—	\$1.78	(L)
Maximum Demand Summer	—	\$10.40	\$3.99	(L)
Maximum Part-Peak Demand Winter	—	—	\$1.04	(L)
Maximum Demand Winter	—	\$5.87	\$2.87	(L)

** Distribution and New System Generation Charges are combined for presentation on customer bills.

(Continued)

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ELECTRIC SCHEDULE AG-5
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Sheet 10

3. RATES:
(Cont'd.):

(L)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Energy Rates by Component (\$ per kWh)	Rate A,D	Rate B,E	Rate C,F
Generation:			
Peak Summer	\$0.16856	\$0.16567	\$0.13788
Part-Peak Summer	—	—	\$0.08109
Off-Peak Summer	\$0.08564	\$0.05801	\$0.05995
Part-Peak Winter	\$0.08947	\$0.08045	\$0.06628
Off-Peak Winter	\$0.07698	\$0.04873	\$0.05667
Distribution**:			
Peak Summer	\$0.12621	\$0.02575	\$0.00115
Part-Peak Summer	—	—	\$0.00115
Off-Peak Summer	\$0.04319	\$0.00177	\$0.00115
Part-Peak Winter	\$0.04857	\$0.00177	\$0.00115
Off-Peak Winter	\$0.03294	\$0.00177	\$0.00115
Transmission* (all usage)	\$0.02202	\$0.02202	\$0.02202
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314	\$0.00314
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)	(\$0.00041)
Public Purpose Programs (all usage)	\$0.01397	\$0.01042	\$0.01042
Nuclear Decommissioning (all usage)	\$0.00088	\$0.00088	\$0.00088
Competition Transition Charges (all usage)	\$0.00096	\$0.00096	\$0.00096
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)	(\$0.00057)
DWR Bond (all usage)	\$0.00580	\$0.00580	\$0.00580
New System Generation Charge (all usage)**	\$0.00132	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000	\$0.00000

(L)

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)



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Cal. P.U.C. Sheet No. 31007-E

Sheet 11

- | | | |
|----------------------------------|---|------------|
| <p>4. METERING REQUIREMENTS:</p> | <p>PG&E will install a time-of-use meter that is appropriate for this schedule that measures and registers the amount of electricity a customer uses.</p> | <p>(L)</p> |
| | <p>Customers with a maximum billing demand of 200 kW or greater for three consecutive months must have an interval data meter that can be read remotely by PG&E except customers that are identified as load research sites. A Meter Data Management Agent (MDMA) may also read the customer's meter on behalf of the customer's Energy Service Provider (ESP) if a customer is receiving Direct Access Service.</p> | |
| | <p>For bundled service customers with a maximum demand of 200 kW or greater for three consecutive months, PG&E will provide and install the interval data meter at no additional cost to the customer. After the meter is installed, the customer must take service on a time-of-use rate schedule. The installation of an interval data meter for customers taking service under the provisions of Direct Access is the responsibility of the customer's Energy Service Provider, or their Agent, and must be installed in accordance with Electric Rule 22.</p> | |
| | <p>If the customer does not currently qualify for an interval data meter, the customer must pay PG&E for the cost of purchasing and installing an interval meter, together with applicable Income Tax Component of Contribution (ITCC) charges and the cost to operate and maintain the interval meter, and must sign an Interval Meter Installation Service Agreement (Form 79-984).</p> | |
| | <p>Customers who also request any meter data management services must also sign an Interval Meter Data Management Service Agreement (Form 79-985) and must have an appropriate interval data meter.</p> | <p>(L)</p> |

(Continued)

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<i>Resolution</i>	



ELECTRIC SCHEDULE AG-5
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Sheet 12

5. TIME PERIODS: Seasons of the year and times of the day are defined as follows: (L)
- SUMMER: Service from May 1 through October 31.
- For Rates A, B, D, and E
- | | | |
|-----------|----------------------------|---|
| Peak: | 12:00 noon to 6:00 p.m. | Monday through Friday* |
| Off-Peak: | All other hours
All day | Monday through Friday
Saturday, Sunday, Holidays |
- For Rates C and F
- | | | |
|---------------|---|---|
| Peak: | 12:00 noon to 6:00 p.m. | Monday through Friday* |
| Partial-Peak: | 8:30 a.m. to 12:00 p.m.
6:00 p.m. to 9:30 p.m. | Monday through Friday*
Monday through Friday* |
| Off-Peak: | 9:30 p.m. to 8:30 a.m.
All day | Monday through Friday
Saturday, Sunday, Holidays |
- WINTER: Service from November 1 through April 30.
- For Rates A, B, C, D, E, and F
- | | | |
|---------------|----------------------------|---|
| Partial-Peak: | 8:30 a.m. to 9:30 p.m. | Monday through Friday* |
| Off-Peak: | All other hours
All day | Monday through Friday
Saturday, Sunday, Holidays |
- "Holidays" for the purpose of this rate schedule are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, and Christmas Day. The dates will be those on which the holidays are legally observed.
- * Except holidays.
- DAYLIGHT SAVING TIME ADJUSTMENT: The time periods shown above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April, and for the period between the last Sunday in October and the first Sunday in November.
6. ENERGY CHARGE CALCULATION: When summer and winter proration is required, charges will be based on the average daily use for the full billing periods times the number of days in each period. (L)

(Continued)



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 13

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|---|--|-----|
| 7. CONTRACTS: | Service under Schedule AG-5 is provided for a minimum of 12 months beginning with the date the customer's service commences. The customer may be required to sign a service contract with a minimum term of one year. After the customer's initial one-year term has expired, the customer's contract will continue in effect until it is cancelled by the customer or PG&E. | (L) |
| | Where a line extension is required it will be installed under the provisions of Rules 15 and 16. | |
| 8. CONNECTED
LOAD
(Rates A and
D only): | Connected load is defined as the sum of the rated capacities (as determined in accordance with Rule 2) of all equipment that is served through one metering point and that may be operated at the same time. When charges are based on connected load, in no case will charges be based on less than two horsepower/kilowatts for single-phase service, nor less than three horsepower/kilowatts for three-phase service. | |
| | The customer's account will be adjusted for permanent connected-load changes that take place during the contract year. It is the customer's responsibility to notify PG&E of such changes. No adjustment will be made for a temporary reduction in connected Load. If the Load is reconnected within 12 months of being disconnected, the charges will be recalculated and applied retroactively, as though no reduction in Load had taken place. | |
| 9. MAXIMUM
DEMAND
(Rates B, C, E,
and F Only): | The maximum demand will be the number of kW the customer is using recorded over 15-minute intervals; the highest 15-minute average in any month for Rates B, C, E and F customers will be the maximum demand for that month. Where the customer's use of electricity is intermittent or subject to abnormal fluctuation, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The welder load calculation will apply only in the season in which the customer usually uses energy, which will be assumed to be the summer season unless otherwise designated. | (L) |

(Continued)

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Sheet 14

- | | | |
|---|--|-----|
| 9. MAXIMUM DEMAND
(Cont'd.): | <p>In billing periods with use in both the summer season and winter season (April/May, October/November), your <u>total demand charge</u> shall be calculated on a pro rata basis depending upon the demand charge and the number of days in each season. The maximum demand used in determining your demand charge for each season of the billing period will be: (1) the maximum demand created in each season's portion of the billing month as measured by a meter with such capability; or (2) the maximum demand for the billing month where the installed meter is incapable of measuring time-varying demands.</p> <p>For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.</p> <p>If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).</p> <p>To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).</p> | (L) |
| 10. MAXIMUM-PEAK-PERIOD DEMAND
(Rates B, C, E, and F Only): | The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. | |
| 11. MAXIMUM-PART-PEAK-PERIOD DEMAND
(Rates B, C, E, and F Only): | The customer's maximum-part-peak-period demand will be the highest of all the 15-minute averages for the part-peak period during the billing month. | |
| | | (L) |

(Continued)

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Sheet 15

12. **DEFINITION OF SERVICE VOLTAGE:** The following defines the three voltage classes of Schedule AG-5 rates. Standard Service Voltages are listed in Rule 2, Section B.1. (L)
- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
 - b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
 - c. Transmission: This is the voltage class if the customer is served without transformation from PG&E's serving transmission system at one of the standard transmission voltages specified in PG&E's Rule 2, Section B.1.
- PG&E retains the right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option of taking service at the new voltage (and making whatever changes in their systems are necessary) or taking service without a voltage discount through transformers supplied by PG&E.
13. **BILLING:** A customer's bill is calculated based on the option applicable to the customer. (L)
- Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.
- Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.
- Direct Access (DA) and Community Choice Aggregation (CCA) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.
- | | <u>DA /CCA CRS</u> |
|--|--------------------|
| Energy Cost Recovery Amount Charge (per kWh) | (\$0.00057) |
| DWR Bond Charge (per kWh) | \$0.00580 |
| CTC Charge (per kWh) | \$0.00096 |
| Power Charge Indifference Adjustment (per kWh) | |
| 2009 Vintage | \$0.01886 |
| 2010 Vintage | \$0.02186 |
| 2011 Vintage | \$0.02275 |
| 2012 Vintage | \$0.02378 |
| 2013 Vintage | \$0.02396 |
| 2014 Vintage | \$0.02398 |
| 2015 Vintage | \$0.02404 |
| 2016 Vintage | \$0.02394 |
| 2017 Vintage | \$0.02399 |
| 2018 Vintage | \$0.02406 |
| 2019 Vintage | \$0.02605 |

(Continued)



ELECTRIC SCHEDULE AG-5
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Sheet 16

14. STANDBY APPLICABILITY: SOLAR GENERATION FACILITIES EXEMPTION: Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (L)
- DISTRIBUTED ENERGY RESOURCES EXEMPTION: Any customer under a time-of-use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable standby reservation charges. Customers qualifying for this exemption shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take time-of-use service to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (TOU) and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - *Competition Transition Charge Responsibility for All Customers and CTC Procurement*, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.
15. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.
16. OPTIMAL BILLING PERIOD SERVICE: The Optimal Billing Period (OBP) service is a voluntary program available to bundled, direct access and community choice aggregation customers taking service on Schedule AG-5 (C) and (F) rates, Schedule E-19 or Schedule E-20. To qualify, a meter must have registered a demand of 500 kW or greater at least once during the most recent 12 months. The OBP service is limited to 50 service accounts with interval billed meters.
- Customers electing this service must complete the "Optimal Billing Period Service Election Form" (Form 79-1111).
- Decision 18-08-013 expanded the eligibility of OBP to Schedule E-19 (above 500 kW as defined above), Schedule E-20, and to direct access and community choice aggregation customers taking service on eligible schedules. Decision 18-08-013 retained the participation cap of 50 positions, and reserved 36 positions for agricultural accounts, and 14 positions for commercial and industrial accounts. Before declining participation of any otherwise eligible account based on these participation limits, PG&E will verify that all other enrolled accounts are still eligible for the program.
- Customers on net energy metering Schedules VNEM, NEMBIO, NEMFC, NEMCCSF, NEMA or RES-BCT are not eligible for OBP service. (L)

(Continued)

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ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 17

16. OPTIMAL
BILLING
PERIOD
SERVICE:
(Cont'd)

The OBP service allows a billing cycle(s) to coincide with the customer's high seasonal production cycle. The customer designates the OBP by selecting one or both of the following:

- a) a specific month and day for the start of the OBP; and/or
- b) a specific month and day for the end of the OBP.

PG&E will use the customer's usage from the preceding twelve (12) billing months to determine eligibility for the OBP service. To qualify, the average of the previous high season monthly maximum demand must be at least double the average of the low season monthly maximum demand. The customer must also specify which six consecutive months will be their high season optimal billing period.

The start and end dates must fall within the customer's high seasonal production cycle. In no event shall any revised billing period exceed forty-five (45) days or be less than fifteen (15) days. To qualify for this option, the customer must designate an OBP of not more than six (6) months in duration.

To designate the specific date for the start or end of the OBP, a participating customer must email PG&E at least seventy-two (72) hours in advance and such email shall state in its subject line "OBP Notification." The designation may not be implemented if it is not received or if it does not contain the specified information.

Prior to receiving OBP service, the customer must pay an annual OBP fee of \$160.00 per meter. In order to retain the OBP service option in each subsequent year, the annual participation fee must be received by PG&E by the anniversary date of the contract. PG&E will bill the annual OBP fee upon the anniversary date of the contract unless the customer terminates the contract. For billing purposes, the annual participation fee shall be assigned to Distribution.

A. No Retroactive Application

No customer shall be entitled to a refund associated with the OBP service for costs that might have been avoided had the service been available at an earlier point in time.

B. Customer Notification to PG&E

A customer must have at least 12 months of usage on a specific meter before the OBP service can be received on that particular meter. Also, a customer must provide notice to PG&E of their intention to obtain OBP service at least ninety (90) days before the start of the program.

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ELECTRIC SCHEDULE AG-5
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Sheet 18

17. PEAK DAY
PRICING
DETAILS:

- a. Default Provision: Decision 18-08-013 adopted new TOU periods for all non-residential customer classes. The Decision also suspends the default of eligible AG-5 customers to PDP beginning March 1, 2019 until rates with new TOU periods, as adopted in the same Decision, become mandatory. The rates with new TOU periods are expected to become mandatory for agricultural customers in March 2021, concurrent with the resumption of the default of eligible customers to PDP.

The default of eligible customers to PDP will occur once per year with the start of their billing cycle on or after March 1. Eligible customers will have at least 45-days notice prior to their planned default date when they may opt-out of PDP rates to take service on TOU rates. During the 45-day period, customers will continue to take service on their non-PDP rate. Customers may elect any applicable PDP rate. However, if customers taking service on this schedule have not made that choice or elected to opt-out to a TOU rate at least five (5) days before their proposed default date, their service will be defaulted to the PDP version of this rate schedule. Existing customers on a PDP rate eligible demand response program will have the option to enroll.

Bundled service Net Energy Metering (NEM) customers taking service on Schedule NEM, NEMV, NEMVMASH, NEM2, NEM2V, or NEM2VMSH are eligible for default and opt-in PDP. NEM customers on NEMBIO, NEMFC, NEMCCSF, and NEMA are not eligible for PDP. The NEM Annual True-Up billing date, and the first year PDP Bill Stabilization date in 17.c, may be independent 12 month periods. After the first year on PDP, NEM credits can offset PDP charges. All PDP billing for NEM customers will be based on net usage during each 15-minute interval. Net positive usage above the CRL, as well as net exports in excess of the CRL, in each 15-minute interval will be subject to PDP credits and charges as applicable.

- b. Capacity Reservation Level: Customers may elect a capacity reservation level (CRL) and pay for a fixed level of capacity, specified in kW. While the CRL is applicable year round, customers electing a CRL will be billed on a take-or-pay basis up to the specified CRL under the non-PDP rate of this schedule during the summer period (May 1 through October 31). This means that customers will be billed for summer peak generation demand charges up to the level of their CRL, even in summer months when the actual demand might be less than their CRL. Customers will receive PDP credits on summer usage above the CRL on all summer period days. All usage during a PDP event protected under the CRL will be billed at the non-PDP rate. All usage above the CRL (as measured in 15-minute intervals), and not protected during a PDP event, will be billed at the PDP rate.

If a customer fails to elect an initial CRL, the customer's initial CRL will be set at 50% of its most recent six (6) summer months' average peak-period maximum demand and may go back to the previous year to make a full summer season (if available). If the customer has not established any historic summer billing demand, the CRL will be set at zero (0). The CRL for all customers, including NEM customers, must be greater than or equal to zero (0).

A customer may only elect to change their CRL once every 12 months.

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San Francisco, California

Cal. P.U.C. Sheet No. 45833-E
Cal. P.U.C. Sheet No. 31016-E

Sheet 19

- | | | | |
|-----|---|--|-----|
| 17. | PEAK DAY
PRICING
DETAILS
(CONT'D): | <p>c. Bill Stabilization: PDP customers will be offered bill stabilization for the initial twelve (12) months unless they opt-out during their initial 45-day period. Bill stabilization ensures that during the initial 12 months under PDP, the customer will not pay more than it would have had it opted-out to the applicable TOU rate.</p> <p>If a customer terminates its participation on the PDP rate prior to the initial 12 month period expiring, the customer will receive bill stabilization up to the date when the customer terminates its participation. Bill stabilization benefits will be computed on a cumulative basis, based on the earlier of 1) when a customer terminates its participation on the PDP rate or 2) at the end of the initial 12-month period. Any applicable credits will be applied to the customer's account on a subsequent regular bill. Bill stabilization is only available one time per customer. If a customer unenrolls or terminates its participation on a PDP rate, bill stabilization will not be offered again.</p> <p>d. Notification Equipment: Customers, at their expense, must have access to the Internet and an e-mail address or a phone number to receive notification of a PDP event. In addition, all customers can have, at their expense, an alphanumeric pager or cellular telephone that is capable of receiving a text message sent via the Internet, and/or a facsimile machine to receive notification messages.</p> <p>If a PDP event occurs, customers will be notified using one or more of the above-mentioned systems. Receipt of such notice is the responsibility of the participating customer. PG&E will make reasonable efforts to notify customers, however it is the customer's responsibility to maintain accurate notification contact information, receive such notice and to check the PG&E website to see if an event is activated. PG&E does not guarantee the reliability of the phone, text messaging, e-mail system or Internet site by which the customer receives notification.</p> <p>PG&E may conduct notification test events once a month to ensure a customer's contact information is up-to-date. These are not actual PDP events and no load reduction is required.</p> | (L) |
|-----|---|--|-----|

(Continued)

<i>Submitted</i>	<u>December 9, 2019</u>
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<i>Resolution</i>	



ELECTRIC SCHEDULE AG-5
LARGE TIME-OF-USE AGRICULTURAL POWER

Sheet 20

17. PEAK DAY
PRICING
DETAILS
(CONT'D):

- e. Demand Response Operations Website: Customers can use PG&E's demand response operations website located at <https://inter-act.pge.com> for load curtailment event notifications and communications.

The customer's actual energy usage is available at PG&E's demand response operations website or on "My Account". This data may not match billing quality data, and the customer understands and agrees that the data posted to PG&E's demand response operations website or "My Account" may be different from the actual bill.
- f. Program Operations: A maximum of fifteen (15) PDP events and a minimum of nine (9) PDP events may be called in any calendar year. PG&E will notify customers by 2:00 p.m. on a day-ahead basis when a PDP event will occur the next day. The PDP program will operate year-round and PDP events may be called for any day of the week. PDP events will be called from 2:00 p.m. to 6:00 p.m.
- g. Event Cancellation: PG&E may initiate the cancellation of a PDP event before 4:00 p.m. the day-ahead of a noticed PDP event. If PG&E cancels an event, it will count the cancelled event toward the PDP limits.
- h. Event Trigger: PG&E will trigger a PDP event when the day-ahead temperature forecast trigger is reached. The trigger will be the average of the day-ahead maximum temperature forecasts for San Jose, Concord, Red Bluff, Sacramento and Fresno.

Beginning May 1 of each summer season, the PDP events on non-holiday weekdays will be triggered at 98 degrees Fahrenheit (°F), and will be triggered at 105°F on holidays and weekends. If needed, PG&E will adjust the non-holiday weekday trigger up or down over the course of the summer to achieve the range of 9 to 15 PDP events in any calendar year. Such adjustments would be made no more than twice per month and would be posted to the demand response operations website or on PG&E's PDP website.

PDP events may also be initiated as warranted on a day-ahead basis by 1) extreme system conditions such as special alerts issued by the California Independent System Operator, 2) under conditions of high forecasted California spot market power prices, 3) to meet annual PDP event limits for a calendar year, or 4) for testing/evaluation purposes.

(L)

(L)

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

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December 9, 2019
March 1, 2020



San Francisco, California

Cal. P.U.C. Sheet No. 45835-E
Cal. P.U.C. Sheet No. 44490-E

Sheet 21

- | | | | | |
|-----|---|----|---|-----|
| 17. | PEAK DAY
PRICING
DETAILS
(CONT'D): | i. | <p>Program Terms: A customer may opt-out anytime during their initial 12 months on a PDP rate. After the initial 12 months, customer's participation will be in accordance with Electric Rule 12.</p> <p>Customers may opt-out of a PDP rate at anytime to enroll in another demand response program beginning May 1, 2011.</p> | (L) |
| | | j. | <p>Interaction with Other PG&E Demand Response Programs: Pursuant to D.18-11-029, customers on a PDP rate may no longer participate in another demand response program offered by PG&E or a third-party demand response provider as of October 26, 2018. If dual enrolled in BIP and PDP prior to October 26, 2018 then participation will be capped at the customer's subscribed megawatt level as of December 10, 2018. New dual enrollment in BIP and PDP as of October 26, 2018 is no longer available. If a NEM customer is on PDP, the customer cannot participate in a third party Demand Response program unless it ceases to be a PDP customer. If a third party signs a NEM customer up under Rule 24 at the CAISO, the customer is automatically removed from PDP.</p> | (L) |



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 1

1. **APPLICABILITY:** This schedule is closed to new customers. Customers taking service on this schedule as of May 1, 2012 must maintain continuous service on this schedule to remain eligible for service on this schedule. An exception to this rule will apply only to customers electing to migrate to Peak Day Pricing who subsequently elect to return to this schedule (see Peak Day Pricing Default Rates section).

(D)
|
|
|
|
(D)

A customer will be served under this schedule if 70% or more of the annual energy use on the meter is for agricultural end-uses. Agricultural end-uses consist of:

- (a) growing crops;
- (b) raising livestock;
- (c) pumping water for irrigation of crops; or
- (d) other uses which involve production for sale.

Only agricultural end-uses performed prior to the First Sale of the agricultural product are agricultural end-uses under this criteria, except for the following activities, which are also agricultural end-uses under this criteria: (a) packing and packaging of the agricultural products following the First Sale and before any subsequent sale, and (b) agricultural end-uses by nonprofit cooperatives. Guidelines for interpreting this applicability statement are set forthwith in Section D of the Rule 1 Definition 'Qualification for Agricultural Rates'.

None of the above activities may process the agricultural product. Residential dwelling, office, and retail usage are not agricultural end-uses.

The Rule 1 definition 'Qualification for Agricultural Rates' specifies additional activities and meters that will also be served on agricultural rates, and guidelines through the following sections: (B) Other Activities and Meters Also Served on Agricultural Rates, (C) Specific Applications of the March 2, 2006 Applicability Criteria, and (D) Guidelines for Applying the Applicability Criteria.

The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule AG-R charges. Exemptions to standby charges are outlined in the Standby Applicability Section of this rate schedule.

(Continued)

Advice 4740-E
Decision 15-08-005

Issued by
Steven Malnight
Senior Vice President
Regulatory Affairs

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ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 2

1. **APPLICABILITY:** Depending upon the end-use of electricity and whether or not a Time-Of-Use Installation or Time-Of-Use Processing charge applied prior to May 1, 2006, the customer will be served under one of the rates under Schedule AG-R: Rate A, B, D or E.
(Cont'd.)

Rates A and D: Applies to single-motor installations with a connected load rated less than 35 horsepower and to all multi-load installations aggregating less than 15 horsepower or kilowatts. Rate D applies to customers who were on Rate D as of May 1, 2006 and are not billed via SmartMeter™. Rate A applies to all other customers.

Rates B and E: Applies to single-motor installations rated 35 horsepower or more, to multi-load installations aggregating 15 horsepower or kilowatts or more, and to "overloaded" motors. The customer's end-use is determined to be overloaded when the measured input to any motor rated 15 horsepower or more is determined by PG&E to exceed one kilowatt per horsepower of nameplate rated output. Rate E applies to customers who were on Rate E as of May 1, 2006 and are not billed via SmartMeter™. Rate B applies to all other customers.

Rate B will apply to those customers whose maximum demand is 200 kW or greater for three consecutive months and select this schedule upon the initial installation of the interval data meter, unless the customer was on Rate E as of May 1, 2006 and is not billed via SmartMeter™.

(L)

(L)

Decision 18-08-013 adopted new TOU periods and new seasonal definitions for all non-residential customer classes, as well as new rates for the Agricultural customer class. Schedules AG-1, AG-4, AG-5, AG-R and AG-V will be retained as legacy rate schedules with their current TOU periods until the rates with revised TOU periods (Schedules AG and AG-F) established in the same proceeding, become mandatory in March 2021.

(N)

Decision 19-05-010 adopted additional modifications to the agricultural rates adopted in Decision 18-08-013 and delays the mandatory transition until March 2022 for highly impacted agricultural customers, defined as those customers with potential bill increases greater than 7 percent and \$100 annually due to the transition to the rates with revised TOU periods. In addition, certain qualifying customers with solar systems will be permitted to maintain their current TOU periods for a certain period of time, per Decision 17-01-006, as described in Electric Rule 1, Definitions: Behind the Meter Solar TOU Grandfathering and Eligibility Requirements.

The new rates with revised TOU periods adopted in D.18-08-013 and modified in D.19-05-010 will be available on a voluntary basis for qualifying customers beginning March 1, 2020. During this voluntary period from March 1, 2020 through February 28, 2021:

(N)

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 3

1. APPLICABILITY:
(Cont'd.)

Schedule AG, with revised TOU periods, will be available for voluntary enrollment for customers with interval meters that can be remotely read by PG&E.

Customers taking service under Schedule AG-R at the time rates with new TOU periods become available, may transfer to new Schedule AG or Schedule AG-F, with revised TOU periods, may remain on this rate until rates with revised TOU periods become mandatory, in March 2021, or, on an exceptions basis, may request to transfer to another legacy rate pursuant to Electric Rule 12, Section C, or in accordance with Electric Rule 1 as referenced above, for solar grandfathered customers.

Beginning March 2021, customers served under Schedule AG-R will transition to the rate plans under Schedule AG with revised TOU periods on a mandatory basis or may elect service under optional Schedule AG-F or any other rate plan for which they are eligible.

Customers on AG-RA or AG-RD, with an interval meter that have at least twelve (12) billing months hourly usage data available, and a maximum demand less than 35 kW, will transition to rate AG-A1 under Schedule AG, or may elect to enroll in AG-A2 or AG-FA under Schedule AG-F.

Customers on AG-RA or AG-RD, with a maximum demand of 35 kW or greater, for three consecutive months in the most recent twelve months, or on AG-RB or AG-RE will transition to AG-B under Schedule AG, or may elect to enroll in AG-C, or AG-FB or AG-FC under Schedule AG-F.

Summarized below:

Legacy Rate	Defaults to service under Schedule AG:	Or May Opt-In to
AG-RA/D < 35 kW	<u>AG-A1</u>	AG-A2, AG-FA
AG-RA/D >= 35 kW	<u>AG-B</u>	AG-C, AG-FB, AG-FC
AG-RB/E	<u>AG-B</u>	AG-C, AG-FB, AG-FC

The transition of customers no longer eligible for AG-R to Schedule AG with revised TOU periods will occur on the start of the customer's March billing cycle. Customers will have at least 45-days' notice prior to their scheduled transition date, during which they will continue to take service on this rate schedule. Customers may elect any applicable rate plan with revised TOU periods, based on their eligibility, up to five (5) days prior to the planned transition date to the new Schedule AG.

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

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Vice President, Regulatory Affairs

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March 1, 2020



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 4

1. APPLICABILITY: Exemptions to the mandatory transitions beginning in March 2021 include:
(Cont'd.)

Qualifying customers with solar systems who meet the requirements in Rule 1 Definition of "Behind-the-Meter Solar TOU Period Grandfathering" and the terms of "Behind-the-Meter Solar TOU Period Grandfathering Eligibility Requirements" shall be permitted to maintain their legacy TOU rate periods, until the date ten years after their system received its permission to operate (but in no event beyond December 31, 2027 (for public schools) or July 31, 2027 (for all other qualifying). However, rates for those TOU rate periods will be updated with new rates as authorized in applicable PG&E rate proceedings and advice filings.

"Highly impacted" customers, defined as those agricultural customers with potential bill increases greater than 7 percent and \$100 annually due to the transition, may remain on their legacy rate schedule for an additional year but must transition to the new rates with revised TOU periods in March 2022. Decision 19-05-010 delays the mandatory transition to rates with revised TOU periods for these "highly impacted" customers and clarifies that net energy metering (NEM) customers, direct access customers, and community choice aggregation customers and accounts beginning service on or after August 9, 2018 are not eligible for "highly impacted" subgroup exemptions from the mandatory TOU transition in March 2021.

Customers that do not have a meter that is capable of billing on the new Schedule AG on or after March 2021, may continue service on this schedule until they receive an interval meter and have at least twelve (12) months of hourly usage data available.

The mandatory transition process will occur each March to transition all applicable remaining AG-R customers to the rates with revised TOU periods as described above.

All AG-RA and AG-RD customers will convert from connected load demand to metered demand in March 2022 for customers with meters having that capability.

The meters required for this schedule may become obsolete as a result of electric industry restructuring or other action by the California Public Utilities Commission. Therefore, any and all risks of paying the required charges and not receiving commensurate benefit are entirely that of the customer.

Ongoing daily Time-of-Use (TOU) meter charges applicable to customers taking voluntary TOU service under this rate schedule will no longer be applied if the customer has a SmartMeter™ installed.

Transfers Off of Schedule AG-R: After being placed on this schedule due to the 200 kW or greater provisions of this schedule, customers who fail to exceed 199 kilowatts for 12 consecutive months may elect to stay on this schedule or alternate time-of-use rate schedule.

(Continued)

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D.19-05-010

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March 1, 2020



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 5

- | | | |
|-------------------------------|---|--|
| 1. APPLICABILITY:
(cont'd) | <p>Peak Day Pricing Default Rates: Peak Day Pricing (PDP) rates provide customers the opportunity to manage their electric costs by reducing load during high cost periods or shifting load from high cost periods to lower cost periods. Decision 10-02-032 ordered that beginning February 1, 2011, eligible large Agricultural customers default to PDP rates. A customer is eligible for default when 1) it has at least twelve (12) billing months of hourly usage data available, and 2) it has measured demands equal to or exceeding 200 kW for three (3) consecutive months during the past 12 months. All eligible customers served on this schedule will be placed on AG-4C PDP rates unless they opt-out.</p> <p>Decision 18-08-013 temporarily suspends the default of eligible AG-R customers to PDP beginning March 1, 2019.</p> <p>Customers that do not meet default eligibility may voluntarily elect to enroll on PDP rates. An AG-R customer that defaulted or voluntarily elected to enroll in a PDP rate may return back to rate schedule AG-R as long as the rate is in effect. For additional PDP details and program specifics, see rate schedule AG-4.</p> <p>Bundled service customers are eligible for PDP. Direct Access (DA) and Community Choice Aggregation (CCA) service customers are not eligible, including those DA customers on transitional bundled service (TBS). Customers on standby service (Schedule S) and net-energy metering (NEM, NEMFC, NEMBIO, etc.) are not eligible for PDP.</p> | <p>(L)</p> <p>-----</p> <p>(L)</p> <p>-----</p> <p>(L)(D)</p> <p>-----</p> <p>(L)(D)</p> <p>-----</p> <p>(L)</p> |
| 2. TERRITORY: | Schedule AG-R applies everywhere PG&E provides electricity service. | <p>(L)</p> |

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 6

3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

(L)

TOTAL RATES

Total Customer/Meter Charge Rates	Rate A,D	Rate B,E
Customer Charge (\$ per meter per day)	\$0.57400	\$0.76313
TOU Meter Charge (\$ per meter per day) (for rate A & B)	\$0.22341	\$0.19713
TOU Meter Charge (\$ per meter per day) (for rate D & E)	\$0.06571	\$0.03943
Total Demand Rates (\$ per kW)		
Connected Load Summer	\$8.09	—
Connected Load Winter	\$1.31	—
Maximum Peak Demand Summer	—	\$4.29
Maximum Demand Summer	—	\$11.03
Maximum Demand Winter	—	\$2.21
Primary Voltage Discount Summer	—	\$0.96
Primary Voltage Discount Winter	—	\$0.36
Total Energy Rates (\$ per kWh)		
Peak Summer	\$0.58658	\$0.53118
Off-Peak Summer	\$0.20739	\$0.19669
Part-Peak Winter	\$0.21147	\$0.18478
Off-Peak Winter	\$0.17441	\$0.15330

(L)

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 7

3. **RATES:** Total bundled service charges shown on customers' bills are unbundled (L)
(Cont'd.) according to the component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer/Meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand by Components (\$ per kW)	Rate A,D	Rate B,E
Generation:		
Connected Load Summer	\$1.54	—
Connected Load Winter	\$0.00	—
Maximum Peak Demand Summer	—	\$2.57
Maximum Demand Summer	—	\$2.28
Maximum Demand Winter	—	\$0.00
Primary Voltage Discount Summer	—	\$0.58
Primary Voltage Discount Winter	—	\$0.00
Distribution**:		
Connected Load Summer	\$6.55	—
Connected Load Winter	\$1.31	—
Maximum Peak Demand Summer	—	\$1.72
Maximum Demand Summer	—	\$8.75
Maximum Demand Winter	—	\$2.21
Primary Voltage Discount Summer	—	\$0.38
Primary Voltage Discount Winter	—	\$0.36
Energy Rate by Components (\$ per kWh)		
Generation:		
Peak Summer	\$0.30285	\$0.27442
Off-Peak Summer	\$0.07950	\$0.07880
Part-Peak Winter	\$0.08745	\$0.07261
Off-Peak Winter	\$0.07508	\$0.06242
Distribution**:		
Peak Summer	\$0.23662	\$0.21057
Off-Peak Summer	\$0.08078	\$0.07170
Part-Peak Winter	\$0.07691	\$0.06598
Off-Peak Winter	\$0.05222	\$0.04469
Transmission* (all usage)	\$0.02202	\$0.02202
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314
Public Purpose Programs (all usage)	\$0.01397	\$0.01305
Nuclear(l)Decommissioning (all usage)	\$0.00088	\$0.00088
Competition Transition Charges (all usage)	\$0.00096	\$0.00096
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)
DWR Bond (all usage)	\$0.00580	\$0.00580
New System Generation Charge (all usage)**	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(L)

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 8

- .4. METERING REQUIREMENTS: PG&E will install a time-of-use meter that is appropriate for this schedule that measures and registers the amount of electricity a customer uses. (L)
- Customers with a maximum demand of 200 kW or greater for three consecutive months must have an interval data meter that can be read remotely by PG&E, except customers that are identified as load research sites. A Meter Data Management Agent (MDMA) may also read the customer's meter on behalf of the customer's Energy Service Provider (ESP) if a customer is receiving Direct Access Service.
- For bundled service customers with a maximum demand of 200 kW or greater for three consecutive months, PG&E will provide and install the interval data meter at no additional cost to the customer. After the meter is installed, the customer must take service on a time-of-use rate schedule. The installation of an interval data meter for customers taking service under the provisions of Direct Access is the responsibility of the customer's Energy Service Provider, or their Agent, and must be installed in accordance with Electric Rule 22.
- If the customer does not currently qualify for an interval data meter, the customer must pay PG&E for the cost of purchasing and installing an interval meter, together with applicable Income Tax Component of Contribution (ITCC) charges and the cost to operate and maintain the interval meter, and must sign an Interval Meter Installation Service Agreement (Form 79-984).
- Customers who also request any meter data management services must also sign an Interval Meter Data Management Service Agreement (Form 79-985) and must have an appropriate interval data meter. (L)

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 9

5. TIME
PERIODS:

Seasons of the year and times of the day are defined as follows:

(L)

SUMMER: Service from May 1 through October 31.

Peak:*

Group I	12:00 noon to 6:00 p.m.	Monday, Tuesday, Wednesday**
Group II	12:00 noon to 6:00 p.m.	Wednesday, Thursday, Friday**

Off-Peak	All other hours	Monday through Friday
	All day	Saturday, Sunday, holidays

WINTER: Service from November 1 through April 30.

Partial-Peak: 8:30 a.m. to 9:30 p.m. Monday through Friday**

Off-Peak	All other hours	Monday through Friday
	All day	Saturday, Sunday, holidays

"Holidays" for the purpose of this rate schedule are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, and Christmas Day. The dates will be those on which the holidays are legally observed.

* Providing space is available, you may have the option of choosing the applicable days for peak-period hours.

** Except holidays.

DAYLIGHT SAVING TIME ADJUSTMENT: The time periods shown above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April, and for the period between the last Sunday in October and the first Sunday in November.

6. ENERGY
CHARGE
CALCULATION:

When summer and winter proration is required, charges will be based on the average daily use for the full billing periods times the number of days in each period.

7. CONTRACTS:

Service under Schedule AG-R is provided for a minimum of 12 months beginning with the date your service commences. You may be required to sign a service contract with a minimum term of one year. After your initial one-year term has expired, your contract will continue in effect until it is cancelled by you or PG&E.

Where a line extension is required it will be installed under the provisions of Rules 15 and 16.

(L)

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 10

8. **CONNECTED LOAD** (Rates A and D): Connected load is defined as the sum of the rated capacities (as determined in accordance with Rule 2) of all equipment that is served through one metering point and that may be operated at the same time. When charges are based on connected load, in no case will charges be based on less than two horsepower/kilowatts for single-phase service, nor less than three horsepower/kilowatts for three-phase service.
- The customer's account will be adjusted for permanent connected-load changes that take place during the contract year. It is the customer's responsibility to notify PG&E of such changes. No adjustment will be made for temporary reduction in connected load. If the load is reconnected within 12 months of being disconnected, charges will be recalculated and applied retroactively as though no reduction in load had taken place.
- All AG-RA and AG-RD customers will convert from connected load demand to metered demand in March 2022 for customers with meters having that capability.
9. **MAXIMUM DEMAND:** If the customer is a Rate B or E customer, the maximum demand will be the number of kW the customer is using recorded over 15-minute intervals; the highest 15-minute average in any month will be the maximum demand for that month. Where the customer's use of electricity is intermittent or subject to abnormal fluctuation, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The welder load calculation will apply only in the season in which the customer usually uses energy, which will be assumed to be the summer season unless otherwise designated.
- In billing periods with use in both the summer season and winter season (April/May, October/November), the customer's total demand charge shall be calculated on a pro rata basis depending upon the demand charge and the number of days in each season. The maximum demand used in determining the customer's demand charge for each season of the billing period will be: (1) the maximum demand created in each season's portion of the billing month as measured by a meter with such capability; or (2) the maximum demand for the billing month where the installed meter is incapable of measuring time-varying demands.
- For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.
- If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).
- To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 11

10. MAXIMUM-PEAK-PERIOD DEMAND (Rates B and E Only): The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (L)
11. DEFINITION OF SERVICE VOLTAGE: The following defines the three voltage classes of Schedule AG-R rates. Standard Service Voltages are listed in Rule 2, Section B.1.
- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
 - b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- PG&E retains the right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option of taking service at the new voltage (and making whatever changes in their systems are necessary) or taking service without a voltage discount through transformers supplied by PG&E.
12. BILLING: A customer's bill is calculated based on the option applicable to the customer.
- Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.
- Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.
- Direct Access (DA) and Community Choice Aggregation (CCA) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.
- | | <u>DA / CCA CRS</u> |
|--|---------------------|
| Energy Cost Recovery Amount Charge (per kWh) | (\$0.00057) |
| DWR Bond Charge (per kWh) | \$0.00580 |
| CTC Charge (per kWh) | \$0.00096 |
| Power Charge Indifference Adjustment (per kWh) | |
| 2009 Vintage | \$0.01886 |
| 2010 Vintage | \$0.02186 |
| 2011 Vintage | \$0.02275 |
| 2012 Vintage | \$0.02378 |
| 2013 Vintage | \$0.02396 |
| 2014 Vintage | \$0.02398 |
| 2015 Vintage | \$0.02404 |
| 2016 Vintage | \$0.02394 |
| 2017 Vintage | \$0.02399 |
| 2018 Vintage | \$0.02406 |
| 2019 Vintage | \$0.02605 |

(Continued)



ELECTRIC SCHEDULE AG-R
SPLIT-WEEK TIME-OF-USE AGRICULTURAL POWER

Sheet 12

13. STANDBY
APPLICA-
BILITY:

SOLAR GENERATION FACILITIES EXEMPTION: Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.

DISTRIBUTED ENERGY RESOURCES EXEMPTION: Any customer under a time of use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable standby reservation charges. Customers qualifying for this exemption shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take time-of-use service to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (TOU) and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB – Competition Transition Charge Responsibility for All Customers and CTC Procurement, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.

(L)

14. DWR BOND
CHARGE:

The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.

(L)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 1

1. **APPLICABILITY:** This schedule is closed to new customers. Customers taking service on this schedule as of May 1, 2012 must maintain continuous service on this schedule to remain eligible for service on this schedule. An exception to this rule will apply only to customers electing to migrate to Peak Day Pricing who subsequently elect to return to this schedule (see Peak Day Pricing Default Rates section).

(D)
|
|
|
|
(D)

A customer will be served under this schedule if 70% or more of the annual energy use on the meter is for agricultural end-uses. Agricultural end-uses consist of:

- (a) growing crops;
- (b) raising livestock;
- (c) pumping water for irrigation of crops; or
- (d) other uses which involve production for sale.

Only agricultural end-uses performed prior to the First Sale of the agricultural product are agricultural end-uses under this criteria, except for the following activities, which are also agricultural end-uses under this criteria: (a) packing and packaging of the agricultural products following the First Sale and before any subsequent sale, and (b) agricultural end-uses by nonprofit cooperatives. Guidelines for interpreting this applicability statement are set forthwith in Section D of the Rule 1 Definition 'Qualification for Agricultural Rates'.

None of the above activities may process the agricultural product. Residential dwelling, office, and retail usage are not agricultural end-uses.

The Rule 1 definition 'Qualification for Agricultural Rates' specifies additional activities and meters that will also be served on agricultural rates, and guidelines through the following sections: (B) Other Activities and Meters Also Served on Agricultural Rates, (C) Specific Applications of the March 2, 2006 Applicability Criteria, and (D) Guidelines for Applying the Applicability Criteria.

The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule AG-V charges. Exemptions to standby charges are outlined in the Standby Applicability Section of this rate schedule.

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 2

1. APPLICABILITY: Depending upon the end-use of electricity and whether or not a Time-Of-Use Installation or Time-Of-Use Processing charge applied prior to May 1, 2006, the customer will be served under one of the rates under Schedule AG-V: Rate A, B, D or E.
(Cont'd.)

Rates A and D: Applies to single-motor installations with a connected load rated less than 35 horsepower and to all multi-load installations aggregating less than 15 horsepower or kilowatts. Rate D applies to customers who were on Rate D as of May 1, 2006 and are not billed via SmartMeter™. Rate A applies to all other customers.

Rates B and E: Applies to single-motor installations rated 35 horsepower or more, to multi-load installations aggregating 15 horsepower or kilowatts or more, and to "overloaded" motors. The customer's end-use is determined to be overloaded when the measured input to any motor rated 15 horsepower or more is determined by PG&E to exceed one kilowatt per horsepower of nameplate rated output. Rate E applies to customers who were on Rate E as of May 1, 2006 and are not billed via SmartMeter™. Rate B applies to all other customers.

Rate B will apply to those customers whose maximum demand is 200 kW or greater for three consecutive months and select this schedule upon the initial installation of the interval data meter, unless the customer was on Rate E as of May 1, 2006 and is not billed via SmartMeter™.

Decision 18-08-013 adopted new TOU periods and new seasonal definitions for all non-residential customer classes, as well as new rates for the Agricultural customer class. Schedules AG-1, AG-4, AG-5, AG-R and AG-V will be retained as legacy rate schedules with their current TOU periods until the rates with revised TOU periods (Schedules AG and AG-F) established in the same proceeding, become mandatory in March 2021.

Decision 19-05-010 adopted additional modifications to the agricultural rates adopted in Decision 18-08-013 and delays the mandatory transition until March 2022 for highly impacted agricultural customers, defined as those customers with potential bill increases greater than 7 percent and \$100 annually due to the transition to the rates with revised TOU periods. In addition, certain qualifying customers with solar systems will be permitted to maintain their current TOU periods for a certain period of time, per Decision 17-01-006, as described in Electric Rule 1, Definitions: Behind the Meter Solar TOU Grandfathering and Eligibility Requirements.

The new rates with revised TOU periods adopted in D.18-08-013 and modified in D.19-05-010 will be available on a voluntary basis for qualifying customers beginning March 1, 2020. During this voluntary period from March 1, 2020 through February 28, 2021:

(N)

(N)

(Continued)

Advice	5709-E	Issued by	Submitted	December 9, 2019
Decision	D.18-08-013 and	Robert S. Kenney	Effective	March 1, 2020
	D.19-05-010	Vice President, Regulatory Affairs	Resolution	



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 3

1. APPLICABILITY:
(Cont'd.)

Schedule AG, with revised TOU periods, will be available for voluntary enrollment for customers with interval meters that can be remotely read by PG&E.

Customers taking service under Schedule AG-V at the time rates with new TOU periods become available, may transfer to new Schedule AG or Schedule AG-F, with revised TOU periods, may remain on this rate until rates with revised TOU periods become mandatory, in March 2021, or, on an exceptions basis, may request to transfer to another legacy rate pursuant to Electric Rule 12, Section C, or in accordance with Electric Rule 1 as referenced above, for solar grandfathered customers.

Beginning March 2021, customers served under Schedule AG-V will transition to the rate plans under Schedule AG with revised TOU periods on a mandatory basis or may elect service under optional Schedule AG-F or any other rate plan for which they are eligible.

Customers on AG-VA or AG-VD, with an interval meter that have at least twelve (12) billing months hourly usage data available, and a maximum demand less than 35 kW, will transition to rate AG-A1 under Schedule AG, or may elect to enroll in AG-A2 or AG-FA under Schedule AG-F.

Customers on AG-VA or AG-VD, with a maximum demand of 35 kW or greater, for three consecutive months in the most recent twelve months, or on AG-VB or AG-VE will transition to AG-B under Schedule AG, or may elect to enroll in AG-C, or AG-FB or AG-FC under Schedule AG-F.

Summarized below:

Legacy Rate	Defaults to service under Schedule AG:	Or May Opt-In to
AG-VA/D < 35 kW	<u>AG-A1</u>	AG-A2, AG-FA
AG-VA/D >= 35 kW	<u>AG-B</u>	AG-C, AG-FB, AG-FC
AG-VB/E	<u>AG-B</u>	AG-C, AG-FB, AG-FC

The transition of customers no longer eligible for AG-V to Schedule AG with revised TOU periods will occur on the start of the customer's March billing cycle. Customers will have at least 45-days' notice prior to their scheduled transition date, during which they will continue to take service on this rate schedule. Customers may elect any applicable rate plan with revised TOU periods, based on their eligibility, up to five (5) days prior to the planned transition date to the new Schedule AG.

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

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Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

December 9, 2019
March 1, 2020



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 4

1. APPLICABILITY: Exemptions to the mandatory transitions beginning in March 2021 include:
(Cont'd.)

(N)

Qualifying customers with solar systems who meet the requirements in Rule 1 Definition of "Behind-the-Meter Solar TOU Period Grandfathering" and the terms of "Behind-the-Meter Solar TOU Period Grandfathering Eligibility Requirements" shall be permitted to maintain their legacy TOU rate periods, until the date ten years after their system received its permission to operate (but in no event beyond December 31, 2027 (for public schools) or July 31, 2027 (for all other qualifying). However, rates for those TOU rate periods will be updated with new rates as authorized in applicable PG&E rate proceedings and advice filings.

"Highly impacted" customers, defined as those agricultural customers with potential bill increases greater than 7 percent and \$100 annually due to the transition, may remain on their legacy rate schedule for an additional year but must transition to the new rates with revised TOU periods in March 2022. Decision 19-05-010 delays the mandatory transition to rates with revised TOU periods for these "highly impacted" customers and clarifies that net energy metering (NEM) customers, direct access customers, and community choice aggregation customers and accounts beginning service on or after August 9, 2018 are not eligible for "highly impacted" subgroup exemptions from the mandatory TOU transition in March 2021.

Customers that do not have a meter that is capable of billing on the new Schedule AG on or after March 2021, may continue service on this schedule until they receive an interval meter and have at least twelve (12) months of hourly usage data available.

The mandatory transition process will occur each March to transition all applicable remaining AG-V customers to the rates with revised TOU periods as described above.

All AG-VA and AG-VD customers will convert from connected load demand to metered demand in March 2022 for customers with meters having that capability.

(N)

The meters required for this schedule may become obsolete as a result of electric industry restructuring or other action by the California Public Utilities Commission. Therefore, any and all risks of paying the required charges and not receiving commensurate benefit are entirely that of the customer.

(L)

Ongoing daily Time-of-Use (TOU) meter charges applicable to customers taking voluntary TOU service under this rate schedule will no longer be applied if the customer has a SmartMeter™ installed.

Transfers Off of Schedule AG-V: After being placed on this schedule due to the 200 kW or greater provisions of this schedule, customers who fail to exceed 199 kilowatts for 12 consecutive months may elect to stay on this schedule or alternate time-of-use rate schedule.

(L)

(Continued)

Advice	5709-E	Issued by	Submitted	December 9, 2019
Decision	D.18-08-013 and	Robert S. Kenney	Effective	March 1, 2020
	D.19-05-010	Vice President, Regulatory Affairs	Resolution	



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 5

1. APPLICABILITY:
(cont'd)

Peak Day Pricing Default Rates: Peak Day Pricing (PDP) rates provide customers the opportunity to manage their electric costs by reducing load during high cost periods or shifting load from high cost periods to lower cost periods. Decision 10-02-032 ordered that beginning February 1, 2011, eligible large Agricultural customers default to PDP rates. A customer is eligible for default when 1) it has at least twelve (12) billing months of hourly usage data available, and 2) it has measured demands equal to or exceeding 200 kW for three (3) consecutive months during the past 12 months. All eligible customers served on this schedule will be placed on AG-4C PDP rates unless they opt-out.

Decision 18-08-013 temporarily suspends the default of eligible AG-V customers to PDP beginning March 1, 2019. Customers that do not meet default eligibility may voluntarily elect to enroll on PDP rates. An AG-V customer that defaulted or voluntarily elected to enroll in a PDP rate may return back to rate schedule AG-V as long as the rate is in effect. For additional PDP details and program specifics, see rate schedule AG-4.

Bundled service customers are eligible for PDP. Direct Access (DA) and Community Choice Aggregation (CCA) service customers are not eligible, including those DA customers on transitional bundled service (TBS). Customers on standby service (Schedule S) and net-energy metering (NEM, NEMFC, NEMBIO, etc.) are not eligible for PDP.

(L)

(L)

(L)(D)

(L)(D)

2. TERRITORY:

Schedule AG-V applies everywhere PG&E provides electricity service

(L)

(Continued)

Advice 5709-E
Decision D.18-08-013 and
D.19-05-010

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Robert S. Kenney
Vice President, Regulatory Affairs

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Effective
Resolution

December 9, 2019
March 1, 2020



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 6

3. RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing. (L)

TOTAL RATES

Total Customer/Meter Charge Rates	Rate A,D	Rate B,E
Customer Charge (\$ per meter per day)	\$0.57400	\$0.76313
TOU Meter Charge (\$ per meter per day) (for rate A & B)	\$0.22341	\$0.19713
TOU Meter Charge (\$ per meter per day) (for rate D & E)	\$0.06571	\$0.03943
Total Demand Rates (\$ per kW)		
Connected Load Summer	\$8.14	—
Connected Load Winter	\$1.37	—
Maximum Peak Demand Summer	—	\$4.30
Maximum Demand Summer	—	\$11.14
Maximum Demand Winter	—	\$2.18
Primary Voltage Discount Summer	—	\$1.04
Primary Voltage Discount Winter	—	\$0.34
Total Energy Rates (\$ per kWh)		
Peak Summer	\$0.54909	\$0.49504
Off-Peak Summer	\$0.20436	\$0.19169
Part-Peak Winter	\$0.21329	\$0.18221
Off-Peak Winter	\$0.17533	\$0.15163

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 7

3. RATES: Total bundled service charges shown on customers' bills are unbundled according to the (L)
(Cont'd.) component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer/Meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand Rates by Component (\$ per kW)	Rate A,D	Rate B,E
Generation:		
Connected Load Summer	\$1.61	—
Connected Load Winter	\$0.00	—
Maximum Peak Demand Summer	—	\$2.73
Maximum Demand Summer	—	\$2.12
Maximum Demand Winter	—	\$0.00
Primary Voltage Discount Summer	—	\$0.62
Primary Voltage Discount Winter	—	\$0.00
Distribution**:		
Connected Load Summer	\$6.53	—
Connected Load Winter	\$1.37	—
Maximum Peak Demand Summer	—	\$1.57
Maximum Demand Summer	—	\$9.02
Maximum Demand Winter	—	\$2.18
Primary Voltage Discount Summer	—	\$0.42
Primary Voltage Discount Winter	—	\$0.34
Energy Rate by Components (\$ per kWh)		
Generation:		
Peak Summer	\$0.26550	\$0.24819
Off-Peak Summer	\$0.07644	\$0.07727
Part-Peak Winter	\$0.08573	\$0.07333
	\$0.07362	\$0.06299
Distribution**:		
Peak Summer	\$0.23648	\$0.20066
Off-Peak Summer	\$0.08081	\$0.06823
Part-Peak Winter	\$0.08045	\$0.06269
Off-Peak Winter	\$0.05460	\$0.04245
Transmission* (all usage)	\$0.02202	\$0.02202
Transmission Rate Adjustments* (all usage)	\$0.00314	\$0.00314
Reliability Services* (all usage)	(\$0.00041)	(\$0.00041)
Public Purpose Programs (all usage)	\$0.01397	\$0.01305
Nuclear Decommissioning (all usage)	\$0.00088	\$0.00088
Competition Transition Charges (all usage)	\$0.00096	\$0.00096
Energy Cost Recovery Amount (all usage)	(\$0.00057)	(\$0.00057)
DWR Bond (all usage)	\$0.00580	\$0.00580
New System Generation Charge (all usage)**	\$0.00132	\$0.00132
California Climate Credit (all usage)***	\$0.00000	\$0.00000

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and New System Generation Charges are combined for presentation on customer bills.

*** Only customers that qualify as Small Businesses – California Climate Credit under Rule 1 are eligible for the California Climate Credit.

(Continued)

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Decision

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February 4, 2020
March 1, 2020



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 8

- | | | |
|-----------------------------------|---|------------------------------------|
| 4. METERING
REQUIRE-
METNS: | <p>PG&E will install a time-of-use meter that is appropriate for this schedule that measures and registers the amount of electricity a customer uses.</p> <p>Customers with a maximum demand of 200 kW or greater for three consecutive months must have an interval data meter that can be read remotely by PG&E, except customers that are identified as load research sites. A Meter Data Management Agent (MDMA) may also read the customer's meter on behalf of the customer's Energy Service Provider (ESP) if a customer is receiving Direct Access Service.</p> <p>For bundled service customers with a maximum demand of 200 kW or greater for three consecutive months, PG&E will provide and install the interval data meter at no additional cost to the customer. After the meter is installed, the customer must take service on a time-of-use rate schedule. The installation of an interval data meter for customers taking service under the provisions of Direct Access is the responsibility of the customer's Energy Service Provider, or their Agent, and must be installed in accordance with Electric Rule 22.</p> <p>If the customer does not currently qualify for an interval data meter, the customer must pay PG&E for the cost of purchasing and installing an interval meter, together with applicable Income Tax Component of Contribution (ITCC) charges and the cost to operate and maintain the interval meter, and must sign an Interval Meter Installation Service Agreement (Form 79-984).</p> <p>Customers who also request any meter data management services must also sign an Interval Meter Data Management Service Agreement (Form 79-985) and must have an appropriate interval data meter.</p> | <p>(L)</p> <p>-----</p> <p>(L)</p> |
|-----------------------------------|---|------------------------------------|

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 9

5. TIME PERIODS:

Seasons of the year and times of the day are defined as follows:

(L)

<u>SUMMER:</u> Service from May 1 through October 31.		
Peak:*		
Group I	12:00 noon to 4:00 p.m.	Monday through Friday **
Group II	1:00 p.m. to 5:00 p.m.	Monday through Friday **
Group III	2:00 p.m. to 6:00 p.m.	Monday through Friday **
Off-Peak		
	All other hours	Monday through Friday
	All day	Saturday, Sunday, holidays
<u>WINTER:</u> Service from November 1 through April 30.		
Partial-Peak:		
	8:30 a.m. to 9:30 p.m.	Monday through Friday**
Off-Peak		
	All other hours	Monday through Friday
	All day	Saturday, Sunday, holidays

"Holidays" for the purpose of this rate schedule are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, and Christmas Day. The dates will be those on which the holidays are legally observed.

* Providing space is available, you may have the option of choosing between assignment to Group I, Group II, or Group III for the applicable peak-period hours.

** Except holidays.

DAYLIGHT SAVING TIME ADJUSTMENT: The time periods shown above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April, and for the period between the last Sunday in October and the first Sunday in November.

6. ENERGY CHARGE CALCULATION:

When summer and winter proration is required, charges will be based on the average daily use for the full billing periods times the number of days in each period.

7. CONTRACTS:

Service under Schedule AG-V is provided for a minimum of 12 months beginning with the date your service commences. You may be required to sign a service contract with a minimum term of one year. After your initial one-year term has expired, your contract will continue in effect until it is canceled by you or PG&E.

Where a line extension is required it will be installed under the provisions of Rules 15 and 16.

(L)

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 10

- | | | |
|--|---|--|
| 8. CONNECTED
LOAD (Rates A
and D): | <p>Connected load is defined as the sum of the rated capacities (as determined in accordance with Rule 2) of all equipment that is served through one metering point and that may be operated at the same time. When charges are based on connected load, in no case will charges be based on less than two horsepower/kilowatts for single-phase service, nor less than three horsepower/kilowatts for three-phase service.</p> <p>The customer's account will be adjusted for permanent connected-load changes that take place during the contract year. It is the customer's responsibility to notify PG&E of such changes. No adjustment will be made for a temporary reduction in connected load. If the load is reconnected within 12 months of being disconnected, the charges will be recalculated and applied retroactively as though no reduction in load had taken place.</p> <p>All AG-VA and AG-VD customers will convert from connected load demand to metered demand in March 2022 for customers with meters having that capability.</p> | <p>(L)</p> <p>-----</p> <p>(L)</p> <p>(N)</p> <p>(N)</p> |
| 9. MAXIMUM
DEMAND: | <p>If the customer is a Rate B or E customer, the maximum demand will be based on the number of kW the customer is using recorded over 15-minute intervals; the highest 15-minute average in any month will be the maximum demand for that month. Where the customer's use of electricity is intermittent or subject to abnormal fluctuation, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The welder load calculation will apply only in the season in which the customer usually uses energy, which will be assumed to be the summer season unless otherwise designated.</p> <p>In billing periods with use in both the summer season and winter season (April/May, October/November), the customer's total demand charge shall be calculated on a pro rata basis depending upon the demand charge and the number of days in each season. The maximum demand used in determining the customer's demand charge for each season of the billing period will be: (1) the maximum demand created in each season's portion of the billing month as measured by a meter with such capability; or (2) the maximum demand for the billing month where the installed meter is incapable of measuring time-varying demands.</p> | <p>(L)</p> <p>-----</p> <p>(L)</p> |

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 11

9. MAXIMUM DEMAND (cont'd) For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule. (L)
- If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).
- To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).
10. MAXIMUM-PEAK-PERIOD DEMAND (Rates B and E Only): The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month.
11. DEFINITION OF SERVICE VOLTAGE: The following defines the three voltage classes of Schedule AG-V rates. Standard Service Voltages are listed in Rule 2, Section B.1.
- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
- b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- PG&E retains the right to change its line voltage at any time. Customers receiving voltage discounts will get reasonable notice of any impending change. They will then have the option of taking service at the new voltage (and making whatever changes in their systems are necessary) or taking service without a voltage discount through transformers supplied by PG&E. (L)

(Continued)

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Decision D.18-08-013 and
D.19-05-010

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Vice President, Regulatory Affairs

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December 9, 2019
March 1, 2020



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 12

12. BILLING: A customer's bill is calculated based on the option applicable to the customer. (L)

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

	<u>DA / CCA CRS</u>
Energy Cost Recovery Amount Charge (per kWh)	(\$0.00057)
DWR Bond Charge (per kWh)	\$0.00580
CTC Charge (per kWh)	\$0.00096
Power Charge Indifference Adjustment (per kWh)	
2009 Vintage	\$0.01886
2010 Vintage	\$0.02186
2011 Vintage	\$0.02275
2012 Vintage	\$0.02378
2013 Vintage	\$0.02396
2014 Vintage	\$0.02398
2015 Vintage	\$0.02404
2016 Vintage	\$0.02394
2017 Vintage	\$0.02399
2018 Vintage	\$0.02406
2019 Vintage	\$0.02605

(L)

(Continued)



ELECTRIC SCHEDULE AG-V
SHORT-PEAK TIME-OF-USE AGRICULTURAL POWER

Sheet 13

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|-------------------------------|--|-----|
| 13. STANDBY
APPLICABILITY: | <p>SOLAR GENERATION FACILITIES EXEMPTION: Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.</p> <p>DISTRIBUTED ENERGY RESOURCES EXEMPTION: Any customer under a time-of-use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable standby reservation charges. Customers qualifying for this exemption shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take time-of-use service to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (TOU) and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - <i>Competition Transition Charge Responsibility for All Customers and CTC Procurement</i>, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.</p> | (L) |
| 14. DWR BOND
CHARGE: | <p>The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.</p> | (L) |

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

AT&T	Downey & Brand	Pioneer Community Energy
Albion Power Company	East Bay Community Energy	Praxair
Alcantar & Kahl LLP	Ellison Schneider & Harris LLP	
	Energy Management Service	Redwood Coast Energy Authority
Alta Power Group, LLC	Engineers and Scientists of California	Regulatory & Cogeneration Service, Inc.
Anderson & Poole	Evaluation + Strategy for Social	SCD Energy Solutions
	Innovation	
Atlas ReFuel	GenOn Energy, Inc.	SCE
BART	Goodin, MacBride, Squeri, Schlotz &	SDG&E and SoCalGas
	Ritchie	
Barkovich & Yap, Inc.	Green Charge Networks	SPURR
P.C. CalCom Solar	Green Power Institute	San Francisco Water Power and Sewer
California Cotton Ginners & Growers Assn	Hanna & Morton	Seattle City Light
California Energy Commission	ICF	Sempra Utilities
California Public Utilities Commission	IGS Energy	Southern California Edison Company
California State Association of Counties	International Power Technology	Southern California Gas Company
Calpine	Intestate Gas Services, Inc.	Spark Energy
	Kelly Group	Sun Light & Power
Cameron-Daniel, P.C.	Ken Bohn Consulting	Sunshine Design
Casner, Steve	Keyes & Fox LLP	Tecogen, Inc.
Cenergy Power	Leviton Manufacturing Co., Inc. Linde	TerraVerde Renewable Partners
Center for Biological Diversity	Los Angeles County Integrated	Tiger Natural Gas, Inc.
	Waste Management Task Force	
Chevron Pipeline and Power	Los Angeles Dept of Water & Power	TransCanada
City of Palo Alto	MRW & Associates	Troutman Sanders LLP
	Manatt Phelps Phillips	Utility Cost Management
City of San Jose	Marin Energy Authority	Utility Power Solutions
Clean Power Research	McKenzie & Associates	Utility Specialists
Coast Economic Consulting		
Commercial Energy	Modesto Irrigation District	Verizon
County of Tehama - Department of Public	Morgan Stanley	Water and Energy Consulting Wellhead
Works	NLine Energy, Inc.	Electric Company
Crossborder Energy	NRG Solar	Western Manufactured Housing
Crown Road Energy, LLC		Communities Association (WMA)
Davis Wright Tremaine LLP	Office of Ratepayer Advocates	Yep Energy
Day Carter Murphy	OnGrid Solar	
	Pacific Gas and Electric Company	
Dept of General Services	Peninsula Clean Energy	
Don Pickett & Associates, Inc.		
Douglass & Liddell		