

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



November 23, 2016

**Advice Letter 4933-E**

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

**SUBJECT: Green Tariff Shared Renewables and Enhanced Community Renewables  
2017 Rate Proposal**

Dear Mr. Jacobson:

Advice Letter 4933-E is effective as of November 6, 2016.

Sincerely,

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

Edward Randolph  
Director, Energy Division

October 7, 2016

**Advice 4933-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Green Tariff Shared Renewables and Enhanced Community Renewables 2017 Rate Proposal**

Pacific Gas and Electric Company (PG&E) hereby submits its proposed 2017 rates for PG&E's Green Tariff Shared Renewables (GTSR) Program pursuant to Decision (D.) 15-01-051. PG&E's GTSR Program offers two rate options for customers to subscribe to the program: (1) Electric - Green Tariff (E-GT), also known as PG&E's Solar Choice Program and (2) Electric - Enhanced Community Renewables (E-ECR), also known as PG&E's Regional Solar Choice Program.<sup>1</sup>

**Purpose**

The purpose of this advice letter is to request the California Public Utilities Commission (Commission or CPUC) to approve PG&E's 2017 rate proposal for bill charges and credits associated with PG&E's GTSR Program. This request is consistent with D.15-01-051 directives, which state that, (1) changes to the rates can be accomplished through advice letters and (2) the renewable power rate (RPR) and other components of GTSR rates should be updated annually.<sup>2</sup> The tariff for Schedules E-GT and E-ECR have been updated with the revised rates and are included as Attachment A.

**Background**

PG&E's Green Tariff Shared Renewables Program (GTSR) was established as required by Senate Bill (SB) 43, and implemented by the Commission in D.15-01-051 on February 2, 2015, issued in Application (A.) 12-04-020. This program was established to expand access to renewable energy resources, and to create a mechanism by which institutional customers, commercial customers, and individuals can meet their electrical needs with generation from renewable energy resources.

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<sup>1</sup> E-GT: [http://www.pge.com/notes/rates/tariffs/tm2/pdf/ELEC\\_SCHEDS\\_E-GT.pdf](http://www.pge.com/notes/rates/tariffs/tm2/pdf/ELEC_SCHEDS_E-GT.pdf);  
E-ECR: [http://www.pge.com/notes/rates/tariffs/tm2/pdf/ELEC\\_SCHEDS\\_E-ECR.pdf](http://www.pge.com/notes/rates/tariffs/tm2/pdf/ELEC_SCHEDS_E-ECR.pdf);  
PG&E's Green Tariff Shared Renewables Program: GTSR Program

<sup>2</sup> D.15-01-051, p. 130 and Conclusion of Law (COL) 51 and COL 53.

On May 13, 2015, PG&E filed Advice Letter 4639-E, the GTSR Customer Side Implementation Advice Letter (CSIAL), in accordance with D.15-01-051, OP, 2, providing details regarding PG&E's program design, which included the two new rates schedules associated with the program, E-GT and E-ECR. Resolution E-4734, issued on October 2, 2015, approved PG&E's CSIAL with modifications. PG&E submitted Compliance Advice Letter 4639-E-A on October 21, 2015, which presented updated Tariffs for the E-GT and E-ECR programs and updated rate components consistent with rate projections included in PG&E's Annual Electric True-up Advice Letter filing, requesting rates effective January 1, 2016. PG&E's Advice Letters 4639-E and 4639-E-A were approved effective November 20, 2015.

## **Request**

### **2017 Rates for Schedules E-GT and E-ECR**

PG&E's request in this advice letter is to update the GTSR Program rate components for rates effective January 1, 2017. The GTSR Program bill credit and charges that make-up the E-GT and E-ECR rates are:

1. Solar Rate (E-GT rate schedule only)
2. Power Charge Indifference Amount (PCIA)
3. Program Charge
  - a. Resource Adequacy (RA) Charge
  - b. California Independent System Operator (CAISO) Grid Management Charge (GMC)
  - c. Western Renewable Energy Generation Information System (WREGIS) Fees,
  - d. Renewable Integration Charges (RIC)
  - e. Solar Value Adjustment (Time of Day (TOD) and Resource Adequacy (RA))
  - f. Administrative and Marketing Costs
4. Class Average Generation Rate

All the rate components are updated in this request for 2017 with the exception of the RIC, which will remain unchanged for 2017.<sup>3</sup>

The updated Solar Rate for 2017 is comprised of a combination of forecast deliveries from projects which were procured under the Commission's advance procurement directive and are dedicated GTSR Program resources, as well as deliveries from the interim pool of resources. Power deliveries from the interim pool will continue to be utilized in 2017, as the projects procured under the advance procurement will not begin deliveries until the latter

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<sup>3</sup> D.15-01-051 set the RIC at zero and ordered that within 60 days of a decision setting a RIC charge for ratepayers, the IOUs should file a Tier 3 Advice Letter setting forth how the RIC will be allocated to customers (both new and existing). The RIC is currently being evaluated in R.11-05-005 but as of the date of this filing, no RIC has been approved.

half of the forecast year, and 2017 deliveries from those projects will not be sufficient to meet forecast demand under the program in 2017. PG&E has added 14 new projects to the interim pool of resources to bring the total to 34 projects. These projects are sized from 0.5 to 20 MWs, located within PG&E's service area and acquired through PG&E's Renewable Auction Mechanism, Feed-in Tariff, and Photovoltaic request for offer (RFO) process.

The PCIA and the RA charge presented in the 2017 request are consistent with PG&E's 2017 ERRA Forecast rates, filed in June 2016 and consistent with the supplemental Annual Electric True-up (AET) Advice Letter 4902-E-A. PG&E will be updating these rates in its November ERRA Forecast update, which is expected to be approved in December, and consolidated with other approved electric rate changes through the Annual Electric True-up (AET) process.<sup>4</sup>

The costs for CAISO GMC have been updated and are based on a 3-year rolling average of recorded data as presented in FERC Form 1. Lastly, the WREGIS fee, the Solar Value Adjustment, and Administrative and Marketing expenses have been updated based on PG&E's current forecast of sales, interim pool and dedicated resource mix, and expected administrative and marketing expenditures. Workpapers supporting the updated estimates for all GTSR Program charges and credits are included in Attachment B of this advice letter.

In addition to updating the 2017 cost forecast for the GTSR rate components, PG&E is including amortization of the expected end-of-year balance in the Green Tariff Shared Renewables Balancing Account (GTSRBA), which will include a true-up for PG&E's 2016 Solar Generation rate for actual costs and generation associated with the interim pool resources used to support the E-GT sales. The actual costs and generation are based on recorded costs incurred to date and forecast to be incurred through the end of the year as well as the GTSR program sales.

The true-up of the GTSR solar rate component will be reflected in the GTSRBA balance as of December 31, 2016, and as required by D.15-01-051, PG&E will present a summary of the true-up of costs and revenues against charges and credits applied to the GTSR customers in PG&E's annual ERRA Compliance Review Application,<sup>5</sup> which will be submitted to the Commission in February of 2017, reviewing balancing account activity for 2016.

Table 1 below summarizes the charges and credits, and presents an illustrative of set of rate schedules. The details for all rate schedules are summarized in PG&E's workpapers, which are included in Attachment B.

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<sup>4</sup> See PG&E's 2017 Annual Electric True-up Advice Letter, [4902-E](#) and [4902-E-A](#).

<sup>5</sup> Decision 15-01-051, Conclusion of Law 59

**Table 1**  
**PACIFIC GAS AND ELECTRIC COMPANY**  
**GTSR Program - 2017**  
**E-GT Option**

	E-1	A1	A-10	E-19	AG	E-20 T
	cents/kwh	cents/kwh	cents/kwh	cents/kwh	cents/kwh	cents/kwh
<b>Charges</b>						
<b>Solar Generation Price – updated<sup>[1]</sup></b>	<b>7.879</b>	<b>7.879</b>	<b>7.879</b>	<b>7.879</b>	<b>7.879</b>	<b>7.879</b>
PCIA – updated <sup>[2]</sup>	2.868	2.206	2.320	1.960	2.339	1.584
Renewable Integration Charge	-	-	-	-	-	-
Marketing & Administration	0.600	0.600	0.600	0.600	0.600	0.600
Resource Adequacy – updated <sup>[2]</sup>	1.268	1.268	1.268	1.268	1.268	1.268
CA ISO Charges	0.074	0.074	0.074	0.074	0.074	0.074
WREGIS Fees	0.001	0.001	0.001	0.001	0.001	0.001
<b>Subtotal</b>	<b>12.690</b>	<b>12.028</b>	<b>12.142</b>	<b>11.782</b>	<b>12.161</b>	<b>11.406</b>
<b>Credits</b>						
<b>Class Average Generation Rate – updated<sup>[3]</sup></b>	<b>9.287</b>	<b>9.524</b>	<b>9.674</b>	<b>8.905</b>	<b>7.723</b>	<b>7.482</b>
<u>Solar Value Adjustment</u>						
TOD - updated <sup>[3]</sup>	0.214	0.438	0.257	0.474	0.325	0.417
RA – updated <sup>[1, 2]</sup>	0.238	0.238	0.238	0.238	0.238	0.238
Other	-	-	-	-	-	-
<b>Subtotal</b>	<b>9.739</b>	<b>10.200</b>	<b>10.169</b>	<b>9.617</b>	<b>8.286</b>	<b>8.137</b>
<b>2017 Premium (cents/kwh)</b>	<b>2.951</b>	<b>1.828</b>	<b>1.973</b>	<b>2.165</b>	<b>3.875</b>	<b>3.269</b>

1. Expanded Interim Pool List.
2. The PCIA and Resource Adequacy charge reflect values presented in PG&E's 2017 June ERRF Forecast Application. Final updated values for these charges will be presented in PG&E's November ERRF Forecast update and consolidated with other rate changes through the Annual Electric True-up (AET) process, which will be filed as a supplemental Advice Letter 4902-E in December.
3. The class average generation rate will be updated, consistent with the final generation rates implemented through the AET process, which will be filed as a supplement to Advice Letter 4902-E in December.

**Table 2**  
**PACIFIC GAS AND ELECTRIC COMPANY**  
**GTSR Program - 2017**  
**E-ECR Option**

	E-1	A1	A-10	E-19	AG	E-20 T
	cents/kwh	cents/kwh	cents/kwh	cents/kwh	cents/kwh	cents/kwh
<b>Charges</b>						
<b>Solar Generation Price</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
PCIA – <i>updated</i> <sup>[1]</sup>	2.868	2.206	2.310	1.960	2.338	1.584
Renewable Integration Charge	-	-	-	-	-	-
Marketing & Administration	0.253	0.253	0.253	0.253	0.253	0.253
Resource Adequacy – <i>updated</i> <sup>[1]</sup>	1.268	1.268	1.268	1.268	1.268	1.268
CA ISO Charges	0.074	0.074	0.074	0.074	0.074	0.074
WREGIS Fees	0.001	0.001	0.001	0.001	0.001	0.001
<b>Subtotal</b>	<b>4.464</b>	<b>3.802</b>	<b>3.916</b>	<b>3.556</b>	<b>3.935</b>	<b>3.180</b>
<b>Credits</b>						
<b>Class Average Generation Rate – <i>updated</i></b> <sup>[2]</sup>	<b>9.287</b>	<b>9.524</b>	<b>9.674</b>	<b>8.905</b>	<b>7.723</b>	<b>7.482</b>
<b>Solar Value Adjustment</b>						
TOD – <i>updated</i> <sup>[3]</sup>	0.214	0.438	0.257	0.474	0.325	0.417
RA – <i>updated</i> <sup>[3]</sup>	0.238	0.238	0.238	0.238	0.238	0.238
Other	-	-	-	-	-	-
<b>Subtotal</b>	<b>9.739</b>	<b>10.200</b>	<b>10.169</b>	<b>9.617</b>	<b>8.286</b>	<b>8.137</b>
<b>2017 Credit (cents/kwh)</b>	<b>(5.275)</b>	<b>(6.398)</b>	<b>(6.253)</b>	<b>(6.061)</b>	<b>(4.351)</b>	<b>(4.957)</b>

1. The PCIA and Resource Adequacy charge reflect values presented in PG&E's 2017 June ERRAs Forecast Application. Final updated values for these charges will be presented in PG&E's November ERRAs forecast update and consolidated with other rate changes through the Annual Electric True-up (AET) process, which will be filed as a supplement to Advice Letter 4902-E in December.
2. The class average generation rate will be updated, consistent with the final generation rates implemented through the AET process, Advice Letter 4902-E.
3. The actual solar value adjustment (SVA) for the TOD and the RA credit will be based on the actual ECR resource. The SVA TOD and SVA RA values presented in the E-ECR table above are illustrative only and are based on the dedicated GTSR Program resources and interim pool of resources used to support the E-GT Schedule. The values are included to provide an approximation for the expected 2017 credit value for the ECR option.

**Proposed Tariff Changes**

Illustrative rates are shown in the attached Schedules E-GT and E-ECR, which PG&E proposes to update in a supplemental Tier 1 advice letter, to be consistent with the consolidated rate changes implemented on January 1, 2017, through the AET process.

**Protests**

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, facsimile or E-mail, no later than October 27, 2016, which is 20 days after the date of this filing. Protests must be submitted to:

CPUC Energy Division  
ED Tariff Unit  
505 Van Ness Avenue, 4<sup>th</sup> 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 B10C  
P.O. Box 770000  
San Francisco, California 94177

Facsimile: (415) 973-1448  
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was

sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

**Effective Date**

PG&E requests that the Energy Division issue a disposition letter approving this Tier 2 advice letter on regular notice, November 6, 2016, which 30 days after the date of this filing.

**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 A.12-04-020. 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 filings can also be accessed electronically at: <http://www.pge.com/tariffs/>.

\_\_\_\_\_/S/

Erik Jacobson  
Director, Regulatory Relations

**Attachment**

Attachment A – Pro Forma Tariffs - Electric Schedule E-GT and Electric Schedule E-ECR  
Attachment B – 2017 GTSR Program Rate Workpapers (Redacted Public Version)  
Attachment C – Confidential Declaration & Matrix

cc: Service List A.12-04-020



# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

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

Company name/CPUC Utility No. **Pacific Gas and Electric Company (ID U39 E)**

Utility type:

ELC       GAS  
 PLC       HEAT       WATER

Contact Person: Yvonne Yang

Phone #: (415) 973-2094

E-mail: QXY1@pge.com and PGETariffs@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric      GAS = Gas  
PLC = Pipeline      HEAT = Heat      WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **4933-E**

**Tier: 2**

Subject of AL: **Green Tariff Shared Renewables and Enhanced Community Renewables 2017 Rate Proposal**

Keywords (choose from CPUC listing): Compliance, Increase Rates

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other \_\_\_\_\_

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: D.15-01-051

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: \_\_\_\_\_

Is AL requesting confidential treatment? If so, what information is the utility seeking confidential treatment for: Yes. See the attached matrix that identifies all of the confidential information

Confidential information will be made available to those who have executed a nondisclosure agreement:  Yes  No

Name(s) and contact information of the person(s) who will provide the nondisclosure agreement and access to the confidential information: Donna Barry (415) 973 – 5707 or DLBf@pge.com

Resolution Required?  Yes  No

Requested effective date: **November 6, 2016**

No. of tariff sheets: N/A

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). N/A

Tariff schedules affected: N/A

Service affected and changes proposed: N/A

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

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

**California Public Utilities Commission**

**Energy Division**

**EDTariffUnit**

**505 Van Ness Ave., 4<sup>th</sup> Flr.**

**San Francisco, CA 94102**

**E-mail: EDTariffUnit@cpuc.ca.gov**

**Pacific Gas and Electric Company**

**Attn: Erik Jacobson**

**Director, Regulatory Relations**

**c/o Megan Lawson**

**77 Beale Street, Mail Code B10C**

**P.O. Box 770000**

**San Francisco, CA 94177**

**E-mail: PGETariffs@pge.com**

**Attachment A**  
**Pro Forma Tariffs**



**ELECTRIC SCHEDULE E-ECR**  
**ENHANCED COMMUNITY RENEWABLES PROGRAM**

Sheet 3

RATES:  
 (Cont'd.)

Customer Class	Solar Charge & Credit	Generation Credit	Program Charge**	PCIA	
Residential					
-- 2015 Vintage	\$0.00000	(\$0.09287)(I)	\$0.01144 (I)	\$0.02868 (I)	
-- 2016 Vintage	\$0.00000	(\$0.09287)(I)	\$0.01144 (I)	\$0.02868 (I)	
-- 2017 Vintage	\$0.00000	(\$0.09287)	\$0.01144	\$0.02868	(N)
Schedule A-1					
-- 2015 Vintage	\$0.00000	(\$0.09524) (I)	\$0.00920 (I)	\$0.02207 (I)	
-- 2016 Vintage	\$0.00000	(\$0.09524) (I)	\$0.00920 (I)	\$0.02206 (I)	
-- 2017 Vintage	\$0.00000	(\$0.09524)	\$0.00920	\$0.02206	(N)
Schedule A-10					
-- 2015 Vintage	\$0.00000	(\$0.09674) (I)	\$0.01101 (I)	\$0.02321 (I)	
-- 2016 Vintage	\$0.00000	(\$0.09674) (I)	\$0.01101 (I)	\$0.02320 (I)	
-- 2017 Vintage	\$0.00000	(\$0.09674)	\$0.01101	\$0.02320	(N)
Schedule E-19					
-- 2015 Vintage	\$0.00000	(\$0.08905) (I)	\$0.00884 (I)	\$0.01961 (I)	
-- 2016 Vintage	\$0.00000	(\$0.08905) (I)	\$0.00884 (I)	\$0.01960 (I)	
-- 2017 Vintage	\$0.00000	(\$0.08905)	\$0.00884	\$0.01960	(N)
Schedule LS-3					
-- 2015 Vintage	\$0.00000	(\$0.07555) (I)	\$0.00797 (I)	\$0.00340 (I)	
-- 2016 Vintage	\$0.00000	(\$0.07555) (I)	\$0.00797 (I)	\$0.00340 (I)	
-- 2017 Vintage	\$0.00000	(\$0.07555)	\$0.00797	\$0.00340	(N)
Agriculture and Schedule E-37					
-- 2015 Vintage	\$0.00000	(\$0.07723) (I)	\$0.01033 (I)	\$0.02339 (I)	
-- 2016 Vintage	\$0.00000	(\$0.07723) (I)	\$0.01033 (I)	\$0.02339 (I)	
-- 2017 Vintage	\$0.00000	(\$0.07723)	\$0.01033	\$0.02339	(N)
Schedule E-20 T					
-- 2015 Vintage	\$0.00000	(\$0.07482) (I)	\$0.00941 (I)	\$0.01585 (I)	
-- 2016 Vintage	\$0.00000	(\$0.07482) (I)	\$0.00941 (I)	\$0.01584 (I)	
-- 2017 Vintage	\$0.00000	(\$0.07482)	\$0.00941	\$0.01584	(N)
Schedule E-20 P					
-- 2015 Vintage	\$0.00000	(\$0.08137) (I)	\$0.00954 (I)	\$0.01757 (I)	
-- 2016 Vintage	\$0.00000	(\$0.08137) (I)	\$0.00954 (I)	\$0.01757 (I)	
-- 2017 Vintage	\$0.00000	(\$0.08137)	\$0.00954	\$0.01757	(N)
Schedule E-20 S					
-- 2015 Vintage	\$0.00000	(\$0.08467) (I)	\$0.00919 (I)	\$0.01838 (I)	
-- 2016 Vintage	\$0.00000	(\$0.08467) (I)	\$0.00919 (I)	\$0.01837 (I)	
-- 2017 Vintage	\$0.00000	(\$0.08467)	\$0.00919	\$0.01837	(N)

\* The Schedule A-1 class includes Schedules A-1, A-6, A-15 and TC-1.

\*\* The program charge includes a marketing and administration charge of \$0.00253 which is composed of \$0.00064 per kWh for marketing and \$0.00189 per kWh for administrative costs.

(T)  
 (T)

(Continued)



**ELECTRIC SCHEDULE E-GT  
 GREEN TARIFF PROGRAM**

Sheet 2

RATES:  
 (Cont'd.)

**Power Charge Indifference Adjustment (PCIA):** The customer taking service under Schedule E-GT will pay an amount for PCIA which is set to ensure stranded generation costs are not shifted to non-participating customers when the customer switches to E-GT. PCIA will be assigned based on the date that the customer begins service on E-GT. If a customer begins service in the first six months of the calendar year (e.g., 2016), they are assigned the prior year's vintage (i.e., 2015). If they begin service on or after July 1, they are assigned the vintage for the current year (2016 in this example).

Schedule E-GT charges and credits are shown in the table below, and subject to adjustment annually and as approved by the Commission. No discounts (e.g., FERA, CARE) are applicable to the rates stated herein. The customer will be billed based on the sum of the Solar Charge, the Generation Credit, the Program Charge and the applicable PCIA. A customer will pay the applicable Program Charge based on the year service under this schedule was started.

Customer Class	Solar Charge	Generation Credit	Program Charge**	PCIA	
Residential					
-- 2015 Vintage	\$0.07879 (R)	(\$0.09287) (I)	\$0.01491 (I)	\$0.02868 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.09287) (I)	\$0.01491 (I)	\$0.02868 (I)	
-- 2017 Vintage	\$0.07879	(\$0.09287)	\$0.01491	\$0.02868	(N)
Schedule A-1*					
-- 2015 Vintage	\$0.07879 (R)	(\$0.09524) (I)	\$0.01267 (I)	\$0.02207 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.09524) (I)	\$0.01267 (I)	\$0.02206 (I)	
-- 2017 Vintage	\$0.07879	(\$0.09524)	\$0.01267	\$0.02206	(N)
Schedule A-10					
-- 2015 Vintage	\$0.07879 (R)	(\$0.09674) (I)	\$0.01448 (I)	\$0.02321 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.09674) (I)	\$0.01448 (I)	\$0.02320 (I)	
-- 2017 Vintage	\$0.07879	(\$0.09674)	\$0.01448	\$0.02320	(N)
Schedule E-19					
-- 2015 Vintage	\$0.07879 (R)	(\$0.08905) (I)	\$0.01231 (I)	\$0.01961 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.08905) (I)	\$0.01231 (I)	\$0.01960 (I)	
-- 2017 Vintage	\$0.07879	(\$0.08905)	\$0.01231	\$0.01960	(N)
Schedule LS-3					
-- 2015 Vintage	\$0.07879 (R)	(\$0.07555) (I)	\$0.01144 (I)	\$0.00340 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.07555) (I)	\$0.01144 (I)	\$0.00340 (I)	
-- 2017 Vintage	\$0.07879	(\$0.07555)	\$0.01144	\$0.00340	(N)
Agriculture and Schedule E-37					
-- 2015 Vintage	\$0.07879 (R)	(\$0.07723) (I)	\$0.01380 (I)	\$0.02339 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.07723) (I)	\$0.01380 (I)	\$0.02339 (I)	
-- 2017 Vintage	\$0.07879	(\$0.07723)	\$0.01380	\$0.02339	(N)
Schedule E-20 T					
-- 2015 Vintage	\$0.07879 (R)	(\$0.07482) (I)	\$0.01288 (I)	\$0.01585 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.07482) (I)	\$0.01288 (I)	\$0.01584 (I)	
-- 2017 Vintage	\$0.07879	(\$0.07482)	\$0.01288	\$0.01584	(N)
Schedule E-20 P					
-- 2015 Vintage	\$0.07879 (R)	(\$0.08137) (I)	\$0.01301 (I)	\$0.01757 (I)	
-- 2016 Vintage	\$0.07879 (R)	(\$0.08137) (I)	\$0.01301 (I)	\$0.01757 (I)	
-- 2017 Vintage	\$0.07879	(\$0.08137)	\$0.01301	\$0.01757	(N) (L)

(Continued)

Advice Letter No: 4933-E  
 Decision No. 15-01-051

Issued by  
**Steven Malnight**  
 Senior Vice President  
 Regulatory Affairs

Date Filed \_\_\_\_\_  
 Effective \_\_\_\_\_  
 Resolution No. \_\_\_\_\_



**ELECTRIC SCHEDULE E-GT  
 GREEN TARIFF PROGRAM**

Sheet 3

RATES: (Cont'd.)	Schedule E-20 S					(L)
	-- 2015 Vintage	\$0.07879 (R)	(\$0.08467) (I)	\$0.01266 (I)	\$0.01838 (I)	I
	-- 2016 Vintage	\$0.07879 (R)	(\$0.08467) (I)	\$0.01266 (I)	\$0.01837 (I)	(L)
	-- 2017 Vintage	\$0.07879	(\$0.08467)	\$0.01266	\$0.01837	(N)
	* The Schedule A-1 class includes Schedules A-1, A-6, A-15 and TC-1.					(L)
	** The program charge includes a marketing and administration charge of					I
	\$0.00600 which is composed of \$0.00411 per kWh for marketing and					(T)(L)
	\$0.00189 per kWh for administrative costs.					(T)(L)

(Continued)

Advice Letter No: 4933-E  
 Decision No. 15-01-051

Issued by  
**Steven Malnight**  
 Senior Vice President  
 Regulatory Affairs

Date Filed \_\_\_\_\_  
 Effective \_\_\_\_\_  
 Resolution No. \_\_\_\_\_





**Attachment B**

**2017 GTSR Program Rate Workpapers**

(Redacted Public Version)



PACIFIC GAS AND ELECTRIC COMPANY  
GTSR Program - 2017  
E-GT Option

	E-1 cents/kwh	A1 cents/kwh	A-6 cents/kwh	A-10 cents/kwh	E-19 cents/kwh	LS-3 cents/kwh	AG cents/kwh	E-20 T cents/kwh	E-20 P cents/kwh	E-20 S cents/kwh	
<b>Charges</b>											
Solar Generation Price - updated <sup>[1]</sup>	7.879	7.879	7.879	7.879	7.879	7.879	7.879	7.879	7.879	7.879	GTSRBA/ERRA
PCIA - updated <sup>[2]</sup>	2.868	2.206	2.206	2.320	1.960	0.340	2.339	1.584	1.757	1.837	
Renewable Integration	-	-	-	-	-	-	-	-	-	-	
Marketing & Administration	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	
Resource Adequacy - updated <sup>[2]</sup>	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268	
CAISO Charges	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	
WREGIS Fees	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
<b>Sub Total</b>	<b>12.690</b>	<b>12.028</b>	<b>12.028</b>	<b>12.142</b>	<b>11.782</b>	<b>10.162</b>	<b>12.161</b>	<b>11.406</b>	<b>11.579</b>	<b>11.659</b>	
<b>Credits</b>											
Class Average Generation Rate - updated <sup>[3]</sup>	9.287	9.524	9.524	9.674	8.905	7.555	7.723	7.482	8.137	8.467	
<u>Solar Value Adjustment</u>											
TOD - updated <sup>[3]</sup>	0.214	0.438	0.438	0.257	0.474	0.561	0.325	0.417	0.404	0.439	
RA	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	
Other	-	-	-	-	-	-	-	-	-	-	
<b>Sub Total</b>	<b>9.739</b>	<b>10.200</b>	<b>10.200</b>	<b>10.169</b>	<b>9.617</b>	<b>8.354</b>	<b>8.286</b>	<b>8.137</b>	<b>8.779</b>	<b>9.144</b>	
<b>2017 Premium (cents/kwh)</b>	<b>2.951</b>	<b>1.828</b>	<b>1.828</b>	<b>1.973</b>	<b>2.165</b>	<b>1.808</b>	<b>3.875</b>	<b>3.269</b>	<b>2.800</b>	<b>2.515</b>	

ff&u = 0.011885

**PROGRAM CHARGE**

GT Illustrative Table (cent/kWh)	E-1	A1	A-6	A-10	E-19	LS-3	AG	E-20 T	E-20 P	E-20 S	
RIC, RA, CA ISO, WREGIS	1.343	1.343	1.343	1.343	1.343	1.343	1.343	1.343	1.343	1.343	
SVA (TOD and RA Credit)	(0.452)	(0.676)	(0.676)	(0.495)	(0.712)	(0.799)	(0.563)	(0.655)	(0.642)	(0.677)	
<b>Program Charges - Gen Related</b>	<b>0.891</b>	<b>0.667</b>	<b>0.667</b>	<b>0.848</b>	<b>0.631</b>	<b>0.544</b>	<b>0.780</b>	<b>0.688</b>	<b>0.701</b>	<b>0.666</b>	GTSRBA/ERRA
Market and Admin.	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	GTSRMA
PCIA	2.868	2.206	2.206	2.320	1.960	0.340	2.339	1.584	1.757	1.837	GTSRBA/ERRA
<b>Total Program Charges</b>	<b>4.359</b>	<b>3.473</b>	<b>3.473</b>	<b>3.768</b>	<b>3.191</b>	<b>1.484</b>	<b>3.719</b>	<b>2.872</b>	<b>3.058</b>	<b>3.103</b>	
<b>Total Program Charges w/o PCIA</b>	<b>1.491</b>	<b>1.267</b>	<b>1.267</b>	<b>1.448</b>	<b>1.231</b>	<b>1.144</b>	<b>1.380</b>	<b>1.288</b>	<b>1.301</b>	<b>1.266</b>	
<b>Total Program Charges - rounded w/o PCIA</b>	<b>1.500</b>	<b>1.300</b>	<b>1.300</b>	<b>1.400</b>	<b>1.200</b>	<b>1.100</b>	<b>1.400</b>	<b>1.300</b>	<b>1.300</b>	<b>1.300</b>	

[1] Expanded Interim Pool List

[2] The PCIA and Resource Adequacy charge reflect values presented in PG&E's 2017 June ERRA Forecast Application. Final updated values for these charges will be presented in PG&E's November ERRA Forecast update and consolidated with other rate changes through the Annual Electric True-up (AET) process, which will be filed as a supplement to Advice Letter 4902-E in December.

[3] The class average generation rate will be updated, consistent with the final generation rates implemented through the AET process, which will be filed as a supplement to Advice Letter 4902-E.

PACIFIC GAS AND ELECTRIC COMPANY  
GTSR Program - 2017  
E-ECR Option

	E-1 cents/kwh	A1 cents/kwh	A-6 cents/kwh	A-10 cents/kwh	E-19 cents/kwh	LS-3 cents/kwh	AG cents/kwh	E-20 T cents/kwh	E-20 P cents/kwh	E-20 S cents/kwh
<b>Charges</b>										
PCIA - updated <sup>[1]</sup>	2.868	2.206	2.206	2.320	1.960	0.340	2.339	1.584	1.757	1.837
Renewable Integration	-	-	-	-	-	-	-	-	-	-
Marketing & Administration	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253
Resource Adequacy - updated <sup>[1]</sup>	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268
CAISO Charges	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074
WREGIS Fees	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
<b>Subtotal</b>	<b>4.464</b>	<b>3.802</b>	<b>3.802</b>	<b>3.916</b>	<b>3.556</b>	<b>1.936</b>	<b>3.935</b>	<b>3.180</b>	<b>3.353</b>	<b>3.433</b>
<b>Credits</b>										
Class Average Generation Rate - updated <sup>[2]</sup>	9.287	9.524	9.524	9.674	8.905	7.555	7.723	7.482	8.137	8.467
<u>Solar Value Adjustment</u>										
TOD - updated <sup>[3]</sup>	0.214	0.438	0.438	0.257	0.474	0.561	0.325	0.417	0.404	0.439
RA	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238
Other	-	-	-	-	-	-	-	-	-	-
<b>Sub Total</b>	<b>9.739</b>	<b>10.200</b>	<b>10.200</b>	<b>10.169</b>	<b>9.617</b>	<b>8.354</b>	<b>8.286</b>	<b>8.137</b>	<b>8.779</b>	<b>9.144</b>
<b>2017 Premium (cents/kwh)</b>	<b>(5.275)</b>	<b>(6.398)</b>	<b>(6.398)</b>	<b>(6.253)</b>	<b>(6.061)</b>	<b>(6.418)</b>	<b>(4.351)</b>	<b>(4.957)</b>	<b>(5.426)</b>	<b>(5.711)</b>

ff&u = 0.011885

**PROGRAM CHARGE**

GT Illustrative Table (cent/kWh)	E-1	A1	A-6	A-10	E-19	LS-3	AG	E-20 T	E-20 P	E-20 S
RIC, RA, CA ISO, WREGIS	1.343	1.343	1.343	1.343	1.343	1.343	1.343	1.343	1.343	1.343
SVA (TOD and RA Credit)	(0.452)	(0.676)	(0.676)	(0.495)	(0.712)	(0.799)	(0.563)	(0.655)	(0.642)	(0.677)
Program Charges - Gen Related	0.891	0.667	0.667	0.848	0.631	0.544	0.780	0.688	0.701	0.666
Market and Admin.	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253
PCIA	2.868	2.206	2.206	2.320	1.960	0.340	2.339	1.584	1.757	1.837
<b>Total Program Charges</b>	<b>4.012</b>	<b>3.126</b>	<b>3.126</b>	<b>3.421</b>	<b>2.844</b>	<b>1.137</b>	<b>3.372</b>	<b>2.525</b>	<b>2.711</b>	<b>2.756</b>
<b>Total Program Charges w/o PCIA</b>	<b>1.144</b>	<b>0.920</b>	<b>0.920</b>	<b>1.101</b>	<b>0.884</b>	<b>0.797</b>	<b>1.033</b>	<b>0.941</b>	<b>0.954</b>	<b>0.919</b>
<b>Total Program Charges - rounded w/o PCIA</b>	<b>1.100</b>	<b>0.900</b>	<b>0.900</b>	<b>1.100</b>	<b>0.900</b>	<b>0.800</b>	<b>1.000</b>	<b>0.900</b>	<b>1.000</b>	<b>0.900</b>

[1] The PCIA and Resource Adequacy charge reflect values presented in PG&E's 2017 June ERRRA Forecast Application. Final updated values for these charges will be presented in PG&E's November ERRRA Forecast Update and consolidated with other rate changes through the Annual Electric True-up (AET) process, which will be filed as a supplement to Advice Letter 4902-E in December.

[2] The class average generation rate will be updated, consistent with the final generation rates implemented through the AET process, Advice Letter 4902-E.

[3] The actual solar value adjustment (SVA) for the TOD and the RA credit will be based on the actual ECR resource. The SVA TOD and SVA RA values presented in the E-ECR table above are illustrative only and are based on dedicated GTSR Program resources and the interim pool of resources used to support GTSR Program. The values are included to provide an approximation for the expected 2017 credit value for the ECR option. Actual SVA TOD and SVA RA credits will be based on actual ECR projects.

						Values												Total	Average Cost (\$/MWh)	Average Cost with ff&u (\$/MWh)	Total Cost to Serve (\$)	weighted Average Solar Rate (\$/MWh)
LogNumber	ERRA Label	Name	Contract Begin	Contract End	Technology	Total Procurement Costs (\$)																
						1/1/2017	2/1/2017	3/1/2017	4/1/2017	5/1/2017	6/1/2017	7/1/2017	8/1/2017	9/1/2017	10/1/2017	11/1/2017	12/1/2017					
33R382		Bakersfield 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV																	
33R386		San Joaquin 1B FIT (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV																	
33R388		Bakersfield Industrial 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV																	
33R389		Delano Land 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV																	
33R390		Manteca Land 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV																	
33R391		Merced 1 Solar Project (GTSR Project)	8/1/2017	7/31/2037	SOLAR PV																	
33R392		RE Tranquility 8 Amarillo (GTSR Project)	12/31/2017	12/30/2037	SOLAR PV																	
33R396		54KR (GTSR Project)	9/1/2017	8/31/2037	SOLAR PV																	
Grand Total																						

Year 2017

						Values												Total		
LogNumber	ERRA Label	Name	Contract Begin	Contract End	Technology	Sum of MWhr														
						1/1/2017	2/1/2017	3/1/2017	4/1/2017	5/1/2017	6/1/2017	7/1/2017	8/1/2017	9/1/2017	10/1/2017	11/1/2017	12/1/2017			
33R382		Bakersfield 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV															
33R386		San Joaquin 1B FIT (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV															
33R388		Bakersfield Industrial 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV															
33R389		Delano Land 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV															
33R390		Manteca Land 1 (GTSR Project)	8/31/2017	8/30/2037	SOLAR PV															
33R391		Merced 1 Solar Project (GTSR Project)	8/1/2017	7/31/2037	SOLAR PV															
33R392		RE Tranquility 8 Amarillo (GTSR Project)	12/31/2017	12/30/2037	SOLAR PV															
33R396		54KR (GTSR Project)	9/1/2017	8/31/2037	SOLAR PV															
Grand Total																				

Load Forecas (MWh)	35,854		
Interim Resou/MWh			
True-up Entry			
<b>Total</b>	<b>35,854</b>	<b>\$ 2,824,903</b>	<b>\$ 78.79</b>

Incremental MWh	MWh total (annual)	MWh / Month (Average)	Month
13,699	22,155	1,846	1/1/2017
35,854	35,854	2,988	6/1/2017
	71,708	5,976	12/1/2017



Year	(All)														Forecast Values			
															Costs			
LogNumber	ERRA Label	Name	Contract Begin	Contract End	Technology	2016	1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016	6/1/2016	7/1/2016	8/1/2016	9/1/2016	10/1/2016	11/1/2016	12/1/2016
33R171AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Terzian	6/17/2014	6/16/2034	SOLAR PV													
33R177AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Christensen	2/7/2014	2/6/2034	SOLAR PV													
33R184AB	Renewable Portfolio Standard-Eligible Contracts	Bear Creek Solar Project	2/5/2014	2/4/2034	SOLAR PV													
33R190AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Cotton	3/3/2014	3/2/2034	SOLAR PV													
33R195AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Jardine	3/3/2014	3/2/2034	SOLAR PV													
33R198AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Buzzelle	3/6/2014	3/5/2034	SOLAR PV													
33R201AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Harris	12/2/2014	12/1/2034	SOLAR PV													
33R202AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Scherz	3/3/2014	3/2/2034	SOLAR PV													
33R204AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Hill	2/20/2014	2/19/2034	SOLAR PV													
33R232AB	Renewable Portfolio Standard-Eligible Contracts	Kellfeman Solar	3/14/2014	3/13/2034	SOLAR PV													
33R233AB	Renewable Portfolio Standard-Eligible Contracts	Wintner Solar	3/6/2014	3/5/2034	SOLAR PV													
33R267	Renewable Portfolio Standard-Eligible Contracts	RE Kent South - PV PPA 2	12/29/2014	2/18/2035	SOLAR PV													
33R272	Renewable Portfolio Standard-Eligible Contracts	Algonquin SKIC 20 Solar - PV 2	4/14/2015	5/14/2035	SOLAR PV													
33R280	Renewable Portfolio Standard-Eligible Contracts	Corcoran Irigation District Solar PV Project (Corcoran) - RAM 2	1/20/2015	3/19/2035	SOLAR PV													
33R281AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Hollister Project	4/17/2015	4/16/2035	SOLAR PV													
33R282AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Merced Solar Project	5/12/2015	5/11/2035	SOLAR PV													
33R285AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Mission Solar	5/23/2015	5/22/2035	SOLAR PV													
33R288	Renewable Portfolio Standard-Eligible Contracts	RE Old River One LLC - RAM 3	12/30/2014	2/8/2035	SOLAR PV													
33R315AB	Renewable Portfolio Standard-Eligible Contracts	Bakersfield III	7/28/2015	7/27/2035	SOLAR PV													
Grand Total																		

															Forecast Values			
															Sum of MWh			
LogNumber	ERRA Label	Name	Contract Begin	Contract End	Technology	2016	1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016	6/1/2016	7/1/2016	8/1/2016	9/1/2016	10/1/2016	11/1/2016	12/1/2016
33R171AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Terzian	6/17/2014	6/16/2034	SOLAR PV	2,203	108	195	195	233	202	247	331	214	179	149	92	57
33R177AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Christensen	2/7/2014	2/6/2034	SOLAR PV	2,053	83	171	183	206	249	283	324	171	143	119	74	46
33R184AB	Renewable Portfolio Standard-Eligible Contracts	Bear Creek Solar Project	2/5/2014	2/4/2034	SOLAR PV	3,272	131	260	305	381	417	444	497	365	221	178	104	68
33R190AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Cotton	3/3/2014	3/2/2034	SOLAR PV	1,934	58	146	136	238	250	257	312	172	141	109	65	55
33R195AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Jardine	3/3/2014	3/2/2034	SOLAR PV	2,207	121	205	219	246	263	279	294	162	140	121	85	73
33R198AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Buzzelle	3/6/2014	3/5/2034	SOLAR PV	1,357	37	77	90	132	145	159	174	172	140	109	65	55
33R201AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Harris	12/2/2014	12/1/2034	SOLAR PV	1,560	78	9	-	-	62	334	387	223	185	142	83	58
33R202AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Scherz	3/3/2014	3/2/2034	SOLAR PV	1,062	47	84	100	117	135	140	148	81	70	60	42	36
33R204AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Hill	2/20/2014	2/19/2034	SOLAR PV	826	24	45	42	60	70	70	81	121	105	91	64	54
33R232AB	Renewable Portfolio Standard-Eligible Contracts	Kellfeman Solar	3/14/2014	3/13/2034	SOLAR PV	2,080	83	172	207	266	174	299	321	177	147	119	70	45
33R233AB	Renewable Portfolio Standard-Eligible Contracts	Wintner Solar	3/6/2014	3/5/2034	SOLAR PV	3,581	157	313	355	404	467	499	517	343	210	181	127	109
33R267	Renewable Portfolio Standard-Eligible Contracts	RE Kent South - PV PPA 2	12/29/2014	2/18/2035	SOLAR PV	53,702	1,807	3,576	4,638	4,139	6,150	6,612	6,716	6,112	5,201	4,226	2,675	1,857
33R272	Renewable Portfolio Standard-Eligible Contracts	Algonquin SKIC 20 Solar - PV 2	4/14/2015	5/14/2035	SOLAR PV	48,599	1,578	2,374	3,910	3,910	5,309	5,447	6,181	5,972	5,025	4,133	2,780	1,980
33R280	Renewable Portfolio Standard-Eligible Contracts	Corcoran Irigation District Solar PV Project (Corcoran) - RAM 2	1/20/2015	3/19/2035	SOLAR PV	52,868	1,731	3,469	4,758	5,450	6,270	6,714	6,784	5,480	4,442	3,760	2,361	1,648
33R281AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Hollister Project	4/17/2015	4/16/2035	SOLAR PV	3,269	160	263	302	348	390	478	447	231	207	186	138	119
33R282AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Merced Solar Project	5/12/2015	5/11/2035	SOLAR PV	3,284	143	279	305	392	428	450	446	274	227	176	102	63
33R285AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Mission Solar	5/23/2015	5/22/2035	SOLAR PV	3,250	155	256	337	372	385	471	431	274	227	176	102	63
33R288	Renewable Portfolio Standard-Eligible Contracts	RE Old River One LLC - RAM 3	12/30/2014	2/8/2035	SOLAR PV	53,140	1,794	3,411	4,541	4,810	5,803	6,399	6,343	6,077	5,134	4,034	2,732	2,128
33R315AB	Renewable Portfolio Standard-Eligible Contracts	Bakersfield III	7/28/2015	7/27/2035	SOLAR PV	3,061	136	248	304	325	399	416	441	238	200	165	111	79
Grand Total						245,342	8,428	15,542	20,928	22,029	26,032	28,375	28,375	26,610	22,348	18,234	11,870	8,594

LogNumber	ERRA Label	Name	Contract Begin	Contract End	Technology	2016	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
33R171AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Terzian	6/17/2014	6/16/2034	SOLAR PV													
33R177AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Christensen	2/7/2014	2/6/2034	SOLAR PV													
33R184AB	Renewable Portfolio Standard-Eligible Contracts	Bear Creek Solar Project	2/5/2014	2/4/2034	SOLAR PV													
33R190AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Cotton	3/3/2014	3/2/2034	SOLAR PV													
33R195AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Jardine	3/3/2014	3/2/2034	SOLAR PV													
33R198AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Buzzelle	3/6/2014	3/5/2034	SOLAR PV													
33R201AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Harris	12/1/2014	12/1/2034	SOLAR PV													
33R202AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Scherz	3/3/2014	3/2/2034	SOLAR PV													
33R204AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Hill	2/20/2014	2/19/2034	SOLAR PV													
33R232AB	Renewable Portfolio Standard-Eligible Contracts	Kellfeman Solar	3/14/2014	3/13/2034	SOLAR PV													
33R233AB	Renewable Portfolio Standard-Eligible Contracts	Winter Solar	3/6/2014	3/5/2034	SOLAR PV													
33R267	Renewable Portfolio Standard-Eligible Contracts	RE Kent South - PV PPA 2	12/29/2014	2/18/2035	SOLAR PV													
33R272	Renewable Portfolio Standard-Eligible Contracts	Algonquin SKIC 20 Solar - PV 2	4/14/2015	5/14/2035	SOLAR PV													
33R280	Renewable Portfolio Standard-Eligible Contracts	Corcoran Irrigation District Solar PV Project (Corcoran) - RAM 2	1/20/2015	3/19/2035	SOLAR PV													
33R281AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Hollister Project	4/17/2015	4/16/2035	SOLAR PV													
33R282AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Merced Solar Project	5/12/2015	5/11/2035	SOLAR PV													
33R285AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Mission Solar	5/23/2015	5/22/2035	SOLAR PV													
33R288	Renewable Portfolio Standard-Eligible Contracts	RE Old River One LLC - RAM 3	12/30/2014	2/8/2035	SOLAR PV													
33R315AB	Renewable Portfolio Standard-Eligible Contracts	Bakersfield III	7/28/2015	7/27/2035	SOLAR PV													
Grand Total																		
Actuals and Forecast					(w/fttu @ 0.011885)													
					2016 Rate	\$	95.50											
					True-up \$/MWh													
					2016 Load													
					True-up Entry													

Sum of \$ BUY								
Row Labels	CONTRACT NAME	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Grand Total
33R171AB	PRISTINE SUN TERZIAN							
33R177AB	2102 CHRISTENSEN PRISTINE SUN							
33R184AB	BEAR CREEK SOLAR LLC							
33R190AB	2096 COTTON PRISTINE SUN LLC							
33R195AB	2056 JARDINE PRISTINE SUN LLC							
33R198AB	2094 BUZZELLE PRISTINE SUN LLC							
33R201AB	2127 HARRIS PRISTINE SUN LLC							
33R202AB	PRISTINE SUN SCHERZ							
33R204AB	2103 HILL PRISTINE SUN LLC							
33R232AB	ECOS ENERGY LLC KETTLEMAN SOLAR PROJECT							
33R233AB	VINTNER SOLAR PROJECT							
33R267	KENT SOUTH - PV 2							
33R272	ALGONQUIN SKIC 20 SOLAR, LLC							
33R280	CID SOLAR, LLC							
33R281AB	HOLLISTER SOLAR ECOS ENERGY							
33R282AB	MERCED SOLAR ECOS ENERGY							
33R285AB	MISSION SOLAR ECOS ENERGY							
33R288	OLD RIVER ONE LLC - RAM 3							
33R315AB	BAKERSFIELD 111 LLC							
<b>Grand Total</b>								

Sum of MWH									
Row Labels	CONTRACT NAME	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Grand Total
33R171AB	PRISTINE SUN TERZIAN	108	195	195	233	202	247	331	1,512
33R177AB	2102 CHRISTENSEN PRISTINE SUN	83	171	183	206	249	283	324	1,500
33R184AB	BEAR CREEK SOLAR LLC	131	260	305	381	417	444	497	2,435
33R190AB	2096 COTTON PRISTINE SUN LLC	58	140	136	238	250	257	312	1,391
33R195AB	2056 JARDINE PRISTINE SUN LLC	121	205	219	246	263	279	294	1,627
33R198AB	2094 BUZZELLE PRISTINE SUN LLC	37	77	90	132	145	159	174	815
33R201AB	2127 HARRIS PRISTINE SUN LLC	78	9	-	-	62	334	387	870
33R202AB	PRISTINE SUN SCHERZ	47	84	100	117	135	140	148	772
33R204AB	2103 HILL PRISTINE SUN LLC	24	45	42	60	70	70	81	391
33R232AB	ECOS ENERGY LLC KETTLEMAN SOLAR PROJECT	83	172	207	266	174	299	321	1,522
33R233AB	VINTNER SOLAR PROJECT	157	313	355	404	467	499	517	2,711
33R267	KENT SOUTH - PV 2	1,807	3,570	4,638	4,139	6,150	6,612	6,716	33,632
33R272	ALGONQUIN SKIC 20 SOLAR, LLC	1,578	2,374	3,910	3,910	5,309	5,447	6,181	28,708
33R280	CID SOLAR, LLC	1,731	3,469	4,758	5,450	6,270	6,714	6,784	35,176
33R281AB	HOLLISTER SOLAR ECOS ENERGY	160	263	302	348	390	478	447	2,388
33R282AB	MERCED SOLAR ECOS ENERGY	143	279	305	392	428	450	446	2,442
33R285AB	MISSION SOLAR ECOS ENERGY	155	256	337	372	385	471	431	2,407
33R288	OLD RIVER ONE LLC - RAM 3	1,794	3,411	4,541	4,810	5,803	6,399	6,343	33,102
33R315AB	BAKERSFIELD 111 LLC	136	248	304	325	399	416	441	2,268
<b>Grand Total</b>		<b>8,428</b>	<b>15,542</b>	<b>20,928</b>	<b>22,029</b>	<b>27,571</b>	<b>29,998</b>	<b>31,175</b>	<b>155,670</b>

Average Cost per MWh		Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Grand Total
Row Labels	CONTRACT NAME								
33R171AB	PRISTINE SUN TERZIAN								
33R177AB	2102 CHRISTENSEN PRISTINE SUN								
33R184AB	BEAR CREEK SOLAR LLC								
33R190AB	2096 COTTON PRISTINE SUN LLC								
33R195AB	2056 JARDINE PRISTINE SUN LLC								
33R198AB	2094 BUZZELLE PRISTINE SUN LLC								
33R201AB	2127 HARRIS PRISTINE SUN LLC								
33R202AB	PRISTINE SUN SCHERZ								
33R204AB	2103 HILL PRISTINE SUN LLC								
33R232AB	ECOS ENERGY LLC KETTLEMAN SOLAR PROJECT								
33R233AB	VINTNER SOLAR PROJECT								
33R267	KENT SOUTH - PV 2								
33R272	ALGONQUIN SKIC 20 SOLAR, LLC								
33R280	CID SOLAR, LLC								
33R281AB	HOLLISTER SOLAR ECOS ENERGY								
33R282AB	MERCED SOLAR ECOS ENERGY								
33R285AB	MISSION SOLAR ECOS ENERGY								
33R288	OLD RIVER ONE LLC - RAM 3								
33R315AB	BAKERSFIELD 111 LLC								
<b>Grand Total</b>									



**Grid Management Charge - 2017 GTSR Rate**

Description	CAISO GMC Charge	
	3-year Average of Actuals (2013 - 2017)	
ISO Grid Magement Charges	\$ 55,222,074	3-year average (2013 - 2015)
Bundled Load (MWh)	75,276,964	
Average Rate (\$/MWh)	\$ 0.730	
Average Rate (\$/kWh)	\$ 0.00073	

Bundled Load		Grid Management Charge	
	(1)	(2)	(3) = (2) / (1)
	Page 300 (MWh)	Page 397 (\$)	
<b>2013</b>			
Retail	86,813,165		
Sales for Resale	1,509,748		
DA/CCA	10,423,165		
<b>Bunded (Retail less DA)</b>	<b>76,390,000</b>	<b>\$ 55,939,656</b>	<b>0.73</b>
<b>2014</b>			
Retail	86,603,766		
Sales for Resale	1,585,919		
DA/CCA	11,392,295		
<b>Bunded (Retail less DA)</b>	<b>75,211,471</b>	<b>\$ 54,318,878</b>	<b>0.72</b>
<b>2015</b>			
Retail	86,167,420		
Sales for Resale	1,813,603		
DA/CCA	11,938,000		
<b>Bunded (Retail less DA)</b>	<b>74,229,420</b>	<b>\$ 55,407,687</b>	<b>0.75</b>

Advice Letter 4933-E

Green Tariff Shared Renewables

WREGIS fees and ARB/VRE Administration

WREGIS fees source: <http://www.wecc.biz/WREGIS/Documents/WREGIS%20Fee%20Matrix%20and%20Definitions.pdf>

Annual account holder fee	\$1,500
REC transfer fee	\$0.005 per MWh
REC retirement fee	\$0.010 per MWh

Total MWh/year	22,155	71,708	373,524	417,468	439,440
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Assumptions:

Years 1 and 2: RECs may be transferred from RPS account, incurring the \$0.005/MWh transfer fee in addition to \$0.01/MWh retirement fee

Years 3 and beyond:

\$0.01/MWh retirement fee

	2015	2016	2017	2018	2019	Total	Average Cost & Average Enrollment per Year	
REC fees	\$332	\$1,076	\$3,735	\$4,175	\$4,394			
Account fee	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500			
	\$1,832	\$2,576	\$5,235	\$5,675	\$5,894	\$21,212	\$4,242.45	
Expected Subscription (MWh)	175,776	307,608	373,524	417,468	439,440	1,713,816	342,763	
Fee (\$/MWh)	\$0.010	\$0.008	\$0.014	\$0.014	\$0.013	\$0.012	\$0.012	Fee (\$/MWh)
							\$0.001	Fee (cents/kWh)
Nominal labor hours (tbd) to facilitate ARB/VRE retirement of offsets.							\$0.00001	

COST ESTIMATES

Line No.	ESTIMATED INTERNAL ADMIN COSTS	2015	Jan - July 2016	Aug - Dec 2016	2017
		Year 0	Year 1	Year 1	Year 2
1	Program Management	\$ 529,511	\$ 370,025	\$ 141,801	\$ 321,044
2	Outreach	\$ 238,766	\$ 359,306	\$ 304,003	\$ 864,045
3	ECR Outreach		\$ 105,221	\$ 140,377	\$ 465,255
4	Contact Center Operations	\$ 16,419	\$ 23,824	\$ 15,000	\$ 100,000
5	IT/Billing System	\$ 1,347,643	\$ 301,191		\$ 1,650,000
6	Energy Procurement	\$ 111,740.00	\$ 43,807.00	\$ 50,000	\$ 142,584
Total Internal Admin		\$ 2,005,313	\$ 738,847	\$ 206,801	\$ 2,213,628
Total Internal GT Marketing		\$ 238,766	\$ 359,306	\$ 304,003	\$ 864,045
Total Internal ECR Marketing		\$ -	\$ 105,221	\$ 140,377	\$ 465,255
Grand Total		\$ 2,244,079	\$ 1,203,374	\$ 651,181	\$ 3,542,928

TOTAL ADMIN AND MARKETING COST PER KWh ESTIMATE		
<b>Rate Analysis</b>		
<b>GT and ECR Admin</b>		<i>A&amp;M Allocation</i>
	kWh over 20 years:	<b>5,555,488,000</b>
	Admin cost over 20 years	10,406,597
	Admin cost per kWh	\$ 0.00187
	w/ ff&u	\$ 0.00189
<b>GT Marketing</b>		
	Total GT kWh over 20 Years	<b>709,456,000</b>
	Total GT Marketing cost over 20 years	2,883,706
	Marketing cost per kWh	\$ 0.00406
	w/ ff&u	\$ 0.00411
<b>ECR Marketing</b>		
	Total ECR kWh over 20 Years	<b>4,846,032,000</b>
	Total ECR Marketing cost over 20 years	\$ 3,043,721
	Marketing cost per kWh	\$ 0.00063
	w/ ff&u	\$ 0.00064
<b>Program Total</b>		
	Total kWh over 20 years:	<b>5,555,488,000</b>
	Total Admin & Marketing cost over 20 years:	\$ 16,334,024
<b>Total Administration and Marketing, by Program</b>		
Green Tariff	GT A&M	\$ 0.00600
Enhanced Community Renewables	ECR A&M	\$ 0.00253

2017

Solar Value Adjustment by Class	TOD Ratio	Class Average Generation Rate <sup>[1]</sup> (\$/kWh)	TOD Solar Value Adjustment (\$/kWh)*	TOD Solar Value Adjustment (cents/kWh)*
Residential	1.023	0.09287	0.00214	0.21400
Small Light and Power	1.046	0.09524	0.00438	0.43800
Medium Light & Power	1.027	0.09524	0.00257	0.25700
Large Commercial	1.049	0.09674	0.00474	0.47400
Streetlights	1.063	0.08905	0.00561	0.56100
Agriculture	1.043	0.07555	0.00325	0.32500
Industrial - T	1.054	0.07723	0.00417	0.41700
Industrial - P	1.054	0.07482	0.00404	0.40400
Industrial - S	1.054	0.08137	0.00439	0.43900

[1] based on Annual Electric True-up Advice Letter 4902-E-A, preliminary rates effective January 1, 2017; includes FF&U

TABLE 9-3, in part  
PACIFIC GAS AND ELECTRIC COMPANY  
2017 ERRR Forecast, Table 9-3 excerpt for TBCC Capacity Adder

Line No.		2017 Portfolio TBCC Adders	
1	Capacity Adder	TBCC \$	12.53
	FF&U = 0.011885	TBCC w/ff&u \$	12.68

**Attachment C**

**Confidential Declaration & Matrix**

**DECLARATION OF DONNA L. BARRY IN SUPPORT OF  
ADVICE 4933-E**

**PG&E'S 2017 GREEN TARIFF SHARED RENEWABLES PROGRAM RATES**

I, Donna L. Barry, declare:

1. I am presently employed by Pacific Gas and Electric Company (PG&E) and am a Regulatory Principal in the revenue requirements section, in the General Rate Case and Regulatory Operations Department at Pacific Gas and Electric Company (PG&E). In this position, I am responsible for the developing and sponsoring a variety cost recovery proposals in rate cases and associated compliance reporting requirements at PG&E. In carrying out these responsibilities, I have acquired knowledge of the transactions types purchased for PG&E's electric portfolio and I am familiar the generation costs that are included in the Green Tariff Shared Renewables (GTSR) program rates. This declaration is based on my personal knowledge of PG&E's practices and my understanding of the Commission's decisions protecting the confidentiality of market-sensitive information.
2. Based on my knowledge and experience, and in accordance with Decisions 06-06-066, 08-04-023, and relevant Commission rules, I make this declaration seeking confidential treatment for the data provided in Appendix B.
3. Attached to this declaration is a matrix identifying the data and information for which PG&E is seeking confidential treatment. The matrix specifies that the material PG&E is seeking to protect constitutes confidential market sensitive data and information covered by Decision 06-06-066, Appendix 1 and General Order 66-C. The matrix also specifies why confidential protection is justified. Further, the data and information: (1) is not already public; and (2) cannot be aggregated, redacted, summarized or otherwise protected in a way that allows partial disclosure. By reference, I am incorporating into

this declaration all of the explanatory text that is pertinent to my testimony in the attached matrix.

I declare under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct. Executed on October 7, 2016, at San Francisco, California.

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DONNA L. BARRY



**PACIFIC GAS AND ELECTRIC COMPANY (U 39 E)**

**ADVICE LETTER 4933-E  
2017 GREEN TARIFF SHARED RENEWABLES PROGRAM RATES  
OCTOBER 7, 2016**

**IDENTIFICATION OF CONFIDENTIAL INFORMATION**

<b>Redaction Reference</b>	<b>Category from D.06-06-066, Appendix 1, or Separate Confidentiality Order That Data Corresponds To</b>	<b>Justification for Confidential Treatment</b>	<b>Length of Time Data To Be Kept Confidential</b>
<b>Document: Attachment B</b>			
<b>TAB: 2017 Solar Value Generation</b>	II.B.4 – Cost Forecast Data – Electric; Non-QF bilateral contracts  IV.F – Production Forecast of Post-1/1/2003 contracts	Confidential. Public by resource category (e.g. fossil, wind, solar, hydro-electric, etc.) after three years.  Confidential forecast of capacity rating and/or expected output for individual contracts. Aggregated annual capacity and energy data from all post-1/1/2003 contracts public.	Three years.  Three years.
<b>TAB: 2017 Interim Pool</b>	II.B.4 – Cost Forecast Data – Electric; Non-QF bilateral contracts	Confidential. Public by resource category (e.g. fossil, wind, solar, hydro-electric, etc.) after three years.	Three years.

**PACIFIC GAS AND ELECTRIC COMPANY (U 39 E)**

**ADVICE LETTER 4933-E  
2017 GREEN TARIFF SHARED RENEWABLES PROGRAM RATES  
OCTOBER 7, 2016**

**IDENTIFICATION OF CONFIDENTIAL INFORMATION**

<b>Redaction Reference</b>	<b>Category from D.06-06-066, Appendix 1, or Separate Confidentiality Order That Data Corresponds To</b>	<b>Justification for Confidential Treatment</b>	<b>Length of Time Data To Be Kept Confidential</b>
TAB: 2016 Interim Pool True-up	XI. Monthly Procurement Costs Energy Resource Recovery Account Filings	Recorded cost and generation data for individual contracts is market sensitive.	Three Years
	II.B.4 – Cost Forecast Data – Electric; Non-QF bilateral contracts	Confidential forecast of capacity rating and/or expected output for individual contracts. Aggregated annual capacity and energy data from all post-1/1/2003 contracts public.	Three years.
TAB: 2016 Interim Pool – Actuals YTD	XI. Monthly Procurement Costs Energy Resource Recovery Account Filings	Recorded cost and generation data for individual contracts is market sensitive.	Three years

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

AT&T	Division of Ratepayer Advocates	OnGrid Solar
Albion Power Company	Don Pickett & Associates, Inc.	Pacific Gas and Electric Company
Alcantar & Kahl LLP	Douglass & Liddell	Praxair
Anderson & Poole	Downey & Brand	Regulatory & Cogeneration Service, Inc.
Atlas ReFuel	Ellison Schneider & Harris LLP	SCD Energy Solutions
BART	Evaluation + Strategy for Social Innovation	SCE
Barkovich & Yap, Inc.	G. A. Krause & Assoc.	SDG&E and SoCalGas
Bartle Wells Associates	GenOn Energy Inc.	SPURR
Braun Blaising McLaughlin & Smith, P.C.	GenOn Energy, Inc.	San Francisco Water Power and Sewer
Braun Blaising McLaughlin, P.C.	Goodin, MacBride, Squeri, Schlotz & Ritchie	Seattle City Light
CENERGY POWER	Green Charge Networks	Sempra Energy (Social Gas)
CPUC	Green Power Institute	Sempra Utilities
California Cotton Ginners & Growers Assn	Hanna & Morton	SoCalGas
California Energy Commission	International Power Technology	Southern California Edison Company
California Public Utilities Commission	Intestate Gas Services, Inc.	Spark Energy
California State Association of Counties	Kelly Group	Sun Light & Power
Calpine	Ken Bohn Consulting	Sunshine Design
Casner, Steve	Leviton Manufacturing Co., Inc.	Tecogen, Inc.
Center for Biological Diversity	Linde	TerraVerde Renewable Partners
City of Palo Alto	Los Angeles County Integrated Waste Management Task Force	TerraVerde Renewable Partners, LLC
City of San Jose	Los Angeles Dept of Water & Power	Tiger Natural Gas, Inc.
Clean Power	MRW & Associates	TransCanada
Clean Power Research	Manatt Phelps Phillips	Troutman Sanders LLP
Coast Economic Consulting	Marin Energy Authority	Utility Cost Management
Commercial Energy	McKenna Long & Aldridge LLP	Utility Power Solutions
Cool Earth Solar, Inc.	McKenzie & Associates	Utility Specialists
County of Tehama - Department of Public Works	Modesto Irrigation District	Verizon
Crossborder Energy	Morgan Stanley	Water and Energy Consulting
Crown Road Energy, LLC	NLine Energy, Inc.	Wellhead Electric Company
Davis Wright Tremaine LLP	NRG Solar	Western Manufactured Housing Communities Association (WMA)
Day Carter Murphy	Nexant, Inc.	YEP Energy
Defense Energy Support Center	ORA	
Dept of General Services	Office of Ratepayer Advocates	