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,

Edward Randolph

Director, Energy Division

Edward Randoft



Erik JacobsonDirector
Regulatory Relations

Pacific Gas and Electric Company 77 Beale St., Mail Code B10C P.O. Box 770000 San Francisco, CA 94177

Fax: 415-973-1448

October 7, 2016

Advice 4933-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

<u>Subject:</u> 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 PG&E's Regional Solar Choice Program.¹

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.² 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.

E-GT: http://www.pge.com/nots/rates/tariffs/tm2/pdf/ELEC_SCHEDS_E-GT.pdf; E-ECR: http://www.pge.com/nots/rates/tariffs/tm2/pdf/ELEC_SCHEDS_E-ECR.pdf; PG&E's Green Tariff Shared Renewables Program: GTSR Program

² 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 2017.³

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

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.⁴

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' 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,⁵ 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.

⁴ See PG&E's 2017 Annual Electric True-up Advice Letter, 4902-E and 4902-E-A.

⁵ Decision 15-01-051, Conclusion of Law 59

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

	E-1 cents/kwh	A1 cents/kwh	A-10 cents/kwh	E-19 cents/kwh	AG cents/kwh	E-20 T cents/kwh
Charges	CONTONIO	CONTON	CONTON	CONTON	CONTONNI	CONTON
Solar Generation Price – updated [1]	7.879	7.879	7.879	7.879	7.879	7.879
PCIA – updated [2]	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 [2]	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
Subtotal	12.690	12.028	12.142	11.782	12.161	11.406
Credits						
Class Average Generation Rate – updated [3]	9.287	9.524	9.674	8.905	7.723	7.482
Solar Value Adjustment						
TOD - updated [3]	0.214	0.438	0.257	0.474	0.325	0.417
RA – updated [1, 2]	0.238	0.238	0.238	0.238	0.238	0.238
Other	-	-	-	-	-	-
Subtotal	9.739	10.200	10.169	9.617	8.286	8.137
2017 Premium (cents/kwh)	2.951	1.828	1.973	2.165	3.875	3.269

- 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 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
Charges						
Solar Generation Price	N/A	N/A	N/A	N/A	N/A	N/A
PCIA – updated [1]	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 – updated [1]	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
Subtotal	4.464	3.802	3.916	3.556	3.935	3.180
Credits						
Class Average Generation Rate – updated [2]	9.287	9.524	9.674	8.905	7.723	7.482
Solar Value Adjustment						
TOD – <i>updated</i> [3]	0.214	0.438	0.257	0.474	0.325	0.417
RA – <i>updated</i> ^[3]	0.238	0.238	0.238	0.238	0.238	0.238
Other		-	-	-	-	-
Subtotal	9.739	10.200	10.169	9.617	8.286	8.137
2017 Credit (cents/kwh)	(5.275)	(6.398)	(6.253)	(6.061)	(4.351)	(4.957)

- 1. 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.
- 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, 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 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 C	as and Electric Company (ID U39 E)									
Utility type:	Contact Person: <u>Yvonne Yang</u>									
☑ ELC □ GAS	Phone #: (415) 973-2094									
□ PLC □ HEAT □ WATER	E-mail: QXY1@pge.com and PGETariffs@pge.com									
EXPLANATION OF UTILITY TY										
ELC = Electric GAS = Gas										
PLC = Pipeline HEAT = Heat V	VATER = Water									
Advice Letter (AL) #: <u>4933-E</u>	Tier: <u>2</u>									
Subject of AL: Green Tariff Shared Rene	wables and Enhanced Community Renewables 2017 Rate Proposal									
Keywords (choose from CPUC listing): <u>Cor</u>	npliance, Increase Rates									
AL filing type: $\ensuremath{\square}$ Monthly $\ensuremath{\square}$ Quarterly $\ensuremath{\square}$ Ann	ual One-Time Other Other									
If AL filed in compliance with a Commission or	der, indicate relevant Decision/Resolution #: D.15-01-051									
Does AL replace a withdrawn or rejected AL? I	f 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, very matrix that identifies all of the confidential is	what information is the utility seeking confidential treatment for: Yes. See the attached 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 information: <u>Donna Barry</u> (415) 973 – 5707 of) who will provide the nondisclosure agreement and access to the confidential or DLBf@pge.com									
Resolution Required? ☐ Yes ☑No										
Requested effective date: November 6, 2016	No. of tariff sheets: <u>N/A</u>									
Estimated system annual revenue effect (%): N/A	<u>A</u>									
Estimated system average rate effect (%): N/A										
When rates are affected by AL, include attachmocommercial, large C/I, agricultural, lighting). N/.	ent in AL showing average rate effects on customer classes (residential, small									
Tariff schedules affected: <u>N/A</u>										
Service affected and changes proposed: <u>N/A</u>										
Pending advice letters that revise the same tariff	sheets: <u>N/A</u>									
Protests, dispositions, and all other corresponder	ice regarding this AL are due no later than 20 days after the date of this filing, unless									
otherwise authorized by the Commission, and sh	all be sent to:									
California Public Utilities Commission	Pacific Gas and Electric Company									
Energy Division	Attn: Erik Jacobson									
EDTariffUnit	Director, Regulatory Relations c/o Megan Lawson									
505 Van Ness Ave., 4 th Flr.	77 Beale Street, Mail Code B10C									
San Francisco, CA 94102 E-mail: EDTariffUnit@cpuc.ca.gov	P.O. Box 770000									
L-man. ED 1 ai mom ecpuc.ca.gov	San Francisco, CA 94177 E-mail: PGETariffs@pge.com									

Advice 4933-E October 7, 2016

Attachment A

Pro Forma Tariffs

Cancelling R

Revised Revised Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

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	# 0.0000	(\$0.07555) (1)	40.00707 (I)	Φ0.000.40 (I)	
	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)	(A.1)
	2017 Vintage Agriculture and	\$0.00000	(\$0.07555)	\$0.00797	\$0.00340	(N)
	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 (1)	\$0.02339 (1)	(N)
	Schedule E-20 T	ψ0.00000	(ψ0.07723)	ψ0.01033	ψ0.02000	(14)
	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	ψο.σσσσσ	(\$0.01.10=)	ψοισσσ	Ψοιστοστ	(14)
	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.

(T) (T)

(Continued)

Advice Letter No: Decision No.

4933-E 15-01-051 Issued by **Steven Malnight**Senior Vice President
Regulatory Affairs

^{**} 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.

Cancelling

Revised Revised Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

ELECTRIC SCHEDULE E-GTGREEN 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	Generation	Program	PCIA	
Residential	Charge	Credit	Charge**		
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 (IX) \$0.07879	(\$0.09287)	\$0.01491	\$0.02868 \$0.02868	(A.I)
Schedule A-1*	ψ0.07079	(ψ0.09201)	ψ0.01491	ψ0.02000	(N)
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)	\$0.02207 (I) \$0.02206 (I)	
2017 Vintage	\$0.07879	(\$0.09524)	\$0.01267	\$0.02206	(N)
Schedule A-10	ψ0.01013	(ψ0.0302+)	ψ0.01207	ψ0.02200	(14)
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	***************************************	(+0.000)	¥ 3 1 2 1 1 2 1	*****	(,
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)	(NI)
2017 Vintage Schedule E-20 T	\$0.07879	(\$0.07723)	\$0.01380	\$0.02339	(N)
2015 Vintage	Φ0 07070 (D)	(<u>(</u> (0, 07400) (I)	ΦΩ Ω4ΩΩΩ (I)	ΦΩ Ω4ΕΩΕ (I)	
2016 Vintage	\$0.07879 (R) \$0.07879 (R)	(\$0.07482) (I) (\$0.07482) (I)	\$0.01288 (I) \$0.01288 (I)	\$0.01585 (I) \$0.01584 (I)	
2017 Vintage	\$0.07879 (K) \$0.07879	(\$0.07482)	\$0.01288	\$0.01584	(N)
Schedule E-20 P	ψ0.07079	(ψ0.07402)	ψ0.01200	φυ.υ1304	(14)
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)
2	Ţ 3.0. U. U	(+3.00.0.)	+ 3.0.00.	Ţ 0.0 · · · 0 ·	(L)

(Continued)

Advice Letter No: Decision No.

4933-E 15-01-051 Issued by **Steven Malnight**Senior Vice President
Regulatory Affairs

-- 2017 Vintage

\$0.07879

RATES:

(Cont'd.)

Original Cancelling

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

\$0.01837

(N)

Sheet 3 **ELECTRIC SCHEDULE E-GT GREEN TARIFF PROGRAM** Schedule E-20 S (L) -- 2015 Vintage \$0.01838 (I) \$0.07879 (R) (\$0.08467) (I) \$0.01266 (I) -- 2016 Vintage \$0.07879 (R) (\$0.08467) (I) \$0.01266 (I) \$0.01837 (I) (L)

\$0.01266

* 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 \$0.00600 which is composed of \$0.00411 per kWh for marketing and (T)(L) \$0.00189 per kWh for administrative costs. (T)(L)

(\$0.08467)

(Continued)

Advice Letter No: Decision No.

4933-E 15-01-051 Issued by
Steven Malnight
Senior Vice President
Regulatory Affairs

Cancelling

Revised Original Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

ELECTRIC SCHEDULE E-GTGREEN TARIFF PROGRAM

Sheet 4

ENROLLMENT PROVISIONS:

Customers may elect to purchase 50% or 100% of their energy usage under this schedule.

(L)

Customers may elect to change their enrollment level once in a 12 month period (e.g. changing from 50% to 100% and vice versa). If the GTSR program cap is reached before January 1, 2019, existing customers may change their enrollment level down only (from 100% to 50%).

The enrollment level for a single service agreement may not exceed the equivalent of 2 MW of load per year. This limitation does not apply to a federal, state, or local government, school or school district, county office of education, the California Community Colleges, the California State University, or the University of California.¹

A single customer cannot elect an enrollment level that results in the equivalent amount of load served under this schedule to exceed 20% of any single calendar year's total available cumulative nameplate rated generating capacity under the GTSR Program.²

45 MW of capacity is reserved for residential customer participation in the GTSR program, and 20 MW is reserved for the City of Davis. PG&E reserves the right to stop offering additional subscriptions under this schedule to non-residential customers if non-residential customer participation in the GTSR program reached the equivalent of 207 MW.

ENROLLMENT TERM:

The customer will be placed on the Green Tariff program option on the first day of the next Billing Cycle where the Billing Cycle start date occurs at least five business days after the date of the customer's request. A customer request that is received within five business days of the customer's next Billing Cycle may result in the customer being placed on the Green Tariff Program in the following Billing Cycle.

There is no minimum service length under this schedule. There is also no termination fee associated with terminating participation in this program. Cancellation of the customer's participation in the Green Tariff Program will become effective as of the customer's last closed bill period. The customer is then ineligible to participate in the Green Tariff Program for a period of 12 months from the date of the change.

¹ PU Code 2833(h)

(Continued)

(L)

² PU Code 2833 (i)

Cancelling

Revised Original Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

ELECTRIC SCHEDULE E-GTGREEN TARIFF PROGRAM

Sheet 5

(L)

ENROLLMENT TERM: (Cont'd.)

Enrollment level changes will apply on the first day of the next Billing Cycle where the Billing Cycle start date occurs at least five business days after the date of the customer's request. A customer request that is received within five business days of the customer's next Billing Cycle may be placed on the Green Tariff Program the following Billing Cycle.

A customer's service under this schedule is considered portable within PG&E's electric service territory. If in transferring service, a customer closes the existing service agreement served under this schedule and opens a new service agreement in another location within PG&E's service territory, the customer will be considered as having continuously received service under this schedule for the purposes of determining the PCIA vintage to apply to the new service agreement.

OTHER PROGRAMS:

GTSR Enhanced Community Renewables program: Customers served under this schedule cannot concurrently participate on schedule E-ECR.

BILLLING:

Monthly bills are calculated in accordance with the customer's OAS and the rates contained herein. The amount billed under the Green Tariff program will appear on the customer's bill as additional charges and credits as described

above.

METERING EQUIPMENT:

All customers must be metered under their OAS.

L (L)

Advice Letter No: Decision No.

4933-E 15-01-051 Issued by **Steven Malnight**Senior Vice President
Regulatory Affairs

Advice 4933-E October 7, 2016

Attachment B 2017 GTSR Program Rate Workpapers

(Redacted Public Version)

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

Charges	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	1
Solar Generation Price - updated [1]	7.879	7.879	7.879	7.879	7.879	7.879	7.879	7.879	7.879	7.879	GTSRBA/ERRA
PCIA - updated [2]	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 [2]	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	
Sub Total	12.690	12.028	12.028	12.142	11.782	10.162	12.161	11.406	11.579	11.659	<u>-</u> .
Credits											
Class Average Generation Rate - updated [3]	9.287	9.524	9.524	9.674	8.905	7.555	7.723	7.482	8.137	8.467	
Solar Value Adjustment											
TOD - updated ^[3]	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	-	-	-	-	-	-	-	-	-	-	
Sub Total	9.739	10.200	10.200	10.169	9.617	8.354	8.286	8.137	8.779	9.144	_
2017 Premium (cents/kwh)	2.951	1.828	1.828	1.973	2.165	1.808	3.875	3.269	2.800	2.515	
ff&u = 0.011885											<u>-</u> '
PROGRAM CHARGE											1
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		GTSRBA/ERRA
Market and Admin.	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
T 1 1 Day was Observed	4.250	2.472	2.472	27/0	2 101	1 101	2.710	2.072	2.050	2 102	ı
Total Program Charges	4.359	3.473	3.473	3.768	3.191	1.484	3.719	2.872	3.058	3.103	
Total Program Charges w/o PCIA	1.491	1.267	1.267	1.448	1.231	1.144	1.380	1.288	1.301	1.266	
Total Program Charges - rounded w/o PCIA	1.500	1.300	1.300	1.400	1.200	1.100	1.400	1.300	1.300	1.300	

^[1] Expanded Interim Pool List

Advice Letter 4933-E

^[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 Foreast pdate 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
Charges	Cents/kwii	Celits/kwii	Cents/kwii	Cents/kwn	Cents/kwii	Cents/kwn	Cents/kwn	Cents/kwn	Cents/kwn	CEHIS/KWH
Charges										
PCIA - updated [1]	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						
Resource Adequacy - updated [1]	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 Subtotal	0.001 4.464	0.001 3.802	0.001 3.802	0.001 3.916	0.001 3.556	0.001 1.936	0.001 3.935	0.001 3.180	0.001 3.353	0.001 3.433
Credits										
Class Average Generation Rate - updated [2]	9.287	9.524	9.524	9.674	8.905	7.555	7.723	7.482	8.137	8.467
Solar Value Adjustment										
TOD - updated ^[3]	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	-	-	-	-	-	-	-	-	-	-
Sub Total	9.739	10.200	10.200	10.169	9.617	8.354	8.286	8.137	8.779	9.144
2017 Premium (cents/kwh)	(5.275)	(6.398)	(6.398)	(6.253)	(6.061)	(6.418)	(4.351)	(4.957)	(5.426)	(5.711)
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
Total Program Charges	4.012	3.126	3.126	3.421	2.844	1.137	3.372	2.525	2.711	2.756
Total Program Charges w/o PCIA	1.144	0.920	0.920	1.101	0.884	0.797	1.033	0.941	0.954	0.919
Total Program Charges - rounded w/o PCIA	1.100	0.900	0.900	1.100	0.900	0.800	1.000	0.900	1.000	0.900

^[1] 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 Novemer ERRA Forecast Update and consoidated 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.

Advice Letter 4933-E

						Values																	
						Total Prod	curement C	osts (\$)											Total	Cost	Average Cost with ff&u	Serve	weignted Average Solar Rate
LogNumber	ERRA Label	Name	Contract Begin	Contract End	Technology		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		(\$/MWh)	(\$/MWh)	(\$s)	(\$/MWh)
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															
						Sum of MV	Vhr												Total		
	ERRA Label		Contract Begin				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	TUIdi		
33R382		Bakersfield 1 (GTSR Project)	8/31/2017		SOLAR PV																
33R386		San Joaquin 1B FIT (GTSR Project)	8/31/2017		SOLAR PV																
33R388		Bakersfield Industrial 1 (GTSR Project)	8/31/2017		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		SOLAR PV																
33R396		54KR (GTSR Project)	9/1/2017	8/31/2037	SOLAR PV																
Grand Total																					

Load Torcoas (mmn)	33,034		

Interim Resol MW

True-up Entry

Total 35,854 \$ 2,824,903 \$ 78.79

Log Number	Project Name	Contract Type	Technology Type	County	Contract Status	Online Date	Capacity (MW)	Contract Price (\$/MWh)	2017 Generation (MWh)	
33R184AB	Bear Creek Solar Project	AB1969/FiT	Solar PV	San Joaquin	Online	2/5/2014	1.5		2,081	
33R177AB	Pristine Sun Christensen	AB1969/FiT	Solar PV	Fresno	Online	2/7/2014	1.0		1,387	
33R204AB	Pristine Sun Hill	AB1969/FiT	Solar PV	San Luis Obispo	Online	2/20/2014	0.8		1,040	
33R190AB	Pristine Sun Cotton	AB1969/FiT	Solar PV	Butte	Online	3/3/2014	1.0		1,387	
33R195AB	Pristine Sun Jardine	AB1969/FiT	Solar PV	San Luis Obispo	Online	3/3/2014	1.0		1,387	
33R202AB	Pristine Sun Scherz	AB1969/FiT	Solar PV	San Luis Obispo	Online	3/3/2014	0.5		693	
33R198AB	Pristine Sun Buzzelle	AB1969/FiT	Solar PV	Butte	Online	3/6/2014	1.0		1,386	
33R233AB	Vintner Solar Project	AB1969/FiT	Solar PV	San Luis Obispo	Online	3/6/2014	1.5		2,080	
33R232AB	Kettleman Solar Project	AB1969/FiT	Solar PV	San Joaquin	Online	3/14/2014	1.0		1,387	
33R171AB	Pristine Sun Terzian	AB1969/FiT	Solar PV	Fresno	Online	6/17/2014	1.3		1,731	
33R201AB	Pristine Sun Harris	AB1969/FiT	Solar PV	Sutter	Online	12/2/2014	1.3		1,726	
33R267	Kent South - PV 2	PV RFO	Solar PV	Kings	Online	12/29/2014	20.0		49,594	
33R288	RE Old River One - RAM 3	RAM	Solar PV	Kern	Online	12/30/2014	20.0		53,625	
33R280	Corcoran Solar LLC - RAM 2	RAM	Solar PV	Kings	Online	1/20/2015	19.8		51,498	
33R272	Algonquin SKIC 20 Solar	PV RFO	Solar PV	Kern	Online	4/14/2015	20.0		48,888	
33R281AB	Ecos Energy - Hollister Project	AB1969/FiT	Solar PV	San Benito	Online	4/17/2015	1.5		2,089	
33R282AB	Ecos Energy - Merced Solar Project	AB1969/FiT	Solar PV	Merced	Online	5/12/2015	1.5		2,089	
33R285AB	Ecos Energy - Mission Solar	AB1969/FiT	Solar PV	Merced	Online	5/23/2015	1.5		2,089	
33R315AB	Bakersfield 111	AB1969/FiT	Solar PV	Kern	Online	7/28/2015	1.4		1,947	
33R295AB	Fresno Cogeneration - Fresno Solar South	AB1969/FiT	Solar PV	Fresno	Online	10/20/2015	1.5		2,083	
33R296AB	Fresno Cogeneration - Fresno Solar West	AB1969/FiT	Solar PV	Fresno	Online	10/20/2015	1.5		2,083	
33R278	Columbia Solar Energy, LLC - RAM 2	RAM	Solar PV	Contra Costa	Online	10/21/2015	19.0		42,095	
33R300AB	Greenlight - Sirius Solar Project	AB1969/FiT	Solar PV	Merced	Online	10/22/2015	1.0		2,083	
33R292	Morelos Del Sol - RAM 3	RAM	Solar PV	Kern	Online	12/2/2015	15.0		34,841	
33R324	Woodmere Solar Farm - RAM 4	RAM	Solar PV	Kern	Online	12/23/2015	15.0		34,566	
33R307AB	imMODO- Lemoore 1	AB1969/FiT	Solar PV	Kings	Online	2/1/2016	1.5		2,102	
33R304AB	GreenLight- Peacock Solar Project	AB1969/FiT	Solar PV	Tulare	Online	2/3/2016	1.0		1,402	
33R318AB	Pristine Sun- 2192 Ramirez	AB1969/FiT	Solar PV	Tehama	Online	2/11/2016	0.5		1,221	
33R350RM	2184 Gruber (SB32)	Re-MAT/FiT	Solar PV	Glenn	Online	3/23/2016	1.5		3,571	
33R302AB	Greenlight - Castor Solar Project	AB1969/FiT	Solar PV	Kern	Online	4/7/2016	1.5		3,474	
33R353RM	2105 Hart (Pristine Sun)	Re-MAT/FiT	Solar PV	Corning	In Development	6/27/2016	0.5		1,042	
33R380RM	Oak Leaf Solar X (SB32)	AB1969/FiT	Solar PV	Kings	In Development	12/16/2016	3.0		7,766	
33R374	CED Corcoran Solar 3, LLC (1) (PV 3 RFO)	PV RFO	Solar PV	Kings	In Development	12/1/2016	20.0		51,590	
33R375	Westside Solar, LLC (1) (PV 3 RFO)	PV RFO	Solar PV	Fresno	In Development	12/31/2016	20.0		57,888	
									475,913	

2017 Total Net Qualifying Capacity (MW)	Capacity Value (\$/kW-year)	Capacity Value (\$)	Capacity Value (\$/MWh)
	\$ 58.27		\$ 2.3818

Year	(Alf)																	
	11	1											Fo	recast Values				
													Co	sts				
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	6/16/203	4 SOLAR PV													
33R177AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Christensen	2/7/2014	2/6/203	4 SOLAR PV													
33R184AB	Renewable Portfolio Standard-Eligible Contracts	Bear Creek Solar Project	2/5/2014	2/4/203	4 SOLAR PV													
33R190AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Cotton	3/3/2014	3/2/203	4 SOLAR PV													
33R195AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Jardine	3/3/2014	3/2/203	4 SOLAR PV													
33R198AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Buzzelle	3/6/2014	3/5/203	4 SOLAR PV													
33R201AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Harris	12/2/2014	12/1/203	4 SOLAR PV													
33R202AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Scherz	3/3/2014	3/2/203	4 SOLAR PV													
33R204AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Hill	2/20/2014	2/19/203	4 SOLAR PV													
33R232AB	Renewable Portfolio Standard-Eligible Contracts	Kettleman Solar	3/14/2014	3/13/203	4 SOLAR PV													
33R233AB	Renewable Portfolio Standard-Eligible Contracts	Vintner Solar	3/6/2014	3/5/203	4 SOLAR PV													
33R267	Renewable Portfolio Standard-Eligible Contracts	RE Kent South - PV PPA 2	12/29/2014	2/18/203	SOLAR PV													
33R272	Renewable Portfolio Standard-Eligible Contracts	Algonquin SKIC 20 Solar - PV 2	4/14/2015	5/14/203	SOLAR PV													
33R280	Renewable Portfolio Standard-Eligible Contracts	Corcoran Irrigation District Solar PV Project (Corcoran) - RAM 2	1/20/2015	3/19/203	SOLAR PV													
33R281AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Hollister Project	4/17/2015	4/16/203	SOLAR PV													
33R282AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Merced Solar Project	5/12/2015	5/11/203	SOLAR PV													
33R285AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Mission Solar	5/23/2015	5/22/203	SOLAR PV													
	Renewable Portfolio Standard-Eligible Contracts	RE Old River One LLC - RAM 3	12/30/2014	2/8/203	5 SOLAR PV													
33R288																		
33R288 33R315AB	Renewable Portfolio Standard-Eligible Contracts	Bakersfield III	7/28/2015	7/27/203	_													
					_													
33R315AB					_													
33R315AB					_								Fo	xecast Values				
33R315AB					_								_	recast Values m of MWhr				
33R315AB					_	2016	1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016	6/1/2016	_	m of MWhr 8/1/2016	9/1/2016	10/1/2016	11/1/2016	12/1/2016
33R315AB Grand Total	Renewable Portfolio Standard-Eligible Contracts	Bakersfield III	7/28/2015	7/27/203	SOLAR PV Technology	2016 2,203	1/1/2016	2/1/2016 195	3/1/2016 195	4/1/2016 233	5/1/2016	6/1/2016	Sur	m of MWhr 8/1/2016 214	9/1/2016 179	149	11/1/2016	12/1/2016 57
33R315AB Grand Total	Renewable Portfolio Standard Eligible Contracts ERRA Label	Bakersfield III	7/28/2015 Contract Begin	7/27/203	Technology SOLAR PV	2,203 2,053	108 83	195 171		233 206			7/1/2016 331 324	8/1/2016 214 171	179 143	149 119	11/1/2016 92 74	12/1/2016 57 46
33R315AB Grand Total LogNumber 33R171AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Sahersfield II Name Prisine Sun Terrian	7/28/2018 Contract Begin 6/17/2014	7/27/203 Contract End 6/16/203	Technology 4 SOLAR PV 4 SOLAR PV	2,203	108	195	195	233	202	247	7/1/2016 331	8/1/2016 214 171 265	179 143 221	149 119 178	11/1/2016 92 74 104	12/1/2016 57 46 68
33R315AB Grand Total LogNumber 33R171AB 33R177AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts Renewable Portfolio Standard-Eligible Contracts	Sakersfield II Name Prisine Sun Terzian Prisine Sun Christensen	7/28/2015 Contract Begin 6/17/2014 2/7/2014	7/27/203 Contract End 6/16/203 2/6/203	Technology SOLAR PV Technology SOLAR PV SOLAR PV SOLAR PV SOLAR PV	2,203 2,053	108 83	195 171	195 183	233 206	202 249	247 283	7/1/2016 331 324	8/1/2016 214 171	179 143	149 119	92 74	12/1/2016 57 46 68 55
33R315AB Grand Total LogNumber 33R171AB 33R177AB 33R184AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts Renewable Portfolio Standard-Eligible Contracts Renewable Portfolio Standard-Eligible Contracts Renewable Portfolio Standard-Eligible Contracts	Salversfield III Name Pristine Sun Terzian Pristine Sun Orbidensen Bear Creek Sula Project	7/28/2015 Contract Begin 6/17/2014 2/7/2014	7/27/203 Contract End 6/16/203 2/6/203 2/4/203	Technology SOLAR PV Technology SOLAR PV SOLAR PV SOLAR PV SOLAR PV SOLAR PV SOLAR PV	2,203 2,053 3,272 1,934 2,207	108 83 131 58 121	195 171 260 140 205	195 183 305	233 206 381 238 246	202 249 417 250 263	247 283 444	7/1/2016 331 324 497 312 294	8/1/2016 214 171 265 172	179 143 221 141 140	149 119 178 109 121	92 74 104	57 46 68
Sarand Total LogNumber 33R171AB 33R177AB 33R184AB 33R190AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Sahersfield III Name Prisine Sun Terrian Prisine Sun Terrian Prisine Sun Christensen Bear Creek Scher Project Prisine Sun Cotton	7/28/2015 Contract Begin 6/17/2014 2/1/2014 2/5/2014	7/27/203 Contract End 6/16/203 2/4/203 3/2/203	Technology 4 SOLAR PV 5 SOLAR PV 6 SOLAR PV 7 SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357	108 83 131 58 121 37	195 171 260 140	195 183 305 136	233 206 381 238	202 249 417 250	247 283 444 257	7/1/2016 331 324 497 312 294 174	8/1/2016 214 171 265 172 162	179 143 221 141 140	149 119 178 109 121	92 74 104	57 46 68 55 73 55
33R315AB Grand Total LogNumber 33R171AB 33R177AB 33R184AB 33R190AB 33R195AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Sakersfield III Name Pristine Sun Terztan Pristine Sun Christensen Bear Cresk Solar Popict Pristine Sun Christensen Pristine Sun Colton Pristine Sun Goton Pristine Sun Jardine	7/28/2015 Contract Begin 6/17/2014 2/7/2014 2/5/2014 3/3/2014	7/27/203 Contract End 6/16/203 2/6/203 3/2/203 3/2/203	Technology 4 SOLAR PV 4 SOLAR PV 4 SOLAR PV 4 SOLAR PV 5 SOLAR PV 6 SOLAR PV 6 SOLAR PV 6 SOLAR PV 6 SOLAR PV 7 SOLAR PV	2,203 2,053 3,272 1,934 2,207	108 83 131 58 121	195 171 260 140 205	195 183 305 136 219	233 206 381 238 246	202 249 417 250 263	247 283 444 257 279	7/1/2016 331 324 497 312 294	8/1/2016 214 171 265 172	179 143 221 141 140	149 119 178 109 121	92 74 104	57 46 68 55 73
33R315AB Grand Total LogNumber 33R171AB 33R177AB 33R184AB 33R190AB 33R195AB 33R198AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Salversfield III Name Pristine Sun Terzian Pristine Sun Chotestesen Bear Creek Soar Poped Pristine Sun Colton Pristine Sun Deline Pristine Sun Buzzelle Pristine Sun Buzzelle	Contract Begin 6/17/2014 2/1/2014 2/5/2014 3/3/2014 3/3/2014 3/3/2014	7/27/203 Contract End 6/16/203 2/6/203 2/4/203 3/2/203 3/5/203	Technology 4 SOLAR PV 4 SOLAR PV 5 SOLAR PV 6 SOLAR PV 7 SOLAR PV 7 SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357	108 83 131 58 121 37	195 171 260 140 205 77	195 183 305 136 219	233 206 381 238 246	202 249 417 250 263 145	247 283 444 257 279 159	7/1/2016 331 324 497 312 294 174	8/1/2016 214 171 265 172 162	179 143 221 141 140	149 119 178 109 121	92 74 104 65 85 65	57 46 68 55 73 55
33R315AB Grand Total LogNumber 33R171AB 33R177AB 33R19AB 33R190AB 33R195AB 33R198AB 33R201AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Sahersfield III Name Prisine Sun Terrian Prisine Sun Terrian Prisine Sun Christersen Bear Creek Scher Project Prisine Sun Cotten Prisine Sun Lardine Prisine Sun Jardine Prisine Sun Harris	7/28/2015 Contract Begin 6/17/2014 2/17/2014 2/2014 3/3/2014 3/3/2014 3/3/2014 12/2/2014	77271203 Contract End 6/16/203 2/6/203 3/2/203 3/2/203 3/5/203 1/2/1203	Technology Technology SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357	108 83 131 58 121 37	195 171 260 140 205 77	195 183 305 136 219 90	233 206 381 238 246 132	202 249 417 250 263 145 62	247 283 444 257 279 159 334	331 324 497 312 294 174 387	m of MWhr 8/1/2016 214 171 265 172 162 172 223	179 143 221 141 140 140 185	149 119 178 109 121 109 142	92 74 104 65 85 65 83	57 46 68 55 73 55
33R315AB Grand Total LogNumber 33R171AB 33R174AB 33R194AB 33R196AB 33R196AB 33R204AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Sakersfield III Name Pristine Sun Terdan Pristine Sun Terdan Pristine Sun Christinenen Bear Creek Sdar Project Pristine Sun Orbot Onton Pristine Sun Jardine Pristine Sun Buzzelle Pristine Sun Scherz Pristine Sun Scherz	7728/2015 Contract Begin 6/17/2014 2/17/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014	77271203 Contract End 6/16/203 2/6/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203	Technology Technology SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560	108 83 131 58 121 37 78 47	195 171 260 140 205 77 9	195 183 305 136 219 90 -	233 206 381 238 246 132 -	202 249 417 250 263 145 62	247 283 444 257 279 159 334	331 324 497 312 294 174 387 148	m of MWhr 8/1/2016 214 171 265 172 162 172 223 81	179 143 221 141 140 140 185 70	149 119 178 109 121 109 142 60	92 74 104 65 85 65 83 42	57 46 68 55 73 55 58
33R315AB Grand Total LogNumber 33R171AB 33R174AB 33R194AB 33R196AB 33R196AB 33R204AB 33R204AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Name Prisine sun Terzian Prisine Sun Christensen Beer Creek Soder Plogted Prisine Sun Christensen Beer Creek Soder Plogted Prisine Sun Cotton Prisine Sun Jedine Prisine Sun Buzzelle Prisine Sun Sherz Prisine Sun Sherz Prisine Sun Sherz	Contract Begin 6/17/2011 27/22011 27/22011 38/2014 38/2014 38/2014 38/2014 38/2014 38/2014	7/27/203 Contract End 6/16/203 2/4/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203	Technology Technology SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062	108 83 131 58 121 37 78 47	195 171 260 140 205 77 9 84	195 183 305 136 219 90 - 100 42	233 206 381 238 246 132 - 117 60	202 249 417 250 263 145 62 135	247 283 444 257 279 159 334 140	7/1/2016 331 324 497 312 294 174 387 148 81	m of MWhr 8/1/2016 214 171 265 172 162 172 223 81 121	179 143 221 141 140 140 185 70 105	149 119 178 109 121 109 142 60	92 74 104 65 85 65 83 42	57 46 68 55 73 55 58
33R315AB Grand Total LogNumber 33R171AB 33R197AB 33R196AB 33R196AB 33R196AB 33R200AB 33R204AB 33R204AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Salversfield III Name Prisine Sun Terzian Prisine Sun Christerson Prisine Sun Christerson Bear Creek Sodie Project Prisine Sun Cotton Prisine Sun Extrem Prisine Sun Extrem Prisine Sun Barrine Prisine Sun Harris Prisine Sun Harris Prisine Sun Hill Kuttleman Solar	7728/2015 Contract Begin 6/17/2014 2/17/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014	77271703 Contract End 6/16/203 2/M/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203 3/2/203	Technology Technology SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062 826 2,080	108 83 131 58 121 37 78 47 24	195 171 260 140 205 77 9 84 45	195 183 305 136 219 90 - 100 42 207	233 206 381 238 246 132 - 117 60 266	202 249 417 250 263 145 62 135 70	247 283 444 257 279 159 334 140 70	7/1/2016 331 324 497 312 294 174 387 148 81 321	m of MWhr 8/1/2016 214 171 265 172 162 172 223 81 121	179 143 221 141 140 140 185 70 105	149 119 178 109 121 109 142 60 91	92 74 104 65 85 65 83 42 64	57 46 68 55 73 55 58 36 54
33R315AB Grand Total LogNumber 33R171AB 33R177AB 33R19AB 33R19AB 33R200AB 33R201AB 33R201AB 33R202AB 33R202AB 33R203AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Sakersfield III Name Pristine Sun Terztan Pristine Sun Terztan Pristine Sun Christersen Seor Creek Schar Project Pristine Sun Juritine Pristine Sun Juritine Pristine Sun Juritine Pristine Sun Buzzelle Pristine Sun Harris Pristine Sun Scherz Pristine Sun Scherz Pristine Sun Scherz Viritiner Solar	Contract Begin 6/17/2014 27/2014 27/2014 38/2014 38/2014 38/2014 27/2014 38/2014 38/2014 38/2014 38/2014 38/2014 38/2014 38/2014	77271203 Contract End 6/16/203 2/8/203 3/2/203	Technology Technology Technology Solar PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062 826 2,080 3,581	108 83 131 58 121 37 78 47 24 83	195 171 260 140 205 77 9 84 45 172 313	195 183 305 136 219 90 - 100 42 207 355	233 206 381 238 246 132 - 117 60 266 404	202 249 417 250 263 145 62 135 70 174	247 283 444 257 279 159 334 140 70 299	331 324 497 312 294 174 387 148 81 321 517	m of MWhr 8/1/2016 214 171 265 172 162 172 223 81 121 177 243	179 143 221 141 140 140 140 185 70 105	149 119 178 109 121 109 142 60 91 119	92 74 104 65 85 65 83 42 64 70	57 46 68 55 73 55 58 36 54 45
33R315AB Grand Total LogNumber 33R171AB 33R171AB 33R190AB 33R190AB 33R190AB 33R204AB 33R204AB 33R204AB 33R204AB 33R204AB 33R204AB 33R204AB 33R204AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Salversfield III Name Pristine Sun Terzien Pristine Sun Christensen Bear Creek Soler Project Pristine Sun Cotten Pristine Sun Cotten Pristine Sun Cotten Pristine Sun Jardine Pristine Sun Jardine Pristine Sun Jardine Pristine Sun Salverse Pristine Sun Starte Pristin	Contract Begin 6/17/2014 27/2014 27/2014 38/2014 38/2014 38/2014 38/2014 38/2014 38/2014 38/2014 38/2014 38/2014	7/27/203 Contract End 6/16/203 2/8/203 3/2/203	Technology Technology SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062 826 2,080 3,581 53,702	108 83 131 58 121 37 78 47 24 83 157	195 171 260 140 205 77 9 84 45 172 313	195 183 305 136 219 90 - 100 42 207 355 4,638	233 206 381 238 246 132 - 117 60 266 404 4,139	202 249 417 250 263 145 62 135 70 174 467 6.150	247 283 444 257 279 159 334 140 70 299 499	331 324 497 312 294 174 387 148 81 321 517 6,716	m of MWir 8/1/2016 214 171 265 172 162 172 223 81 121 177 243 6,112	179 143 221 141 140 140 185 70 105 147 210 5,201	149 119 178 109 121 109 142 60 91 119 181 4,226	92 74 104 65 85 65 83 42 64 70 127 2,675	57 46 68 55 73 55 58 36 54 45 109
33R315AB Grand Total LogNumber 33R177AB 33R177AB 33R174AB 33R195AB 33R195AB 33R202AB 33R202AB 33R202AB 33R202AB 33R202AB 33R202AB 33R202AB 33R202AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Salversfield III Name Pristine Sun Terzian Pristine Sun Christerson Pristine Sun Christerson Bear Creek Scale Project Pristine Sun Cotton Pristine Sun Lardine Pristine Sun Bazzelle Pristine Sun Bazzelle Pristine Sun Harris Pristine Sun Harris Pristine Sun Harris Pristine Sun Hill Kettleman Solar Viriner Solar Ex Kent Souln - PV PPA 2 Algenquin SNC 20 Solar - PV 2	7728/2015 Contract Begin 4/17/2014 2/17/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 3/3/2014 4/3/2015 4/4/2015	77271703 Contract End 6/16/203 2/M/203 3/2/20	Technology Technology Technology Solar PV Technology Solar PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062 8,26 2,080 3,581 53,702 48,599	108 83 131 58 121 37 78 47 24 83 157 1,807	195 171 260 140 205 77 9 84 45 172 313 3,570 2,374	195 183 305 136 219 90	233 206 381 238 246 132 - 117 60 266 404 4,139 3,910	202 249 417 250 263 145 62 135 70 174 467 6,150 5,309	247 283 444 257 279 159 334 140 70 299 499 6,612 5,447	7/1/2016 331 324 497 312 294 174 387 148 81 321 517 6,716 6,181	m of MWhr 8/1/2016 214 171 265 162 172 223 81 121 121 433 6,112 5,972	179 143 221 141 140 140 185 70 105 147 210 5,201 5,025	149 119 178 109 121 109 142 60 91 119 181 4,226 4,133	92 74 104 65 85 65 83 42 64 70 127 2,675 2,780	57 46 68 55 73 55 58 36 54 45 109 1,857
33R315AB Grand Total LogNumber 33R171AB 33R174AB 33R194AB 33R196AB 33R196AB 33R201AB 33R202AB 33R23AB 33R23AB 33R23AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts Renewable Portfolio Standard-Eligible Contracts	Name Prisite Sun Terzian Prisite Sun Terzian Prisite Sun Terzian Prisite Sun Christessen dear Creek Solar Project Prisite Sun Cotton Prisite Sun Sun Aufme Prisite Sun Buzzeite Prisite Sun Buzzeite Prisite Sun Buzzeite Prisite Sun Buzzeite Prisite Sun Halfe Kellteman Solar Vintner Solar RE Kent Soun - PV PPA 2 Agnopain SIGO 25 Solar - PV 2 Corcoran Irrigation District Solar PV 2 Corcoran Irrigation District Solar PV Project (Corcoran) - RAM 2	7728/2015 Contract Begin 6/17/2014 2/7/2014 3/3/2014	77271203 Contract End 6/16/203 2/46/203 3/2/203	5 SOLAR PV Technology 4 SOLAR PV 5 SOLAR PV 6 SOLAR PV 6 SOLAR PV 7 SOLAR PV 8 SOLAR PV 8 SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062 8,26 2,080 3,581 53,702 48,599 52,868	108 83 131 58 121 37 78 47 24 83 157 1,807 1,578	195 171 260 140 205 77 9 84 45 172 313 3,570 2,374 3,469	195 183 305 136 219 90	233 206 381 238 246 132 - 117 60 266 404 4,139 3,910 5,450	202 249 417 250 263 145 62 135 70 174 467 6.150 5.309 6.270	247 283 444 257 279 159 334 140 70 299 499 6.612 5.447 6,714	7/1/2016 331 324 497 312 294 174 387 148 81 321 517 6.716 6.181	m of WWw 8/1/2016 214 171 172 162 172 162 172 283 81 121 177 243 6.1112 5.972	179 143 221 141 140 140 185 70 105 147 210 5,201 5,025	149 119 118 109 121 109 142 60 91 119 181 4,226 4,133 3,760	92 74 104 65 85 65 83 42 70 127 2,675 2,780	57 46 68 55 73 55 58 36 45 109 1,857 1,980
33R315AB Grand Total LogNumber 33R17/AB 33R17/AB 33R19/AB 33R196AB 33R196AB 33R20AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Salversfield III Name Prisine Sun Terzien Prisine Sun Terzien Prisine Sun Christereen Bear Creek Soler Project Prisine Sun Sun Cotten Prisine Sun Jardine Prisine Sun Jardine Prisine Sun Jardine Prisine Sun Jardine Prisine Sun Sterzele Prisine Sun Sterzele Prisine Sun Sterzele Prisine Sun Sterzele Prisine Sun Sterzel Prisine Sun Hall Kellterans Soler Victors	77882015 Contract Begin 6177201 277201 382010 3820	7/27/203 Confract End 6/16/203 2/6/203 3/2/20	Technology Technology SOLAR PV Technology SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062 826 2,080 3,581 53,702 48,599 52,868 3,269	108 83 131 58 121 37 78 47 24 83 157 1,807 1,578 1,731	195 171 260 140 205 77 9 84 45 172 313 3,570 2,374 3,469	195 183 305 136 219 90 100 42 207 355 4,638 3,910 4,758 302	233 206 381 238 246 132 - 117 60 266 404 4,139 3,910 5,450	202 249 417 250 263 145 62 135 70 174 467 6.150 5.309 6.270	247 283 444 257 279 159 334 140 70 299 499 6,612 5,447 6,714	Sul Sul	m of MWhr 8/1/2016 214 171 265 172 162 172 223 81 121 177 243 6.112 5,480 231	179 143 221 141 140 140 185 70 105 147 210 5,201 5,025 4,442 207	149 119 1178 109 121 109 142 60 91 119 181 4,226 4,133 3,760 186	92 74 104 65 85 65 65 83 42 64 70 127 2,875 2,780 2,361 138	57 46 68 55 73 55 58 36 54 45 109 1,890 1,648
33R315AB Grand Total LogNumber 33R171AB 33R174AB 33R194AB 33R196AB 33R196AB 33R204AB 33R204AB 33R204AB 33R204AB 33R224AB 33R224AB 33R224AB 33R224AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Renewable Portfolio Standard-Eligible Contracts	Salversfield III Name Prisine Sun Terzian Prisine Sun Terzian Prisine Sun Christerson Bear Creek Sodie Project Prisine Sun Extra Prisine Prisine Sun Extra Prisine Prisine Sun Extra Prisine Prisine Sun Harris Prisine Sun Harris Prisine Sun Harris Prisine Sun Harris Prisine Sun Hill Autternan Solar Virtner Solar Extent Souln - PV PPA 2 Algernquin SNC 20 Solar - PV 2 Cancroan Ingalism Dishird Solar PV Preject (Corcoran) - RAM 2 Ecos Energy - Marcod Solar Project Ecos Energy - Marcod Solar Project	7728/2015 7728/2015 7728/2015 7728/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015 7729/2015	77271003 77271003 77271003 77271003 77271003 77271003 7727003	Technology Tec	2,203 2,053 3,272 1,934 2,207 1,357 1,560 2,080 3,581 53,702 48,599 52,868 3,269	108 83 131 131 58 121 137 78 47 24 83 31 157 1,807 1,78 1,731 1600	195 171 260 140 205 77 9 84 45 172 313 3,570 2,374 3,469 263 279	195 183 305 136 219 90	233 206 381 238 246 132 - - 117 60 266 404 4,139 3,910 5,450	202 249 417 250 263 145 62 135 70 174 467 6.150 5.309 6.270 300 428	247 283 444 257 279 159 334 140 70 299 499 6.612 5.471 478	7/1/2016 331 324 497 3312 294 1774 387 148 81 321 517 6,716 6,181 6,784 447 446	m of WWhr 8/1/2016 214 1771 1771 1762 162 162 223 81 121 121 243 6,112 5,972 5,480 234	179 143 221 141 140 140 185 70 105 147 210 5,201 5,025 4,442 207 227	149 119 178 109 121 109 142 60 91 119 181 4,226 4,133 3,260 186 176	92 74 104 65 85 65 65 83 42 64 70 127 2,675 2,785 2,281 138	57 46 68 68 55 55 58 36 45 109 1,857 1,980 1,648 119 63
33R315AB Grand Total LogNumber 33R17IAB 33R17AB 33R19AB 33R19AB 33R19AB 33R20AB 33R20AB 33R20AB 33R20AB 33R23AB 33R23AB 33R23AB 33R23AB 33R23AB 33R23AB	Renewable Portfolio Standard-Eligible Contracts ERRA Label Ronovosible Portfolio Standard-Eligible Contracts	Name Prisine Sun Terzian Prisine Sun Terzian Prisine Sun Crisin Boar Creek Solar Project Prisine Sun Buzzolie Prisine Sun Buzzolie Prisine Sun Buzzolie Prisine Sun Buzzolie Prisine Sun Harris Prisine Sun Farris Prisine Sun	7/28/2011 Contract Begin 617/2011 27/2014 38/2014 38/2014 38/2014 22/2014 31/4/2011 22/2014 31/4/2011 22/2014 41/4/2015 41/4/2015 51/2015	7/27/203 Contract End 6/16/203 2/4/203 3/2/203	5 SOLAR PV Technology 4 SOLAR PV 5 SOLAR PV	2,203 2,053 3,272 1,934 2,207 1,357 1,560 1,062 2,080 3,581 53,702 48,599 52,868 3,269 3,284 3,250	108 83 131 58 121 37, 78 47, 78 24 83, 157 1,578 1,207 1,578	195 171 260 140 205 77 9 84 45 172 313 3.570 2.374 3.469 263 279 256	195 183 305 134 219 90 100 42 207 355 4,538 3,910 4,738 302 305 337	233 206 381 238 246 132 - 117 60 266 404 4.139 3.910 5.450 348 992 372	202 249 417 250 263 145 62 135 70 174 467 6.150 5.309 6.270 390 428	247 233 444 444 257 279 159 334 140 70 299 499 499 6.612 5.447 6.714 478 450	331 324 407 312 294 1148 81 321 517 6,716 6,181 6,784 447 447 443 37	m of NWhr 81/2016 2114 171 172 265 172 1622 273 81 121 177 243 641 274 274	179 143 221 141 140 140 140 158 70 105 147 210 5,005 4,442 207 227	149 119 119 1109 121 109 121 109 142 60 91 119 181 422 4,133 3,760 186 176	92 74 104 65 85 65 83 42 64 70 0 127 2,675 2,780 2,361 138	57 46 68 55 73 55 58 36 54 45 109 1,857 1,980 1,648 1,648

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-Eliqible Contracts	Pristine Sun Terzian	6/17/20			2016	Jail-16	rep-10	Md1-10	Арі-10	IMay-10	Juli-16	Jul-16	Aug-10	3ep-10	OLI-16	1004-10	Dec-10
	*																	
33R177AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Christensen	2/7/20															
33R184AB	Renewable Portfolio Standard-Eligible Contracts	Bear Creek Solar Project	2/5/20	14 2/4/2034	SOLAR PV													
33R190AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Cotton	3/3/20	14 3/2/2034	SOLAR PV													
33R195AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Jardine	3/3/20	14 3/2/2034	SOLAR PV													
33R198AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Buzzelle	3/6/20	14 3/5/2034	SOLAR PV													
33R201AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Harris	12/2/20	14 12/1/2034	SOLAR PV													
33R202AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Scherz	3/3/20	14 3/2/2034	SOLAR PV													
33R204AB	Renewable Portfolio Standard-Eligible Contracts	Pristine Sun Hill	2/20/20	14 2/19/2034	SOLAR PV													
33R232AB	Renewable Portfolio Standard-Eligible Contracts	Kettleman Solar	3/14/20	14 3/13/2034	SOLAR PV													
33R233AB	Renewable Portfolio Standard-Eligible Contracts	Vintner Solar	3/6/20	14 3/5/2034	SOLAR PV													
33R267	Renewable Portfolio Standard-Eligible Contracts	RE Kent South - PV PPA 2	12/29/20	14 2/18/2035	SOLAR PV													
33R272	Renewable Portfolio Standard-Eligible Contracts	Algonquin SKIC 20 Solar - PV 2	4/14/20	15 5/14/2035	SOLAR PV													
33R280	Renewable Portfolio Standard-Eligible Contracts	Corcoran Irrigation District Solar PV Project (Corcoran) - RAM 2	1/20/20	15 3/19/2035	SOLAR PV													
33R281AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Hollister Project	4/17/20	15 4/16/2035	SOLAR PV													
33R282AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Merced Solar Project	5/12/20	15 5/11/2035	SOLAR PV													
33R285AB	Renewable Portfolio Standard-Eligible Contracts	Ecos Energy - Mission Solar	5/23/20	15 5/22/2035	SOLAR PV													
33R288	Renewable Portfolio Standard-Eligible Contracts	RE Old River One LLC - RAM 3	12/30/20	14 2/8/2035	SOLAR PV													
33R315AB	Renewable Portfolio Standard-Eligible Contracts	Bakersfield III	7/28/20	15 7/27/2035	SOLAR PV													
Grand Total																		

Actuals and Forecast (wfff&u ⊕ 0.011885)
2016 Rate \$ 95.50
True-up SAMWh
2016 Load
True-up Entry

Advice	Letter	4933-E

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							
Grand Total	_							

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

8,428

15,542

20,928

22,029

27,571

29,998

31,175

Grand Total

155,670

Average Cost po	er 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							
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

Grand Total

BAKERSFIELD 111 LLC

Grid Management Charge - 2017 GTSR Rate

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

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

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

373,524

71,708

417,468

439,440

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

Average Cost & Average

Enrollment per 2018 2019 2015 2016 2017 Total Year \$332 **REC** fees \$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 \$4,242.45 175,776 307,608 373,524 417,468 439,440 1,713,816 342,763 Expected Subscription (MWh) Fee (\$/MWh) \$0.010 \$0.008 \$0.014 \$0.014 \$0.013 \$0.012 \$0.012

Nominal labor hours (tbd) to facilitate ARB/VRE retirement of offsets.

\$0.001

\$0.012 Fee (\$/MWh) \$0.001 Fee (cents/kWh)

COST ESTIMATES

		2015	Ja	ın - July 2016	Αι	ug - Dec 2016	2017
Line No.	ESTIMATED INTERNAL ADMIN COSTS	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	FSTIMATE		
Rate Analysis			
GT and ECR Admin		A	&M Allocation
kWh over 20 years:			5,555,488,000
Admin cost over 20 years			10,406,597
Admin cost per kWh		\$	0.00187
w/ ff&u		\$	0.00189
GT Marketing			
Total GT KWh over 20 Years			709,456,000
Total GT Marketing cost over 20 years			2,883,706
Marketing cost per kWh		\$	0.00406
w/ ff&u		\$	0.00411
ECR Marketing			
Total ECR KWh over 20 Years			4,846,032,000
Total ECR Marketing cost over 20 years		\$	3,043,721
Marketing cost per kWh		\$	0.00063
w/ ff&u		\$	0.00064
Program Total			
Total kWh over 20 years:			5,555,488,000
Total Admin & Marketing cost over 20 years:		\$	16,334,024
Total Administration and Marketing, by Prog	ram		
Green Tariff	GT A&M	\$	0.00600
Enhanced Community Renewables	ECR A&M	\$	0.00253

<u>2017</u>

		Class Average	TOD Solar Value	TOD Solar Value
Solar Value Adjustment by Class	TOD Ratio	Generation Rate ^[1]	Adjustment	Adjustment
		(\$/kWh)	(\$/kWh)*	(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 ERRA Forecast, Table 9-3 excerpt for TBCC Capacity Adder

Line No.

Portfolio TBCC Adders

2017

1 Capacity Adder

TBCC \$ 12.53 TBCC w/ff&u \$ 12.68

FF&U = 0.011885

Advice 4933-E October 7, 2016

Attachment C Confidential Declaration & Matrix

<u>DECLARATION OF DONNA L. BARRY IN SUPPORT OF</u> 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.
- 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.



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

Redaction Reference	Category from D.06-06- 066, Appendix 1, or Separate Confidentiality Order That Data Corresponds To	O66, Appendix 1, or parate Confidentiality Order That Data Corresponds To					
Document: A	Attachment B						
TAB: 2017 Solar Value Generation	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.				
TAB: 2017 Interim Pool	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

Redaction Reference	Category from D.06-06- 066, Appendix 1, or Separate Confidentiality Order That Data Corresponds To	Justification for Confidential Treatment	Length of Time Data To Be Kept Confidential
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 Albion Power Company Alcantar & Kahl LLP Anderson & Poole Atlas ReFuel BART

Barkovich & Yap, Inc. Bartle Wells Associates

Braun Blaising McLaughlin & Smith, P.C. Braun Blaising McLaughlin, P.C.

CENERGY POWER

CPUC

California Cotton Ginners & Growers Assn

California Energy Commission California Public Utilities Commission California State Association of Counties

Calpine Casner, Steve

Center for Biological Diversity

City of Palo Alto

City of San Jose Clean Power

Clean Power Research
Coast Economic Consulting
Commercial Energy

Commercial Energy Cool Earth Solar, Inc.

County of Tehama - Department of Public

Works

Crossborder Energy Crown Road Energy, LLC Davis Wright Tremaine LLP

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Defense Energy Support Center

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Ritchie

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OnGrid Solar

Pacific Gas and Electric Company

Praxair

Regulatory & Cogeneration Service, Inc.

SCD Energy Solutions

SCE

SDG&E and SoCalGas

SPURR

San Francisco Water Power and Sewer

Seattle City Light

Sempra Energy (Socal Gas)

Sempra Utilities SoCalGas

Southern California Edison Company

Spark Energy Sun Light & Power Sunshine Design Tecogen, Inc.

TerraVerde Renewable Partners
TerraVerde Renewable Partners. LLC

Tiger Natural Gas, Inc.

TransCanada

Troutman Sanders LLP Utility Cost Management Utility Power Solutions Utility Specialists Verizon

Water and Energy Consulting Wellhead Electric Company Western Manufactured Housing Communities Association (WMA)

YEP Energy