

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE



March 11, 2020

Advice Letter 4137-G/5628-E

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

SUBJECT: Request of Pacific Gas and Electric Company for 2017 and 2018 Energy Efficiency Incentive Award

Dear Mr. Jacobson:

Advice Letter 4137-G/5628-E is effective as of February 27, 2020 per Resolution E-5062 Ordering Paragraphs.

Sincerely,

Handwritten signature of Edward Randolph in cursive.

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

September 3, 2019

Advice 4137-G/5628-E

(Pacific Gas and Electric Company ID U 39 M)

Public Utilities Commission of the State of California

Subject: Request of Pacific Gas and Electric Company for 2017 and 2018 Energy Efficiency Incentive Award

I. Purpose

The purpose of this advice letter is to request approval of Pacific Gas and Electric Company's (PG&E's) Efficiency Savings and Performance Incentive (ESPI) award for the second part of 2017 and first part of 2018 and authorization to include the award in PG&E's energy efficiency (EE) balancing accounts. This advice letter is submitted in accordance with the instructions set forth in Appendix 5 of Decision (D.)15-10-028.¹ A summary of the awards and true-up is provided in Table 1 below.

Table 1 – Award Summary^{2,3}

Component	Request
2017 Ex-Post Savings	\$12,333,969
2018 Ex-Ante Savings	\$1,845,851
2018 Ex-Ante Review Performance	\$5,064,846
2018 Codes & Standards	\$1,868,921
2018 Non-Resource	\$476,235
2017 Ex-Ante Savings True Up	-\$8,267

¹The instructions in the Rolling Portfolio Decision superseded the schedule established in Ordering Paragraph (OP) 4 of Decision (D.) 13-09-023, Decision Adopting Efficiency Savings and Performance Incentive Mechanism.

² The 2018 ESPI Advice Letter included the final balance of the Risk/Reward Incentive Mechanism (RIMM) offset, therefore no further offset is required.

³ The Resource Program portion of the Utility Audit, Finance and Compliance Branch (UAFCB) financial audit is ongoing and expected to be issued after the filing date of this Advice Letter.

2018 Ex-Ante Review Performance True Up	TBD
2018 Codes & Standards True Up	\$15,827
2018 Non-Resource True Up	\$0
2017 Ex-Ante Review Performance True Up	TBD
2017 Codes & Standards True Up	-\$9,196
2017 Non-Resource True Up	\$2,310
2016 Ex-Ante Review Performance True Up	TBD
2016 Codes & Standards True Up	-\$6,631
2016 Non-Resource True Up	-\$2,310
Total Request	\$21,581,555

This advice letter includes two appendices.

- **Appendix A:** Ex-Ante Savings
- **Appendix B:** Program Expenditures

In Appendix A we have included a tab “Pre-2018 Install Corrections” with a set of claims which had incorrect install dates of pre-2018 in our 2018 Annual Report. These claims were in fact installed in 2018 and PG&E will be submitting a correction to our 2018 Annual Report. These claims are included in the Ex-Ante Savings tab of Appendix A with an install date flag of 2018. Because these claims are custom this does not affect the ESPI award requested in this advice letter; these claims are due to be included in the request for the 2020 ESPI awards.

II. Background

In its 2013 Decision Adopting Efficiency Savings and Performance Incentive Mechanism D.13-09-023 (ESPI Decision), the California Public Utilities Commission (Commission or CPUC) approved the ESPI to continue promoting the investor owned utilities’ (IOUs’) achievement of EE goals for program years 2013 and beyond.

The ESPI mechanism includes incentive awards in the following four performance categories:⁴

1. **EE Resource Savings:** measured by a combination of ex-ante “locked down” and ex-post evaluated net lifecycle energy savings measured in MW, GWh and MMTh.

⁴ D.13-09-023, OP3.

2. **Ex-Ante Review Performance:** measured by IOU conformance with ex-ante review requirements.
3. **Codes and Standards Program Management Fees:** based on savings associated with a utility's advocacy for energy savings through appliance and building code changes.
4. **Non-Resource Program Management Fees:** based on the implementation of EE activities and programs that do not directly generate energy savings but provide support to savings-based programs.

The ESPI Decision adopted a process and schedule for the submittal of the incentive awards starting in 2014. The timelines for ESPI review were updated to comply with the new EE planning, budget, and review processes adopted by the *Decision re Energy Efficiency Goals for 2016 and Beyond and Energy Efficiency Rolling Portfolio Mechanics*, D.15-10-028.

This filing complies with the annual process for submission, review, and resolution of management fees and incentive award claims established in the ESPI Decision.⁵ While the previous filing schedule has been replaced by the "ESPI Revised Timelines" presented in D.15-10-028 Appendix 5, the ESPI awards are still categorized the same way. One award is authorized the year following a program year (PY+1) that includes the ex-ante portion of ESPI category A (EE Resource Savings), and all of categories B (Ex-Ante Performance Review), C (Codes and Standards Program Management Fee), and D (Non-Resource Program Management Fee). Another award is authorized two years following a program year (PY + 2) for the remainder of category A (EE Resource Savings) that is required to be verified after installation/implementation (ex-post.)

In the following sections, PG&E presents its request for 2017 PY+2 and 2018 PY+1 ESPI incentives and adjustments to account for the Commission's Utility Audit, Finance and Compliance Branch (UAFCB) 2017 EE Audit.

III. 2017 PY+2 Incentive Calculation

A. EE Resource Savings: Ex-Post Savings Award

The 2017 ESPI Savings Performance Statement provides the Commission Staff's recommended earnings for each IOU for 2017 PY+2 Custom and Deemed Uncertain Measures and a true-up of 2017 PY+1 Deemed Not Uncertain Measures. The Performance Statement also includes the award for amount for the 2016 Home

⁵ D.13-09-023, Attachment 6.

Energy Reports (HER) Savings Earnings which were not available at the time for inclusion into the 2018 ESPI award.

The 2017 PY+2 incentive consists of the portion of ESPI category A that requires ex-post verified savings and any true-ups associated with 2017 PY+1 ex-ante resource savings preliminary estimate. PG&E incorporated the proposed 2017 ex-post earnings and HER Savings Earnings and the ex-ante adjustments applicable to PG&E as described in the Final 2017 ESPI Savings Performance Statement. Table 2 and 3 below summarizes the key components to the final proposed 2017 PY+2 ESPI Award.

Table 2 – 2017 PY+2 Ex-Post Net Lifecycle Savings

PG&E	Electric (GWh)	Demand (MW)	Natural Gas (MMTherms)	Total
2017 Ex Ante Claims as Submitted for Custom and Uncertain Deemed	3,058.82	578.71	100.11	
2017 Total Ex-Post Net Lifecycle Savings	2,729.42	466.84	64.44	
2017 Earnings Rate	\$2,368	\$7,549	\$25,106	
Total 2017 PY+2 Incentive				\$11,605,194
2016 HER Evaluated Savings Earnings				\$728,775
Total Evaluated Savings Incentive				\$12,333,969

Table 3 – 2016 PY+2 Ex-Ante Deemed Not Uncertain Savings Incentive Earnings Adjustment

PG&E	2017 Deemed Not Uncertain Payment
Preliminary Estimate*	\$1,708,915
Ex-Post Reconciliation*	\$1,700,648
True-Up Adjustment	-\$8,267

*Values in these rows are excerpted directly from Appendix A of the Final 2017 ESPI Performance Statement Report.

IV. 2018 PY+1 Incentive Calculation

The 2018 PY+1 incentive includes the ex-ante portion of ESPI category A, and all components of categories B, C, and D. Each component is analyzed in the sections below according to its respective ESPI category.

The Energy Division provided guidelines for the 2019 ESPI advice letter submission⁶ that includes a template for (a) summarizing the 2017 PY+1 Preliminary Savings estimate, and (b) detailed instructions for cost reporting for the EAR Performance Award. These templates are provided as Appendix A and Appendix B to this report respectively.

A. EE Resource Savings: Preliminary Ex-Ante Savings Award

For the purpose of determining the PY+1 Ex-Ante Savings award, PG&E calculated the award request using the savings values from PG&E's 2018 Annual Report downloaded from CEDARS. Only savings from projects installed in 2018 were included. Net lifecycle savings were multiplied by the coefficients as described in D.13-09-023, Attachment 1, Table 3, and updated for 2019 using the Coefficients and Caps in the joint IOU Advice Letter 5324-E /3989-G submitted on July 26, 2019.

Table 4 includes the total gross and net lifecycle savings, the savings coefficients, and PG&E's requested award.

Table 4 – Preliminary Ex-Ante Savings

ESPI Component	Lifecycle Savings	Unit	Multiplier per Unit	Award Amount
Ex-Ante EE Resource Savings (Net lifecycle, including spillover)	336.86	GWh	\$2,731	\$919,978
	55.86	MW-yr	\$6,953	\$388,360
	26.57	MMThm	\$20,231	\$537,512
Total Preliminary Ex-Ante Award Request				\$1,845,850.80

B. Ex-Ante Review Performance Award

The ex-ante review (EAR) performance component of the incentive mechanism is calculated based on the annual performance score for each IOU as prescribed in Attachments 5 and 7 of D.13-09-023. This score is taken as a percentage applied to a cap of 3% of EE resource program expenditures, not to exceed authorized expenditures exclusive of administrative expenses.⁷ On March 27, 2019 the Energy

⁶ <http://www.cpuc.ca.gov/WorkArea/DownloadAsset.aspx?id=6442457648>

⁷ D.13-09-023, OPs 3 and 14.

Division issued a memo containing a 2017 EAR performance score for PG&E of 75.77.⁸

Table 5 summarizes the total 2018 PG&E eligible resource program expenditures (excluding administrative expenses), consistent with the expense reporting shown in Appendix B, as well as the EAR award component cap and PG&E's requested award.

Table 5 – EAR Performance Award

ESPI Component	Component Cap	PY Eligible Expenditure	Multiplier	EAR Score	Calculated Award Amount	Award Amount
2018 PY+1 EAR	\$8,437,699	\$222,816,694	3%	75.77	\$5,064,846	\$5,064,846
EAR Performance Award Request						\$5,064,846

C. Codes and Standards Program Management Fees

The Codes and Standards (C&S) program component of the ESPI incentive mechanism is calculated as a management fee equal to 12% of C&S program expenditures, not to exceed authorized expenditures for these programs (excluding administrative costs).⁹ Table 6 summarizes the total 2018 PG&E eligible C&S program expenditures (excluding administrative expenses), consistent with the detailed expense reporting shown in Appendix B, as well as the C&S award component cap, and PG&E's requested award.

Table 6 – Codes and Standards

ESPI Component	Component Cap	PY Eligible Expenditure	Multiplier	Calculated Award Amount	Capped Award Amount
2018 PY+1 Codes and Standards	\$1,868,921	\$17,209,017	12%	\$2,065,082	\$1,868,921
Codes and Standards Program Management Fee Request					\$1,868,921

D. Non-Resource Program Management Fees

The Non-Resource program component of the ESPI incentive mechanism is calculated as a management fee equal to 3% of non-resource program expenditures,

⁸ Commission Staff memo to PG&E; Subject: 2018 Efficiency Savings and Performance Incentive (ESPI) Performance Scores. This document is available at deeresources.com.

⁹ D.13-09-023 OP3 and OP15.

not to exceed authorized expenditures for these programs (excluding administrative costs).¹⁰

Table 7 summarizes the total 2018 PG&E eligible Non-Resource program expenditures (excluding administrative expenses), consistent with the expense reporting shown in Appendix B, as well as the Non-Resource award component cap and PG&E's requested award.

Table 7 – Non-Resource Component

ESPI Component	Component Cap	PY Eligible Expenditure	Multiplier	Calculated Award Amount	Award Amount
2018 PY+1 Non-Resource	\$772,894	\$15,874,499	3%	\$476,235	\$476,235
Non-Resource Program Management Fee Request					\$476,235

V. Utility Audit, Finance and Compliance Branch 2017 EE Audit True Ups

In 2018, the Commission's Utility Audit, Finance and Compliance Branch (UAFCB) examined PG&E's financial, management, regulatory, and compliance areas of EE programs for the 2017 Program Year and issued a memorandum that included findings and recommendations impacting the ESPI award calculation¹¹. The UAFCB audit for PY2017 has been divided into two parts. The first part of the audit which covers Codes & Standards and the Non-Resource programs was published August 5, 2019. The second part which covers the Resource programs, and affects the EAR component of the ESPI award, is ongoing and expected to be issued after the filing date of this advice letter.

The 2017 audit results of the Codes & Standards and Non-Resource programs identified shifts of funds but no net change to expenditures, therefore the true-up values net to zero. The details on the shifts are:

- **Non-Resource:** A shift of \$77,008.79 from 2016 into 2017 for a net effect of 0.
- **Codes and Standards:** A shift of \$55,256.19 out of 2016, \$76,631.48 out of 2017 and \$131,887.67 into 2018 for a net effect of 0.

Table 8 provides detail on the ESPI incentives and adjustments to account for the Codes & Standards and the Non-Resource programs portion of the UAFCB 2017 EE Audit.

¹⁰ D.13-09-023 OP3 and OP16.

¹¹ CPUC Report dated August 5, 2019: Energy Efficiency Examination, Pacific Gas And Electric Company Program Year 2017.

Table 8 – UAFCB True-Up

ESPI True-Up Component	Audit PY Expenditure Correction	Multiplier	Award True Up Amount
2018 EAR	TBD	3%	TBD
2018 C&S	\$131,888	12%	\$15,827
2018 Non-Resource	\$0	3%	\$0
2018 True Up Subtotal			\$15,827
2017 EAR	TBD	3%	TBD
2017 C&S	-\$76,631	12%	-\$9,196
2017 Non-Resource	\$77,009	3%	\$2,310
2017 True Up Subtotal			-\$6,886
2016 EAR	TBD	3%	TBD
2016 C&S	-\$55,256	12%	-\$6,631
2016 Non-Resource	-\$77,009	3%	-\$2,310
2016 True Up Subtotal			-\$8,941
Total UAFCB PY2017 EE Audit True Up			\$0

VII. Cost Recovery

Upon approval of this advice letter, PG&E will record the approved award amount to the Customer Energy Efficiency Adjustment balancing accounts allocating 76% to electric and 24% to gas according to the 2019 electric and gas net benefit split approved by disposition of PG&E's 2019 EE budget advice letter¹² for recovery in rates through the next Annual Electric True-up and Public Purpose Program Gas Surcharge advice letters, respectively.

VIII. Protests

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than September 23, 2019 which is 20 days after the date of this submittal. Protests must be submitted to:

¹² The CPUC approved PG&E advice letter 4011-G-B/5375-E-B on April 2, 2019.

CPUC Energy Division
ED Tariff Unit
505 Van Ness Avenue, 4th Floor
San Francisco, California 94102
Facsimile: (415) 703-2200
E-mail: EDTariffUnit@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above. The protest shall also be sent to PG&E either via E-mail or U.S. mail (and by facsimile, if possible) at the address shown below on the same date it is mailed or delivered to the Commission:

Erik Jacobson
Director, Regulatory Relations
c/o Megan Lawson
Pacific Gas and Electric Company
77 Beale Street, Mail Code B13U
P.O. Box 770000
San Francisco, California 94177
Facsimile: (415) 973-3582
E-mail: PGETariffs@pge.com

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

Effective Date

PG&E respectfully requests that this Tier 3 advice letter be approved no later than December 19, 2019, to allow PG&E to record this amount in electric and gas rates through the Annual Electric and Gas True-Up advice letters for rates effective January 1, 2020.

/S/

Erik Jacobson
Director, Regulatory Relations

Attachments

cc: Service Lists: R.13-11-005, A.17-01-013 et al.



ADVICE LETTER SUMMARY

ENERGY UTILITY



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

Company name/CPUC Utility No.: Pacific Gas and Electric Company (ID U39M)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Yvonne Yang

Phone #: (415)973-2094

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: Yvonne.Yang@pge.com

EXPLANATION OF UTILITY TYPE

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

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 4137-G/5628-E

Tier Designation: 3

Subject of AL: Request of Pacific Gas and Electric Company for 2017 and 2018 Energy Efficiency Incentive Award

Keywords (choose from CPUC listing): Compliance, Energy Efficiency

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.15-10-028

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

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

Confidential treatment requested? Yes No

If yes, specification of confidential information:

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

Resolution required? Yes No

Requested effective date: 12/19/19

No. of tariff sheets: 0

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

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

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

Tariff schedules affected:

Service affected and changes proposed¹: N/A

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

¹Discuss in AL if more space is needed.

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

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

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

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

Advice 4137-G/5628-E
September 3, 2019

Attachment 1
List of Appendices

ATTACHMENT 1

LIST OF APPENDICES

The appendices listed below will be available on PG&E's website by the close of business 9/3/2019.

Or the documents can be accessed as follows:

- 1) Go to: <https://pgera.azurewebsites.net/Regulation/search>
- 2) Click on "Search" under Public Case Documents"
- 3) Select "Energy Efficiency 2015 and Beyond Rolling Portfolios" from the dropdown menu
- 4) Select "PGE" under Party and "9/3/2019" under Date to narrow the search criteria

Click "Search"

APPENDIX A (accessible via directions above):

- Tab 1 – ESPI_Ex Ante Savings: Ex-Ante claims from 2018
- Tab 2 – Pre-2018 Custom Claims: Claims with corrected installation date
- Tab 3 – Notes: Description of corrections

APPENDIX B (directly attached as a PDF; workbook version accessible via directions above):

- ESPI Program Expenditures: Program Expenditures from 2018

Appendix B
Program Expenditures

Appendix B

Table 1

IOU	Program ID (Use Drop Down Menu)	Program Name (Use Drop Down Menu)	ESPI Program Category (Use Drop Down Menu)	Authorized/Forecasted Budget		Total 2018 Program Expenditures (from all budget-year funding sources)													EM&V ELW	Costs Recovered from Other Sources	Out-of-Budget Financing
				2018 Adopted Budget [1]	2018 Administrative Cost (forecasted as per budget ALS)	Administrative Cost			Marketing	Direct Implementation Non-Incentive				Direct Implementation Incentives & Rebates							
				(B: 01-05-04; DMM:K0: 0-16-000; SA: 0-16-11-022 & 0-17-12-000)		Admin/Overhead And/CA	Admin/Other	Incentives/Rebates User/Incentive	Marketing Outreach	DI/Installation	DI/Hardware And/Materials	DI/Rebate/Inspection	Enduser Rebate	Incentive TO/Other	Direct/Rebate at	Direct/Rebate Use					
IOU/PA Programs																					
PGE	PGE21001	Residential Energy Advisor	Resource	14,692,263	1,067,261	353,834	951,225				1,431,736	4,798,385	-	-	-	8,735,000	-	-	-		
PGE	PGE210010	Pay for Performance Pilot	Resource	753,726	171,736	8,412	11,234				75	1,001,418	-	-	-	-	-	-	-		
PGE	PGE21002	Residential Energy Efficiency	Resource	10,600,377	772,117	413,020	505,206				1,262,258	2,768,687	-	-	-	4,731,672	-	-	-		
PGE	PGE21003	Multifamily Energy Efficiency	Resource	6,779,725	37,526	4,389	1,911				1,215	2,097,180	-	-	-	1,983,424	-	-	-		
PGE	PGE21004	Energy Upgrade California	Resource	10,707,759	888,820	333,654	565,299				77,782	4,015,896	-	-	-	6,195,357	-	-	-		
PGE	PGE21005	Residential New Construction	Resource	6,770,695	383,143	137,394	224,274				45,683	1,220,487	-	-	-	5,334,017	-	-	-		
PGE	PGE21006	Residential HVAC	Resource	5,318,382	593,571	216,708	365,877				57,908	3,485,365	-	-	-	3,124,387	-	-	-		
PGE	PGE21011	Commercial Calculated Incentives	Resource	23,262,758	1,301,439	786,834	1,269,312				742,429	7,446,305	-	-	-	3,654,894	-	-	-		
PGE	PGE21012	Commercial Deemed Incentives	Resource	19,367,904	1,283,904	783,165	1,161,377				2,017,621	3,980,490	-	-	-	10,081,627	-	-	-		
PGE	PGE21013	Commercial Continuous Energy Improvement	Non-Resource	240,150	52,710	9,508	24,526				4,042	18,386	-	-	-	-	-	-	-		
PGE	PGE21014	Commercial Energy Advisor	Resource	2,123,638	287,131	117,776	191,279				351,818	1,001,321	-	-	-	-	-	-	-		
PGE	PGE21015	Commercial HVAC	Resource	10,626,958	998,815	422,808	616,591				257,315	5,240,531	-	-	-	10,336,317	-	-	-		
PGE	PGE211025	Savings by Design (SBD)	Resource	9,111,221	383,253	170,919	246,954				26,028	1,024,156	-	-	-	2,260,249	-	-	-		
PGE	PGE21021	Industrial Calculated Incentives	Resource	12,115,800	572,665	415,227	554,586				182,535	2,397,706	-	-	-	563,414	-	-	-		
PGE	PGE21022	Industrial Deemed Incentives	Resource	4,157,505	125,406	24,441	32,983				1,100	510,769	-	-	-	660,483	-	-	-		
PGE	PGE21023	Industrial Continuous Energy Improvement	Non-Resource	67,233	30,201	110	55				728	3,088	-	-	-	-	-	-	-		
PGE	PGE21024	Industrial Energy Advisor	Resource	597,692	89,305	5,682	13,956				728	118,017	-	-	-	-	-	-	-		
PGE	PGE21030	Industrial Strategic Energy Management	Resource	1,217,158	133,082	15,802	171,278				77,135	292,491	-	-	-	24,000	-	-	-		
PGE	PGE21031	Agricultural Calculated Incentives	Resource	9,155,062	335,388	225,666	212,421				460,814	1,355,355	-	-	-	1,031,476	-	-	-		
PGE	PGE21032	Agricultural Deemed Incentives	Resource	4,758,784	353,499	160,813	305,653				21,012	660,949	-	-	-	2,212,467	-	-	-		
PGE	PGE21033	Agricultural Continuous Energy Improvement	Non-Resource	67,740	30,708	1,574	5,254				-	(2,935)	-	-	-	-	-	-	-		
PGE	PGE21034	Agricultural Energy Advisor	Resource	3,262,739	340,081	226,366	93,910				76,028	1,434,143	-	-	-	481,146	-	-	-		
PGE	PGE21041	Primary Lighting	Resource	10,711,690	693,380	228,537	464,852				239,294	610,824	-	-	-	8,265,763	-	-	-		
PGE	PGE21042	Lighting Innovation	Non-Resource	357,652	28,217	16,105	1,911				167,548	193,422	-	-	-	4,950	-	-	-		
PGE	PGE21043	Lighting Market Transformation	Non-Resource	61,733	13,886	985	3,089				-	60,554	-	-	-	-	-	-	-		
PGE	PGE21051	Building Codes Advocacy	C&S	4,331,109	153,321	153,939	141,340				-	2,831,023	-	-	-	-	-	-	-		
PGE	PGE21052	Appliance Standards Advocacy	C&S	4,774,497	216,779	230,695	196,480				-	6,240,676	-	-	-	-	-	-	-		
PGE	PGE21053	Compliance Improvement	C&S	4,044,129	155,094	128,890	143,264				-	3,939,774	-	-	-	-	-	-	-		
PGE	PGE21054	Reach Codes	C&S	604,747	18,575	11,967	2,121				-	585,611	-	-	-	-	-	-	-		
PGE	PGE21055	Planning and Coordination	C&S	650,922	17,790	14,634	1,866				5,573	1,625,649	-	-	-	-	-	-	-		
PGE	PGE21056	Code Readiness	C&S	1,778,436	47,940	25,192	4,453				-	1,980,711	-	-	-	-	-	-	-		
PGE	PGE21061	Technology Development Support	Non-Resource	942,398	49,898	13,749	6,316				-	525,864	-	-	-	-	-	-	-		
PGE	PGE21062	Technology Assessments	Non-Resource	1,929,215	89,661	69,023	51,627				84	650,875	-	-	-	-	-	-	-		
PGE	PGE21063	Technology Introduction Support	Non-Resource	2,758,363	142,969	92,361	160,701				28,886	1,120,750	-	-	-	-	-	-	-		
PGE	PGE21064	BE Water-Energy Nexus AMI Pilot	Non-Resource	-	-	-	-				-	-	-	-	-	-	-	-	-		
PGE	PGE21071	Integrated Energy Education and Training	Non-Resource	8,564,820	311,980	389,919	268,863				198,954	5,993,236	-	-	-	-	-	-	-		
PGE	PGE21072	Connections	Non-Resource	1,900,879	46,781	20,264	5,926				-	1,317,623	-	-	-	-	-	-	-		
PGE	PGE21073	Strategic Planning	Non-Resource	572,481	21,847	19,266	-				-	178,439	-	-	-	-	-	-	-		
PGE	PGE21081	Statewide DSM Coordination & Integration	Non-Resource	547,921	62,516	17,333	7,644				-	159,997	-	-	-	-	-	-	-		
PGE	PGE21091	On-Bill Financing (excludes Loan Pool)	Resource	3,141,013	957,608	260,650	205,106				527,694	1,700,026	-	-	-	-	-	-	-		
PGE	PGE210911	On-Bill Financing Alternative Pathway	Resource	357,454	152,707	18,092	3,202				-	-	-	-	-	-	-	-	-		
PGE	PGE21092	Third-Party Financing	Resource	660,195	151,707	26,624	63,494				180,763	90,300	-	-	-	-	-	-	-		
PGE	PGE21093	New Financing Offerings	Resource	-	-	46,590	5,533				456,059	1,344,107	-	-	-	-	-	-	-		
Local Government Partnership Programs																					
PGE	PGE2110011	California Community Colleges	Resource	4,448,702	265,501	35,477	39,787				94	1,158,929	-	-	-	608,424	-	-	-		
PGE	PGE2110012	University of California/California State University	Resource	4,703,997	616,971	254,363	573,862				38,116	333,843	-	-	-	278,518	-	-	-		
PGE	PGE2110013	State of California	Resource	1,005,394	103,756	3,065	(102,506)				(76)	203,302	-	-	-	81,517	-	-	-		
PGE	PGE2110014	Department of Corrections and Rehabilitation	Resource	1,677,562	197,120	6,780	(63,892)				(16)	217,529	-	-	-	416,416	-	-	-		
PGE	PGE2110051	Local Government Energy Action Resources (LGEAR)	Resource	6,059,173	768,981	354,928	689,020				52,643	1,055,373	-	-	-	213,240	-	-	(44,473)		
PGE	PGE2110052	Strategic Energy Resources	Non-Resource	9,632,258	1,271,346	324,097	1,072,141				87,489	4,953,953	-	-	-	-	-	-	-		
PGE	PGE211007	Association of Monterey Bay Area Governments (AMBAG)	Resource	3,744,061	456,425	80,516	304,735				346,503	1,623,909	-	-	-	52,912	-	-	1,365,455		
PGE	PGE211009	East Bay	Resource	6,129,105	709,863	243,781	746,426				111,858	1,867,591	-	-	-	185,962	-	-	1,380,877		
PGE	PGE211010	Fresno	Resource	2,648,728	261,008	41,256	99,083				92,468	758,471	-	-	-	100,373	-	-	717,735		
PGE	PGE211011	Kern	Resource	2,725,208	283,746	41,064	93,665				70,400	854,472	-	-	-	40,750	-	-	1,135,050		
PGE	PGE211012	Madera	Resource	363,621	42,158	2,788	10,816				10,032	98,451	-	-	-	-	-	-	82,971		
PGE	PGE211013	Marin County	Resource	1,271,550	145,216	5,837	65,809				32,151	250,516	-	-	-	36,147	-	-	252,805		
PGE	PGE211014	Mendocino/Lake County	Resource	711,132	85,088	2,778	37,559				31,937	304,711	-	-	-	15,790	-	-	174,749		
PGE	PGE211015	Napa County	Resource	557,007	61,053	1,638	2,886				7,420	126,551	-	-	-	18,569	-	-	105,499		
PGE	PGE211016	Redwood Coast	Resource	1,598,179	197,242	6,264	65,073				37,251	447,439	-	-	-	10,747	-	-	562,216		
PGE	PGE211018	San Luis Obispo County	Resource	1,076,601	137,785	3,747	44,724				23,461	426,676	-	-	-	1,230	-	-	171,309		
PGE	PGE211019	San Mateo County	Resource	2,279,756	287,349	9,826	57,654				122,193	762,073	-	-	-	140,660	-	-	413,775		
PGE	PGE211020	Santa Barbara	Resource	1,008,901	104,759	5,772	20,245				24,229	227,379	-	-	-	15,210	-	-	161,127		
PGE	PGE211021	Sierra Nevada	Resource	2,422,994	258,659	24,683	95,283				39,885	489,066	-	-	-	104,720	-	-	262,172		
PGE	PGE211022	Sonoma County	Resource	1,756,500	186,400	8,933	100,378				62,571	837,587	-	-	-	545,570	-	-	836,139		
PGE	PGE211023	Silicon Valley	Resource	3,762,183	438,402	140,792	1,666,555				197,850	1,666,555	-	-	-	194,106	-	-	1,110,250		
PGE	PGE211024	San Francisco	Resource	6,315,409	772,901</																

PGE	PGE21009	Direct Install for Manufactured and Mobile Homes	Resource	5,242,617	392,059	155,023	1,010,121		696,673	1,049,033	-	-	-	(370,192)	-	4,199,721	-	
PGE	PGE210112	School Energy Efficiency	Resource	2,971,983	150,425	16,675	46,758		54,355	1,151,809	-	-	-	217,106	-	1,376,594	-	
PGE	PGE210115	RightLights	Resource	-	-	16	-		-	148	-	-	-	-	-	-	-	
PGE	PGE210119	LED Accelerator	Resource	2,995,445	342,989	120,047	198,689		27,064	516,791	-	-	-	389,248	-	-	-	
PGE	PGE210123	Healthcare Energy Efficiency Program	Resource	2,244,672	161,687	-	3,969		47,638	449,549	-	-	-	281,141	-	-	-	
PGE	PGE210139	SEI Energize Schools Program	Non-Resource	216,125	43,617	950	19,828		7,947	200,619	-	-	-	-	-	-	-	
PGE	PGE210143	Hospitality Program	Resource	12,626,882	1,991,108	268,604	1,550,209		636,501	4,419,923	-	-	-	314,939	-	4,180,189	-	
PGE	PGE21018	EnergySmart Grocer	Resource	6,672,373	545,482	206,321	452,025		246,456	4,641,904	-	-	-	3,212,328	-	-	-	
PGE	PGE210135	Water Infrastructure and System Efficiency	Resource	2,327,364	181,597	24,229	50,598		258	1,425,001	-	-	-	573,898	-	-	-	
PGE	PGE210210	Industrial Recommissioning Program	Resource	2,245,631	191,089	4,525	37,398		63,720	324,871	-	-	-	397,652	-	-	-	
PGE	PGE210211	Light Industrial Energy Efficiency	Resource	546,368	92,552	2,491	4,887		9,864	34,137	-	-	-	7,522	-	-	-	
PGE	PGE210212	Compressed Air and Vacuum Optimization Program	Resource	270,590	51,859	5,293	52,583		31,440	547,604	-	-	-	927,280	-	-	-	
PGE	PGE210213	Small Petrochemical Energy Efficiency	Resource	714,660	97,633	2,631	10		25,459	87,096	-	-	-	3,690	-	-	-	
PGE	PGE21025	California Wastewater Process Optimization	Resource	1,227,756	84,518	502	48,602		42,433	333,871	-	-	-	179,565	-	-	-	
PGE	PGE21026	Energy Efficiency Services for Oil Production	Resource	3,737,735	358,616	137,815	242,478		160,944	703,503	-	-	-	373,486	-	-	-	
PGE	PGE21027	Heavy Industry Energy Efficiency Program	Resource	13,179,841	1,304,837	549,499	1,288,305		542,877	4,243,776	-	-	-	1,806,490	-	-	-	
PGE	PGE21029	Refinery Energy Efficiency Program	Resource	1,666,727	160,069	3,334	757		(84)	38,480	-	-	-	-	-	-	-	
PGE	PGE210311	Process Wastewater Treatment EM Pgm for Ag Food Processing	Resource	988,763	85,829	6,122	859		4,020	81,606	-	-	-	4,500	-	-	-	
PGE	PGE210312	Dairy and Winery Industry Efficiency Solutions	Resource	3,350,121	333,458	108,237	182,503		22,450	436,699	-	-	-	304,628	-	-	-	
PGE	PGE21036	Industrial Refrigeration Performance Plus	Resource	692,777	147,568	3,925	3,562		7,372	62,207	-	-	-	319,817	-	-	-	
PGE	PGE21039	Comprehensive Food Process Audit & Resource Efficiency Pgm	Resource	3,558,046	597,347	224,244	475,316		132,057	1,109,322	-	-	-	393,456	-	-	-	
Subtotal (ESPI-eligible)				352,460,723	29,866,612	10,253,084	20,676,678			14,124,311	124,797,637				82,893,905		33,849,569	

Table 2

PGE		REN/CCA		31,842,708	-		298,487		392,343	17,620,809						503,938					
PGE	PGE_EMV	EM&V - IOU		4,193,300	-		-		-	-						3,677,023					
PGE	PGE_EMV	EM&V - CPUC Staff		11,055,064	-		-		-	-						4,327,420					
Total EE Portfolio Budget/Expenditures*				399,551,795	29,866,612	10,253,084	20,975,165			14,516,654	142,418,447					82,893,905		33,849,569		8,508,381	

* Sum of Table 1 Subtotal (ESPI-eligible) row and Table 2 rows

Table 3

PGE	PGE21091LP	OBf Loan Pool		13,500,000																	15,952,043	
PGE	PGE_SWME0	Statewide ME&O (energy efficiency portion only)		6,840,979					8,752,314													8,752,314
PGE	PGE_ESA	Energy Savings Assistance Program (ESA)		161,715,692																		124,956,059
PGE		2018 ESPI Incentive Award																				12,051,754
Total Reported in CEDARS**				581,608,465	29,866,612	10,253,084	20,975,165			23,268,968	142,418,447					82,893,905		33,849,569		8,508,381	145,760,127	15,952,043

** Sum of Table 2 Total EE Portfolio Budget/Expenditures row and Table 3 rows

[1] The 2018 Adopted Budget for Energy Efficiency represents PG&E's 2018 CEDARS filing budget at the subprogram level detail, and BayREN and MCE's approved budgets per the Business Plan Decision D.18-05-041. This budget is lower than PG&E's 2018 portfolio budget of \$416,713,780, also approved in D.18-05-041. Subprogram level detail is unavailable in the approved Business Plan budget. The 2017-2019 Statewide ME&O budget was authorized in D.16-09-020 and Advice Letter 3783-G/4963-E effective November 28, 2016. On January 4, 2019, the 2018 ESA budget was approved in AL 3990-G/5329-E and supplemental ALs, pursuant to D.16-11-022 and D.17-12-009. The associated employee benefits costs were approved in the GRC (D.17-05-013), Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, dated May 11, 2017.

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

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